UNITED STATES DISTRICT COURT FOR THE DISTRICT OF COLUMBIA

HISTORY ASSOCIATES INCORPORATED,

Plaintiff,

v.

Case No. 1:24-cv-1858-ACR

U.S. SECURITIES AND EXCHANGE COMMISSION,

Defendant.

JOINT STATUS REPORT

Plaintiff, History Associates Incorporated, and Defendant, the U.S. Securities and Exchange Commission, hereby submit this joint status report. On November 8, 2024, this Court ordered the SEC to respond to two prioritized subparts of one of History Associates' FOIA requests at issue in this case. History Associates believes that the SEC has failed to conduct an adequate search and has arbitrarily deemed as non-responsive documents that in fact are responsive. History Associates asks the Court to order the SEC to complete its search and production in response to the two prioritized subparts no later than within 14 days. The SEC believes that it conducted adequate searches for the two narrowed subparts of the FOIA request and applied a reasonable responsiveness criteria based on the November 8, 2024 hearing with the Court. The SEC has asked History Associates to work with the SEC to resolve its concerns, but History Associates has not done so. The SEC believes that the parties should try to work together to seek to identify the remaining records that are responsive to the FOIA request that History Associates seeks and to agree on a reasonable release schedule.

The parties also are negotiating additional document productions and propose to file another joint status report in one week.

History Associates' Position

Background

This case involves three FOIA requests submitted by History Associates. The SEC denied the requests and withheld records under Exemption 7(A). After History Associates filed this suit, the SEC informed History Associates that, in light of intervening developments since the SEC's responses to the FOIA requests, some or all of the withheld documents might no longer be exempt under Exemption 7(A) but might be exempt under other FOIA provisions that the SEC had not yet considered. The SEC told History Associates that it would take approximately three years before the agency could begin to reprocess History Associates' requests. *See* ECF 19. History Associates sought leave to file a motion for partial summary judgment to challenge the SEC's assertion of Exemption 7(A) as to a prioritized subset of responsive records. *Id.* The SEC opposed History Associates' request and sought to file a motion for an *Open America* stay. ECF 20.

At a pre-motion conference on November 8, the Court directed the SEC, as an initial step, to process two subparts of one of the FOIA requests at issue: (1) all documents and communications that SEC Chair Gary Gensler sent, received, or considered concerning Ethereum's shift to a proof-of-stake mechanism, and (2) all documents and communications sent by the SEC to third parties regarding Ethereum's shift to a proof-of-stake mechanism. ECF 24-1 at 14-16. The Court directed the SEC to release all responsive, non-exempt records and a *Vaughn* index of any withheld records within 60 days. *Id.* at 16, 18. History Associates stated, *id.* at 15-16, and the Court confirmed, *id.* at 16-17, that the prioritized processing of these initial subsets of records is without prejudice to the remainder of records responsive to History Associates' FOIA requests. The SEC agreed that this approach was "workable." *Id.* at 16, 18. At the Court's direction, History Associates sent the SEC a letter that same day memorializing the Court's instructions. ECF 21-1. The SEC did not dispute or seek clarification of that letter's recital of the Court's directions.

On December 27, the Court granted the SEC's motion for a three-week extension of its production deadline, to January 28. December 27, 2024 Minute Order. The SEC made a partial production on January 7 and produced two *Vaughn* indices describing documents it withheld. Exhibit A (SEC Response and Production); Exhibit B (SEC *Vaughn* Indices). In total, the SEC produced forty partially redacted documents (mostly subpoenas) and withheld twelve sets of documents. The same day, the parties submitted a joint status report and proposed to submit a further joint status report on February 4. ECF 25.

On January 28, the SEC made a second production and produced two more *Vaughn* indices. Exhibits C-D (SEC Response and Production); Exhibit E (SEC *Vaughn* Indices). In total, the SEC produced eight partially redacted documents (mostly third-party reports and emails) and withheld seven sets of documents.

In the cover email accompanying that production, the SEC stated, for the first time, that it "deemed as responsive" to the prioritized subparts of History Associates' request only "the records that more substantively discussed Ethereum's shift to a proof-of-stake mechanism." Exhibit F. The SEC further stated that, based on the SEC's "understanding that Plaintiff seeks narrow groups of records in subparts 1 and 2, [it] deemed as not responsive records that mentioned that the shift had occurred or would occur but focused on other subjects." *Id*.

On January 29, History Associates emailed the SEC stating that, in light of the SEC's description of the records it deemed not responsive, it appeared that the SEC had improperly limited its production and thereby failed to comply with this Court's directions. Exhibit F. History Associates asked the SEC to confirm that it will not produce the documents concerning Ethereum's shift that it had withheld and to identify the volume of withheld documents. *Id.* History Associates

also asked the agency whether it had instituted a litigation hold and posed several specific questions about the scope and methods of the SEC's searches for responsive records, including which keywords the agency used and whether the agency searched collaboration platforms such as Microsoft Teams. *Id*.

On January 31, the SEC responded that it "disagree[d] that we have 'improperly limited' our production." Exhibit F (citing ECF 24-1 at 18). The SEC stated that the Court ordered the agency to produce only an "initial, small subset of things" and instructed the parties to "figure out some way to get [Plaintiff] what [it] wants without having to look at every document ever created on this issue." Exhibit F (quoting ECF 24-1 at 17, 18). The SEC did not identify the volume of documents it withheld as not responsive. The SEC explained its search methods but did not address whether it had searched collaboration platforms such as Microsoft Teams.

The SEC Should Complete Its Search And Production

The SEC has dragged its feet enough in this case. The agency already has admitted that it failed to conduct *any* document-by-document review, as FOIA requires, before denying History Associates' initial requests a year-and-a-half ago—a failure that defies explanation. *See, e.g.*, ECF 24-1 at 4, 10. And now, after the Court crafted a practical solution to accommodate the SEC's claimed burdens and resource constraints—affording it 60 days to process these first two subparts, which the Court later extended by three weeks—the SEC announced after the fact that it still cut corners by failing to conduct a proper search and holding back records it has found and evidently reviewed based on its own subjective belief of what information History Associates really needs. The Court should order the agency, no later than within 14 days, to promptly conduct a comprehensive search and complete the initial production ordered at the November 8 hearing, including

records it found that it deemed not responsive based on its own unilateral narrowing of the relevant subset.

The two initial subsets of records that the Court directed the SEC to process (and that the SEC agreed to address) were straightforward. As memorialized in History Associates' November 8 letter, the SEC would process: "(1) *all* documents and communications that SEC Chair Gary Gensler sent, received, or considered concerning Ethereum's shift to a proof-of-stake mechanism, and (2) *all* documents and communications sent by the SEC to third parties regarding Ethereum's shift to a proof-of-stake mechanism." ECF 21-1 (emphases added). The SEC never disputed that description nor sought clarification of those subsets. Yet its January 28 production revealed that it has failed to search for and process all records in those subsets in two key respects: (1) it failed to conduct a comprehensive search for responsive records; and (2) even within the narrowed universe of documents it identified based on its inadequate search, the agency withheld responsive documents based on unwarranted limitations it unilaterally imposed (but never communicated) on the scope of History Associates' request.

Inadequate search. The SEC's search for responsive documents was inadequate. The agency limited its search to emails; it apparently searched no collaboration platforms (such as Microsoft Teams) or other databases. And the agency's keyword searching of its emails was arbitrary and incomplete: The SEC searched only for documents containing "proof-of stake" and "Ethereum" (or, for the first subset only, "ETH"). Exhibit F. The agency appears not to have searched for many of the commonly used terms related to "proof-of stake" (e.g., "PoS," "the merge," "EIP-3675") or Ethereum (i.e., "Ether" or, for the second subset, "ETH"). Thus, if an SEC email discussed the "Ethereum merge," for example, but did not explicitly say the word "proof-of-stake," it would not have been captured by the SEC's search.

The SEC is aware of these terms; its own subpoenas it produced in this litigation use the terms repeatedly. *See, e.g.*, Exhibit A at 12 ("ETH' means Ether or the native crypto asset for the Ethereum blockchain network."); *id.* ("The Merge' or 'Ethereum 2.0' means the transition by the Ethereum blockchain ... to proof-of-stake."). The SEC cannot skim the surface under FOIA while it boils the ocean in advancing its own regulatory agenda. Instead, the agency had an obligation to search for those readily apparent cognate terms in performing searches in response to History Associates' request. *See, e.g., Inst. for Just. v. Internal Revenue Serv.*, 941 F.3d 567, 569-70 (D.C. Cir. 2019) ("An agency fulfills its obligations under FOIA if it can demonstrate beyond material doubt that its search was reasonably calculated to uncover all relevant documents." (internal citations and quotations removed)).

Incomplete Production. Perhaps even more alarmingly, even with respect to the records that its searches uncovered, the SEC improperly "deemed as not responsive" and withheld documents that the Court directed it (and the agency agreed) to produce, based on an arbitrary and unwarranted misreading of History Associates' request. Exhibit F. Rather than raise this issue during or in the weeks following the November 8 pre-motion conference, or seeking clarification from History Associates or the Court, the SEC revealed these limitations only months later when it made its production. This Court should order the SEC to complete its long overdue production promptly.

Neither the Court's instructions nor History Associates' letter described the two prioritized subparts as further limited in the way the SEC now asserts—*i.e.*, as including only "records that *more substantively* discussed Ethereum's shift to a proof-of-stake mechanism," and excluding "records that mentioned that the shift had occurred or would occur but *focused on* other subjects." Exhibit F (emphases added). It is unclear what those modifiers mean, and in all events, the

SEC had no basis to superimpose them unilaterally and "deem[] as not responsive" records they exclude. Exhibit F; *cf. History Associates v. FDIC*, No. 1:24-cv-01857-ACR (D.D.C. 2025) (ECF 28) (FDIC asserting post hoc a similarly narrow reading of History Associates' FOIA request); Minute Order, *History Associates v. FDIC*, *supra* (Jan. 22, 2025) (order requiring the FDIC to produce records it had withheld). At a minimum, if the SEC perceived any uncertainty or ambiguity about the scope of the subparts, the SEC should have raised those questions with History Associates promptly following receipt of the November 8 letter or if necessary with the Court. But the SEC never contested or sought to clarify that letter's recitation of the subparts of records the Court ordered the SEC to process. Instead, it revealed the limitations it applied for the first time in the cover email accompanying its January 28 production.

The SEC suggests that it imposed those limitations because the Court expressed reluctance to make the agency "look at every document ever created on this issue" on a short timeline. Exhibit F (quoting ECF 24-1 at 18). Of course, FOIA did require the SEC to review every record responsive to History Associates' request before it denied those requests more than a year ago; any inconvenience the SEC now faces is a problem of its own making, resulting from its decision to issue a near-blanket denial of the FOIA requests based on Exemption 7(A) without actually reviewing the records. And in all events the Court's concern was based on the SEC having quickly to review all documents responsive to *the full FOIA request*. Directing the agency, as a first step, to produce the two prioritized subparts was the Court's solution to that SEC-created problem: Rather than immediately "go through everything" within the full scope of History Associates' request, ECF 24-1 at 14, the SEC could focus initially on those subsets, which it agreed would be "workable," *id.* at 16, 18. The SEC cannot now in fairness insist that the subsets it agreed to process initially must be further narrowed to avoid overburdening the agency.

That is especially true because, from the SEC's explanation, it appears that the agency has already searched for, found, and to some extent reviewed the records it is now withholding as not responsive. As History Associates understands the SEC's account, it did not narrow its searches ex ante to limit the number of records they would identify. Rather, the SEC apparently has looked at these documents at least with enough rigor to decide whether they "more substantively discuss[] Ethereum's shift to a proof-of-stake mechanism" or instead are "focused on other subjects." Exhibit F. The SEC therefore cannot rely on the burden it would face reviewing all of the records within the two subparts based on their volume (which the SEC still has not specified); if (as it says) the SEC has reviewed the records it "deemed as not responsive" enough to decide they were (in the agency's view) insufficiently focused on the subparts' topics, those costs are already sunk.

This Court therefore should direct the SEC to conduct a complete search and to produce or catalog in a supplemental *Vaughn* index all remaining records within the two prioritized subparts that the agency has deemed not responsive based on the limitations the SEC unilaterally imposed. The Court should make clear that the SEC must search *all* relevant databases for records in those subparts using a comprehensive set of keywords.

SEC's Position

SEC's Responses to Narrowed Subparts. The SEC conducted a reasonable search for records responsive to the two narrowed subparts discussed during the November 8, 2024 appearance before the Court.

Narrowed subpart 1 seeks "all documents and communications that SEC Chair Gary Gensler sent, received, or considered concerning Ethereum's shift to a proof-of-stake mechanism." To identify responsive records, the SEC spoke to Chair Gensler's staff, and, based on that conversation, the SEC's Office of Information Technology ("OIT") ran two searches: (1) all Chair Gensler

email correspondence that contains "Ethereum" or "ETH" from January 1, 2018 to December 3, 2024 (the date of the search), and (2) all email correspondence of the Chair's Enforcement Counsel (Tejal Shah, Victor Suthammanont, and Jorge Tenreiro) that contains "Ethereum" or "ETH" from January 1, 2018 to December 3, 2024 (the date of the search). SEC staff then ran searches within those results to identify responsive records, specifically "proof of stake" and, for the Chair's ENF counsel, a date limitation of when those staff each served in the Chair's Office. In response to narrowed subpart 1, the SEC's Office of FOIA Services ("FOIA Office") released to Plaintiff one page in part and withheld in full 718 pages of records.

Narrowed subpart 2 seeks "all documents and communications sent by the SEC to third parties regarding Ethereum's shift to a proof-of-stake mechanism." To identify responsive records, SEC staff spoke to Division of Enforcement staff who worked on the Ethereum 2.0 investigation and gathered third-party correspondence and subpoenas from that investigation. SEC staff also spoke to Office of International Affairs staff, who provided correspondence with foreign entities. To identify additional responsive records, OIT ran a search for all SEC email correspondence that contains the search terms "proof-of-stake" AND "Ethereum" from January 1, 2018 to December 10, 2024 (the date of the search). SEC staff then narrowed those search results to email correspondence from SEC staff to external parties and ran searches within those results to identify responsive records. In response to narrowed subpart 2, the FOIA Office released to Plaintiff 1,217 pages in part and withheld in full 6,970 pages.

History Associates appears to contest two aspects of the SEC's searches. First, it seeks records on "collaboration platforms" like Microsoft Teams. The SEC is willing to conduct an additional search for records on Microsoft Teams. Second, History Associates includes requested search terms for the first time in this joint status report that do not appear in the text of their FOIA

requests or the narrowed subparts. Again, the SEC is willing to conduct an additional search for records using search terms that Plaintiff requests.

Reasonable Responsiveness Criteria. The SEC applied reasonable responsiveness criteria to the records returned by its searches. During the November 8, 2024 hearing, Plaintiff's counsel stated that Plaintiff seeks records about "what the agency has been thinking and saying to third parties" about Ethereum's shift to proof-of-stake. ECF 24-1 at 15:7-8. Judge Reyes stated that the parties should "figure out some way to get [Plaintiff] what [it] wants without having to look at every document ever created on this issue." *Id.* at 18:22-25. Judge Reyes also noted, and Plaintiff's counsel agreed, that the narrowed subparts should be "an initial, small subset of things." *Id.* at 17:17-22. Based on this discussion, the SEC deemed as responsive records that substantively discussed Ethereum's shift to a proof-of-stake mechanism rather than any document that mentioned that the shift had occurred but focused on a different topic.

Plaintiff now appears to seek every SEC record that contains any mention of Ethereum's shift to proof-of-stake. As Judge Reyes noted, if Plaintiff "want[s] anything that's been said about it, that's fine, but [Plaintiff is] not going to get anything for quite a while." ECF 24-1 at 15:11-14. As noted above, the SEC is willing to conduct additional searches and to apply broader responsiveness criteria, but Plaintiff's request that the SEC do so within 14 days is unreasonable. The SEC needs at least 60 days to determine exactly what records Plaintiff seeks, conduct the additional searches, review records for responsiveness, and complete the necessary consultations to release the records.

The SEC believes that the most efficient way forward is for the parties to work together to try to address Plaintiff's concerns. The SEC respectfully requests that the parties be required to confer to seek to define an appropriate search and define what Plaintiff is seeking. The parties

should also discuss a reasonable timeframe to complete the search and submit a joint status report based on those discussions in 14 days.

Date: February 4, 2025

/s/ Jonathan C. Bond

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Respectfully submitted,

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Attorney for Defendant

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Exhibit A



UNITED STATES SECURITIES AND EXCHANGE COMMISSION

STATION PLACE 100 F STREET, NE WASHINGTON, DC 20549-2465

Office of FOIA Services

January 7, 2025

Ms. Jessica Albert and Ms. Eva Laverty-Wilson History Associates Incorporated 300 N. Stonestreet Avenue Rockville, MD 20850

> Re: Freedom of Information Act (FOIA), 5 U.S.C. § 552 Request Nos. 24-00020-LITG (23-03120-FOIA, 23-03128-FOIA, and 23-03269-FOIA)

Dear Ms. Albert and Ms. Laverty-Wilson:

This letter is a partial response to your FOIA Request Nos. 23-03128-FOIA, 23-03120-FOIA, and 23-03269-FOIA. FOIA Request Nos. 23-03128-FOIA and 23-03120-FOIA, dated and received in this office on August 8, 2023, seek "all investigative files and any other factual documents received by the Commission, any Commissioner, and/or any Commission Staff or otherwise in the Commission Staff's custody or control, or any internal or external communications reflecting or concerning any investigations by the Commission or Commission Staff, of" Enigma MPC (Request No. 23-03120-FOIA) and Zachary Coburn (Request No. 23-03128-FOIA). FOIA Request No. 23-03269-FOIA, dated and received in this office on July 28, 2023, seeks "all records concerning Ethereum's shift to a proof-of-stake consensus mechanism that have been created since January 1, 2018."

Reference is made to our letter dated October 5, 2023, regarding FOIA Request No. 23-03120-FOIA in which we granted your request in part and released to you three pages of records, in part, and informed you that we are withholding additional records that may be responsive to the request pursuant to FOIA Exemption 7(A). Additional reference is made to our letter dated August 11, 2023, regarding FOIA Request No. 23-03128-FOIA in which we informed you that we are withholding responsive records pursuant to FOIA Exemption 7(A). Additional reference is made to our letter dated October 10, 2023, regarding FOIA Request No. 23-03269-FOIA in which we informed you that we could not locate any responsive records, as well as the Office of the

Ms. Jessica Albert
Ms. Eva Laverty-Wilson
January 7, 2025
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General Counsel's subsequent appeal decision dated February 6, 2024, that responsive records are protected from disclosure pursuant to FOIA Exemption 7(A).

Your counsel and the SEC's counsel have subsequently agreed that the SEC will process two narrowed subparts of FOIA Request No. 23-03269-FOIA: (1) all documents and communications that SEC Chair Gary Gensler sent, received, or considered concerning Ethereum's shift to a proof-of-stake mechanism, and (2) all documents and communications sent by the SEC to third parties regarding Ethereum's shift to a proof-of-stake mechanism.

We are withholding in full 705 pages of records in response to narrowed subpart 1 pursuant to 5 U.S.C. $\S\S$ 552(b)(5),(6), and 7(C) for the following reasons:

- FOIA Exemption 5 protects certain information prepared in anticipation of litigation, forms an integral part of the pre-decisional process, and/or contains advice given to the Commission or senior staff by the SEC's attorneys. Therefore, it is protected from release by the attorney work-product doctrine and/or the deliberative process and/or attorney-client privileges embodied in Exemption 5.
- FOIA Exemption 6 protects certain information the release of which would constitute a clearly unwarranted invasion of personal privacy. We have withheld the names, titles, email addresses, and phone numbers of certain SEC staff as well as the names and contact information of third-party individuals; and
- FOIA Exemption (7)(C) protects information the release of which could reasonably be expected to constitute an unwarranted invasion of personal privacy. Release of this information could subject the employees and third-party individuals named in the documents to harassment from the public in the performance of their official duties.

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Ms. Eva Laverty-Wilson
January 7, 2025
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Additionally, the enclosed 928 pages are released in response to narrowed subpart 2, with the exception of certain information that has been withheld pursuant to 5 U.S.C. \$\\$ 552(b)(6) and 7(C) for the above reasons. We are also withholding in full 30 pages of records pursuant to 5 U.S.C. \$\\$ 552(b)(5) for the above reason.

Please be advised that we have considered the foreseeable harm standard when reviewing records and applying FOIA exemptions.

I am the deciding official with regard to this adverse determination. You have the right to appeal my decision to the SEC's General Counsel under 5 U.S.C. § 552(a)(6), 17 CFR § 200.80(f)(1). The appeal must be received within ninety (90) calendar days of the date of this adverse decision. Your appeal must be in writing, clearly marked "Freedom of Information Act Appeal," and should identify the requested records. The appeal may include facts and authorities you consider appropriate.

You may file your appeal by completing the online Appeal form located at https://www.sec.gov/forms/request appeal, or mail your appeal to the Office of FOIA Services of the Securities and Exchange Commission located at Station Place, 100 F Street NE, Mail Stop 2465, Washington, D.C. 20549, or deliver it to Room 1120 at that address.

If you have any questions, please contact Alexandra Verdi at verdim@sec.gov. You may also contact me at foiapa@sec.gov or (202) 551-7900. You may also contact the SEC's FOIA Public Service Center at foiapa@sec.gov or (202) 551-7900. For more information about the FOIA Public Service Center and other options available to you please see the attached addendum.

Sincerely,

Matthew Hurd

Matthew Hurd Attorney Advisor

Enclosure

ADDENDUM

For further assistance you can contact a SEC FOIA Public Liaison by calling (202) 551-7900 or visiting https://www.sec.gov/oso/help/foia-contact.html.

SEC FOIA Public Liaisons are supervisory staff within the Office of FOIA Services. They can assist FOIA requesters with general questions or concerns about the SEC's FOIA process or about the processing of their specific request.

In addition, you may also contact the Office of Government Information Services (OGIS) at the National Archives and Records Administration to inquire about the FOIA dispute resolution services it offers. OGIS can be reached at 1-877-684-6448 or via e-mail at ogis@nara.gov. Information concerning services offered by OGIS can be found at their website at Archives.gov. Note that contacting the FOIA Public Liaison or OGIS does not stop the 90-day appeal clock and is not a substitute for filing an administrative appeal.



UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Chicago Regional Office 175 West Jackson, Suite 1450 Chicago, IL 60604

December 4, 2023

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(b)(6); (b)(7)(C)	

Re: Ethereum 2.0 (C-08950)

Dear (b)	(6); (b)(7)(C)
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The staff of the Chicago Regional Office of the United States Securities and Exchange Commission is conducting an investigation in the matter identified above. The enclosed subpoena has been issued to you as part of this investigation. The subpoena requires you to provide us documents and give sworn testimony. Please note that if you comply with the instructions for producing documents, you will not need to appear for testimony at the indicated time.

Please read the subpoena and this letter carefully. This letter answers some questions you may have about the subpoena. You should also read the enclosed SEC Form 1662. If you do not comply with this subpoena, the SEC may bring an action in Federal Court to enforce this subpoena. Failure to comply with a court order enforcing this subpoena may result in the court imposing a fine, imprisonment or both.

Producing Documents

What materials do I have to produce?

The subpoena requires you to provide us the documents described in the attachment to the subpoena. You must provide these documents by December 18, 2023. The attachment to the subpoena defines some terms (such as "document") before listing what you must provide.

You should produce each and every document in your possession, custody, or control, including any documents that are not in your immediate possession but that you have the ability to obtain. All responsive documents shall be produced as they are kept in the usual course of business, and shall be organized and labeled to correspond with the numbered paragraphs in the subpoena attachment. In that regard, documents should be produced in a unitized manner, i.e., delineated with staples or paper clips to identify the document boundaries.

Documents responsive to this subpoena may be in electronic or paper form. Electronic documents such as email should be produced in accordance with the attached document entitled SEC Data Delivery Standards (the "Standards"). If you have any questions concerning the production of documents in an electronic format, please contact me as soon as possible but in any event before producing documents. All electronic documents responsive to the document subpoena, including all metadata, must also be secured and retained in their native software format and stored in a safe place. The staff may later request or require that you produce the native format.

For documents in paper format, you may send the originals, or, if you prefer, you may send copies of the originals. The Commission cannot reimburse you for the copying costs. If you are sending copies, the staff requests that you scan (rather than photocopy) hard copy documents and produce them in an electronic format consistent with the Standards. Alternatively, you may send us photocopies of the documents in paper format. If you choose to send copies, you must secure and retain the originals and store them in a safe place. The staff may later request or require that you produce the originals.

Whether you scan or photocopy documents, the copies must be identical to the originals, including even faint marks or print. Also, please note that if copies of a document differ in any way, they are considered separate documents and you must send each one. For example, if you have two copies of the same letter, but only one of them has handwritten notes on it, you must send both the clean copy and the one with notes.

If you do send us scanned or photocopied documents, please put an identifying notation on each page of each document to indicate that you produced it, and number the pages of all the documents submitted. (For example, if Jane Doe sends documents to the staff, she may number the pages JD-1, JD-2, JD-3, etc., in a blank corner of the documents.) Please make sure the notation and number do not conceal any writing or marking on the document. If you send us originals, please do not add any identifying notations.

In producing a photocopy of an original document that contains post-it(s), notation flag(s), or other removable markings or attachments which may conceal all or a portion of the markings contained in the original document, photocopies of the original document both with and without the relevant post-it(s), notation flag(s), or removable markings or attachments should be produced.

Do I need to send anything else?

You should enclose a list briefly describing each item you send. The list should state to which numbered paragraph(s) in the subpoena attachment each item responds. A copy of the subpoena should be included with the documents that are produced.

Passwords for documents, files, compressed archives, and encrypted media should be provided separately either via email addressed to ENF-CPU@sec.gov, or in a separate cover

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letter mailed separately from the data. Password correspondence should reference case number, case name and requesting SEC staff member.

Please include a cover letter stating whether you believe you have met your obligations under the subpoena by searching carefully and thoroughly for everything called for by the subpoena, and sending it all to us. Correspondence should reference case number, case name and requesting SEC staff member.

Please also provide a narrative description describing what you did to identify and collect documents responsive to the subpoena. At a minimum, the narrative should describe:

- who searched for documents;
- who reviewed documents found to determine whether they were responsive;
- what sources were searched (e.g., computer files, CDs, DVDs, thumb drives, flash drives, online storage media, hard copy files, diaries, datebooks, planners, filing cabinets, home office, work office, voice mails, home email, webmail, work email, backup tapes or other media);
- what third parties, if any, were contacted to obtain responsive documents (e.g., phone companies for phone records, brokerage firms for brokerage records); and
- where the original electronic and hardcopy documents are maintained and by whom.

For any documents that qualify as records of regularly conducted activities under Federal Rule of Evidence 902(11), please complete a business records certification (a sample of which is enclosed) and return it with the document production.

What if I do not send everything described in the attachment to the subpoena?

The subpoena requires you to send all the materials described in it. If, for any reason including a claim of attorney-client privilege—you do not produce something called for by the subpoena, you should submit a list of what you are not producing. The list should describe each item separately, noting:

- its author(s);
- its date;
- its subject matter;
- the name of the person who has the item now, or the last person known to have it;
- the names of everyone who ever had the item or a copy of it, and the names of everyone who was told the item's contents;
- the reason you did not produce the item; and
- the specific request in the subpoena to which the document relates.

If you withhold anything on the basis of a claim of attorney-client privilege or attorney work product protection, you should identify the attorney and client involved. If you withhold anything on the basis of the work product doctrine, you should also identify the litigation in anticipation of which the document was prepared.

If documents responsive to this subpoena no longer exist because they have been lost, discarded, or otherwise destroyed, you should identify such documents and give the date on which they were lost, discarded or destroyed.

Where should I send the materials?

Please send the materials to:

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ENF-CPU (U.S. Securities & Exchange Commission) 14420 ALBEMARLE POINT PL Suite 102 CHANTILLY, VA 20151-1750

For smaller electronic productions under 10MB in size, the materials may be emailed to the following email address: ENF-CPU@sec.gov with copies to become when the commission with copies to become the Commission's secure electronic transfer site, Accellion/Kiteworks, please contact me and I will send you a link.

Testifying

Where and when do I testify?

The subpoena requires you to come to the Commission's offices at 100 Pearl Street, Suite 20-100, New York, NY 10004 at 9:30 a.m. on December 22, 2023 to testify under oath in the matter identified on the subpoena. But, as noted above, if you comply with all the directions for producing documents, we will not require you to testify at the indicated time. We may require your testimony later, however.

Other Important Information

May I have a lawyer help me respond to the subpoena?

Yes. You have the right to consult with and be represented by your own lawyer in this matter. Your lawyer may also advise and accompany you when you testify. We cannot give you legal advice.

What will the Commission do with the materials I send and/or the testimony I provide?

The enclosed SEC Form 1662 explains how we may use the information you provide to the Commission. This form also has other important information for you. Please read it carefully.

Has the Commission determined that anyone has done anything wrong?

This investigation is a non-public, fact-finding inquiry. We are trying to determine whether there have been any violations of the federal securities laws. The investigation and the

subpoena do not mean that we have concluded that you or anyone else has violated the law. Also, the investigation does not mean that we have a negative opinion of any person, entity or security.

Important Policy Concerning Settlements

Please note that, in any matter in which enforcement action is ultimately deemed to be warranted, the Division of Enforcement will not recommend any settlement to the Commission unless the party wishing to settle certifies, under penalty of perjury, that all documents responsive to Commission subpoenas and formal and informal document requests in this matter have been produced.

I have read this letter, the subpoena, and the SEC Form 1662, but I still have questions. What should I do?

If you ha	ve any other questions, you may call me at (b)(6); (b)(7)(C)	or (b)(6); (b)(7)(C)	a
(b)(6); (b)(7)(C)	If you are represented by a lawyer, you should have your l	awyer contact me	-

Sincerely,

(b)(6); (b)(7)(C)	
Division of Enfor	
Division of Enfor	cement
(b)(6); (b)(7)(C) 2)sec.go	v

Enclosures: Subpoena and Attachment

SEC Data Delivery Standards

SEC Form 1662

Business Records Certification

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SUBPOENA

UNITED STATES OF AMERICA SECURITIES AND EXCHANGE COMMISSION

In the Matter of Ethereum 2.0 (C-08950)

То:	(b)(6); (b)(7)(C)									
\boxtimes	YOU MUST PRODUCE everything specified in the Attachment to this subpoena to officers of the Securities and Exchange Commission, at the place, date and time specified below:									
	ENF-CPU, U.S. Securities and Exchange Commission, 14420 Albemarle Point Pl, Suite 102, Chantilly, VA 20151-1750, no later than December 18, 2023, at 9:30 a.m.									
	YOU MUST TESTIFY before officers of the Securities and Exchange Commission, at the place, date and time specified below:									
	New York Regional Off December 22, 2023, at 9		0-100, New York, NY 10004 on							
	you do not comply with this s		n action in Federal Court to enforce this oppoena may result in the court imposing a							
By:	(b)(6); (b)(7)(C) U.S. Securities and Exchar New York Regional Offic 100 Pearl Street, Suite 20- New York, NY 10004	e	December 4, 2023							

I am an officer of the U.S. Securities and Exchange Commission authorized to issue subpoenas in this matter. The Securities and Exchange Commission has issued a formal order authorizing this investigation under: Section 20(a) of the Securities Act of 1933.

NOTICE TO WITNESS: If you claim a witness fee or mileage, submit this subpoena with the claim voucher

SUBPOENA ATTACHMENT FOR (b)(6); (b)(7)(C) December 4, 2023

In the Matter of Ethereum 2.0 (C-08950)

A. <u>Definitions</u>

As used in this document subpoena, the words and phrases listed below shall have the following meanings:

- 1. "Relevant Period" means July 1, 2018 to the present.
- 2. The "Foundation" means the entity or business doing business under the name Ethereum Foundation, including ethereum.org and parents, subsidiaries, affiliates, predecessors, successors, officers, directors, employees, agents, general partners, limited partners, partnerships and aliases, owners, code names, or trade or business names used by any of the foregoing.
- 3. "EIP" means Ethereum Improvement Proposal.
- 4. "The Merge" or "Ethereum 2.0" means the transition by the Ethereum blockchain of its consensus mechanism from proof-of-work to proof-of-stake.
- 5. "Beacon Chain" means the original proof-of-stake blockchain that was launched in 2020 that ran alongside the original proof-of-work Ethereum blockchain.
- 6. "ETH" means Ether or the native crypto asset for the Ethereum blockchain and network.
- "Document" includes, but is not limited to, any written, printed, or typed matter including, but not limited to all drafts and copies bearing notations or marks not found in the original, letters and correspondence, interoffice communications, slips, tickets, records, worksheets, financial records, accounting documents, bookkeeping documents, memoranda, reports, manuals, telephone logs, telegrams, facsimiles, messages of any type, telephone messages, voice mails, tape recordings, notices, instructions, minutes, summaries, notes of meetings, file folder markings, and any other organizational indicia, purchase orders, information recorded by photographic process, including microfilm and microfiche, computer printouts, spreadsheets, and other electronically stored information, including but not limited to writings, drawings, graphs, charts, photographs, sound recordings, images, and other data or data compilations that are stored in any medium from which information can be retrieved, obtained, manipulated, or translated.
- 8. "Communication" means any correspondence, contact, discussion, e-mail, instant message, or any other kind of oral or written exchange or transmission of information (in the form of facts, ideas, inquiries, or otherwise), including but not limited to those made on Social Media Services, and any response thereto between two or more Persons or entities, including, without limitation, all

- telephone conversations, face-to-face meetings or conversations, internal or external discussions, or exchanges of a Document or Documents.
- 9. "Concerning" means directly or indirectly, in whole or in part, describing, constituting, evidencing, recording, evaluating, substantiating, concerning, referring to, alluding to, in connection with, commenting on, relating to, regarding, discussing, showing, analyzing or reflecting.
- 10. "Agreement" means any actual or contemplated (i) written or oral Agreement; (ii) term or provision of such Agreement; or (iii) amendment of any nature or termination of such Agreement. A request for any Agreement among or between specified parties includes a request for all Documents Concerning (i) any actual or contemplated Agreement among or between such parties, whether or not such Agreement included any other Person; (ii) the drafting or negotiation of any such Agreement; (iii) any actual or contemplated demand, request or application for any such Agreement, and any response thereto; and (iv) any actual or contemplated objection or refusal to enter into any such Agreement, and any response thereto.
- 11. "Person" means a natural person, firm, association, organization, partnership, business, trust, corporation, bank or any other private or public entity.
- 12. The term "you" and "your" means the Person or entity to whom this subpoena was issued.
- 13. To the extent necessary to bring within the scope of this subpoena any information or Documents that might otherwise be construed to be outside its scope:
 - a. the word "or" means "and/or";
 - b. the word "and" means "and/or";
 - c. the functional words "each," "every" "any" and "all" shall each be deemed to include each of the other functional words;
 - d. the masculine gender includes the female gender and the female gender includes the masculine gender; and
 - e. the singular includes the plural and the plural includes the singular.

B. <u>Instructions</u>

- 1. Unless otherwise specified, the subpoena calls for production of the original Documents and all copies and drafts of same. Documents responsive to this subpoena may be in electronic or paper form. Electronic Documents such as email should be produced in accordance with the attached document entitled SEC Data Delivery Standards. All electronic Documents responsive to the subpoena, including all metadata, should also be produced in their native software format.
- 2. For Documents in paper format, you may send the originals, or, if you prefer, you may send copies of the originals. The Commission cannot reimburse you for the copying costs. If you are sending copies, the staff requests that you scan (rather

3. Whether you scan or photocopy Documents, the copies must be identical to the originals, including even faint marks or print. Also, please note that if copies of a Document differ in any way, they are considered separate Documents and you must send each one. For example, if you have two copies of the same letter, but only one of them has handwritten notes on it, you must send both the clean copy and the one with notes.

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- 4. In producing a photocopy of an original Document that contains post-it(s), notation flag(s), or other removable markings or attachments which may conceal all or a portion of the markings contained in the original Document, photocopies of the original Document both with and without the relevant post-it(s), notation flag(s), or removable markings or attachments should be produced.
- 5. Documents should be produced as they are kept in the ordinary course of business or be organized and labeled to correspond with the categories in this subpoena. In that regard, Documents should be produced in a unitized manner, *i.e.*, delineated with staples or paper clips to identify the Document boundaries.
- 6. Documents should be labeled with sequential numbering (bates-stamped).
- 7. The scope of any given request should not be limited or narrowed based on the fact that it calls for Documents that are responsive to another request.
- 8. You are not required to produce exact duplicates of any Documents that have been previously produced to the Securities and Exchange Commission staff in connection with this matter. If you are not producing Documents based upon a prior production, please identify the responsive Documents that were previously produced.
- 9. For any Documents that qualify as records of regularly conducted activities under Federal Rule of Evidence 902(11), please complete a business records certification (a sample of which is enclosed) and return it with the Document production.
- 10. This subpoena covers all Documents in or subject to your possession, custody or control, including all Documents that are not in your immediate possession but that you have the effective ability to obtain, that are responsive, in whole or in part, to any of the individual requests set forth below. If, for any reason including a claim of attorney-client privilege—you do not produce something called for by the subpoena, you should submit a list of what you are not producing. The list should be produced as an Excel file and describe each item separately, noting:

- a. its author(s);
- b. its date;

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- c. its subject matter;
- d. the name of the Person who has the item now, or the last Person known to have it;
- e. the names of everyone who ever had the item or a copy of it, and the names of everyone who was told the item's contents;
- f. the basis upon which you are not producing the responsive Document;
- g. the specific request in the subpoena to which the Document relates;
- h. the attorney(s) and the client(s) involved; and
- i. in the case of the work product doctrine, the litigation for which the Document was prepared in anticipation.
- 11. If Documents responsive to this subpoena no longer exist because they have been lost, discarded, or otherwise destroyed, you should identify such Documents and give the date on which they were lost, discarded or destroyed.

D. Documents to be Immediately Preserved and Produced

- 1. Documents and Communications Concerning the launch of the Beacon Chain, the Merge, and the website https://launchpad.ethereum.org, or any content published on the Launchpad's website.
- 2. Any organizational charts listing related entities and/or officers, directors, employees, or agents of the Foundation.
- 3. The Foundation's board meeting minutes (including drafts), agendas, and materials provided to the board or committee members provided to you Concerning the launch of the Beacon Chain; the Merge; the website https://launchpad.ethereum.org, or any content published on the Launchpad's website; or the Foundation's financial statements or financial condition.
- 4. All Documents Concerning any legal analysis of ETH issued after the Merge provided to you. Please note that the above Instructions discuss the procedures for how to handle privileged documents.
- 5. Documents sufficient to identify all investors in the Foundation (the "Investors") by name and address.
- 6. All Documents provided to, and Communications with, the Investors in connection with any offering of an interest in the ownership of the Foundation.

DECLARATION OF [Insert Name] CERTIFYING RECORDS OF REGULARLY CONDUCTED BUSINESS ACTIVITY

I, the undersigned, [insert name], pursuant to 28 U.S.C. § 1746, declare that:

- 1. I am employed by the Ethereum Foundation as [insert position] and by reason of my position am authorized and qualified to make this declaration. [if possible supply additional information as to how person is qualified to make declaration, e.g., I am custodian of records, I am familiar with the company's recordkeeping practices or systems, etc.]
- 2. I further certify that the documents [attached hereto or submitted herewith] and stamped [insert bates range] are true copies of records that were:
 - (a) made at or near the time of the occurrence of the matters set forth therein, by, or from information transmitted by, a person with knowledge of those matters;
 - (b) kept in the course of regularly conducted business activity; and
 - (c) made by the regularly conducted business activity as a regular practice.

I declare under penalty of perjury that the foregoing is true and correct. Executed on [date].

SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549

Supplemental Information for Persons Requested to Supply Information Voluntarily or Directed to Supply Information Pursuant to a Commission Subpoena

A. False Statements and Documents

Section 1001 of Title 18 of the United States Code provides that fines and terms of imprisonment may be imposed upon:

[W]hoever, in any matter within the jurisdiction of the executive, legislative, or judicial branch of the Government of the United States, knowingly and willfully--

- (1) falsifies, conceals, or covers up by any trick, scheme, or device a material fact;
- (2) makes any materially false, fictitious, or fraudulent statement or representation; or
- (3) makes or uses any false writing or document knowing the same to contain any materially false, fictitious, or fraudulent statement or entry.

Section 1519 of Title 18 of the United States Code provides that fines and terms of imprisonment may be imposed upon:

Whoever knowingly alters, destroys, mutilates, conceals, covers up, falsifies, or makes a false entry in any record, document, or tangible object with the intent to impede, obstruct, or influence the investigation or proper administration of any matter within the jurisdiction of any department or agency of the United States . . ., or in relation to or contemplation of any such matter.

B. Testimony

If your testimony is taken, you should be aware of the following:

- 1. Record. Your testimony will be transcribed by a reporter. If you desire to go off the record, please indicate this to the Commission employee taking your testimony, who will determine whether to grant your request. The reporter will not go off the record at your, or your counsel's, direction.
- 2. Counsel. You have the right to be accompanied, represented and advised by counsel of your choice. Your counsel may advise you before, during and after your testimony; question you briefly at the conclusion of your testimony to clarify any of the answers you give during testimony; and make summary notes during your testimony solely for your use. If you are accompanied by counsel, you may consult privately.

If you are not accompanied by counsel, please advise the Commission employee taking your testimony if, during the testimony, you desire to be accompanied, represented and advised by counsel. Your testimony will be adjourned once to afford you the opportunity to arrange to be so accompanied, represented or advised.

You may be represented by counsel who also represents other persons involved in the Commission's investigation. This multiple representation, however, presents a potential conflict of interest if one client's interests are or may be adverse to another's. If you are represented by counsel who also represents other persons involved in the investigation, the Commission will assume that you and counsel have discussed and resolved all issues concerning possible conflicts of interest. The choice of counsel, and the responsibility for that choice, is yours.

3. Transcript Availability. Rule 6 of the Commission's Rules Relating to Investigations, 17 CFR 203.6, states:

A person who has submitted documentary evidence or testimony in a formal investigative proceeding shall be entitled, upon written request, to procure a copy of his documentary evidence or a transcript of his testimony on payment of the appropriate fees: *Provided, however*, That in a nonpublic formal investigative proceeding the Commission may for good cause deny such request. In any event, any witness, upon proper identification, shall have the right to inspect the official transcript of the witness' own testimony.

If you wish to purchase a copy of the transcript of your testimony, the reporter will provide you with a copy of the appropriate form. Persons requested to supply information voluntarily will be allowed the rights provided by this rule.

4. *Perjury.* Section 1621 of Title 18 of the United States Code provides that fines and terms of imprisonment may be imposed upon:

Whoever--

(1) having taken an oath before a competent tribunal, officer, or person, in any case in which a law of the United States authorizes an oath to be administered, that he will testify, declare,

matter which he does not believe to be true; or

depose, or certify truly, or that any written testimony, declaration, deposition, or certificate by him subscribed, is true, willfully and contrary to such oath states or subscribes any material

- (2) in any declaration, certificate, verification, or statement under penalty of perjury as permitted under section 1746 of title 28, United States Code, willfully subscribes as true any material matter which he does not believe to be true.
- 5. Fifth Amendment and Voluntary Testimony. Information you give may be used against you in any federal, state, local or foreign administrative, civil or criminal proceeding brought by the Commission or any other agency.

You may refuse, in accordance with the rights guaranteed to you by the Fifth Amendment to the Constitution of the United States, to give any information that may tend to incriminate you.

If your testimony is not pursuant to subpoena, your appearance to testify is voluntary, you need not answer any question, and you may leave whenever you wish. Your cooperation is, however, appreciated.

6. Formal Order Availability. If the Commission has issued a formal order of investigation, it will be shown to you during your testimony, at your request. If you desire a copy of the formal order, please make your request in writing.

C. Submissions and Settlements

Rule 5(c) of the Commission's Rules on Informal and Other Procedures, 17 CFR 202.5(c), states:

Persons who become involved in . . . investigations may, on their own initiative, submit a written statement to the Commission setting forth their interests and position in regard to the subject matter of the investigation. Upon request, the staff, in its discretion, may advise such persons of the general nature of the investigation, including the indicated violations as they pertain to them, and the amount of time that may be available for preparing and submitting a statement prior to the presentation of a staff recommendation to the Commission for the commencement of an administrative or injunction proceeding. Submissions by interested persons should be forwarded to the appropriate Division Director or Regional Director with a copy to the staff members conducting the investigation and should be clearly referenced to the specific investigation to which they relate. In the event a recommendation for the commencement of an enforcement proceeding is presented by the staff, any submissions by interested persons will be forwarded to the Commission in conjunction with the staff memorandum.

The staff of the Commission routinely seeks to introduce submissions made pursuant to Rule 5(c) as evidence in Commission enforcement proceedings, when the staff deems appropriate.

Rule 5(f) of the Commission's Rules on Informal and Other Procedures, 17 CFR 202.5(f), states:

In the course of the Commission's investigations, civil lawsuits, and administrative proceedings, the staff, with appropriate authorization, may discuss with persons involved the disposition of such matters by consent, by settlement, or in some other manner. It is the policy of the Commission, however, that the disposition of any such matter may not, expressly or impliedly, extend to any criminal charges that have been, or may be, brought against any such person or any recommendation with respect thereto. Accordingly, any person involved in an enforcement matter before the Commission who consents, or agrees to consent, to any judgment or order does so solely for the purpose of resolving the claims against him in that investigative, civil, or administrative matter and not for the purpose of resolving any criminal charges that have been, or might be, brought against him. This policy reflects the fact that neither the Commission nor its staff has the authority or responsibility for instituting, conducting, settling, or otherwise disposing of criminal proceedings. That authority and responsibility are vested in the Attorney General and representatives of the Department of Justice.

D. Freedom of Information Act

The Freedom of Information Act, 5 U.S.C. 552 (the "FOIA"), generally provides for disclosure of information to the public. Rule 83 of the Commission's Rules on Information and Requests, 17 CFR 200.83, provides a procedure by which a person can make a written request that information submitted to the Commission not be disclosed under the FOIA. That rule states that no determination as to the validity of such a request will be made until a request for disclosure of the information under the FOIA is received. Accordingly, no response to a request that information not be disclosed under the FOIA is necessary or will be given until a request for disclosure under the FOIA is received. If you desire an acknowledgment of receipt of your written request that information not be disclosed under the FOIA, please provide a duplicate request, together with a stamped, self-addressed envelope.

E. Authority for Solicitation of Information

Persons Directed to Supply Information Pursuant to Subpoena. The authority for requiring production of information is set forth in the subpoena. Disclosure of the information to the Commission is mandatory, subject to the valid assertion of any legal right or privilege you might have.

Persons Requested to Supply Information Voluntarily. One or more of the following provisions authorizes the Commission to solicit the information requested: Sections 19 and/or 20 of the Securities Act of 1933; Section 21 of the Securities Exchange Act of 1934; Section 321 of the Trust Indenture Act of 1939; Section 42 of the Investment Company Act of 1940; Section 209 of the Investment Advisers Act of 1940; and 17 CFR 202.5. Disclosure of the requested information to the Commission is voluntary on your part.

F. Effect of Not Supplying Information

Persons Directed to Supply Information Pursuant to Subpoena. If you fail to comply with the subpoena, the Commission may seek a court order requiring you to do so. If such an order is obtained and you thereafter fail to supply the information, you may be subject to civil and/or criminal sanctions for contempt of court. In addition, Section 21(c) of the Securities Exchange Act of 1934, Section 42(c) of the Investment Company Act of 1940, and Section 209(c) of the Investment Advisers Act of 1940 provide that fines and terms of imprisonment may be imposed upon any person who shall, without just cause, fail or refuse to attend and testify or to answer any lawful inquiry, or to produce books, papers, correspondence, memoranda, and other records in compliance with the subpoena.

Persons Requested to Supply Information Voluntarily. There are no direct sanctions and thus no direct effects for failing to provide all or any part of the requested information.

G. Principal Uses of Information

The Commission's principal purpose in soliciting the information is to gather facts in order to determine whether any person has violated, is violating, or is about to violate any provision of the federal securities laws or rules for which the Commission has enforcement authority, such as rules of securities exchanges and the rules of the Municipal Securities Rulemaking Board. Facts developed may, however, constitute violations of other laws or rules. Information provided may be used in Commission and other agency enforcement proceedings. Unless the Commission or its staff explicitly agrees to the contrary in writing, you should not assume that the Commission or its staff acquiesces in, accedes to, or concurs or agrees with, any position, condition, request, reservation of right, understanding, or any other statement that purports, or may be deemed, to be or to reflect a limitation upon the Commission's receipt, use, disposition, transfer, or retention, in accordance with applicable law, of information provided.

H. Routine Uses of Information

The Commission often makes its files available to other governmental agencies, particularly United States Attorneys and state prosecutors. There is a likelihood that information supplied by you will be made available to such agencies where appropriate. Whether or not the Commission makes its files available to other governmental agencies is, in general, a confidential matter between the Commission and such other governmental agencies.

Set forth below is a list of the routine uses which may be made of the information furnished.

- 1. To appropriate agencies, entities, and persons when (1) the SEC suspects or has confirmed that there has been a breach of the system of records, (2) the SEC has determined that as a result of the suspected or confirmed breach there is a risk of harm to individuals, the SEC (including its information systems, programs, and operations), the Federal Government, or national security; and (3) the disclosure made to such agencies, entities, and persons is reasonably necessary to assist in connection with the SEC's efforts to respond to the suspected or confirmed breach or to prevent, minimize, or remedy such harm.
- 2. To other Federal, state, local, or foreign law enforcement agencies; securities self-regulatory organizations; and foreign financial regulatory authorities to assist in or coordinate regulatory or law enforcement activities with the SEC.
- 3. To national securities exchanges and national securities associations that are registered with the SEC, the Municipal Securities Rulemaking Board; the Securities Investor Protection Corporation; the Public Company Accounting Oversight Board; the Federal banking authorities, including, but not limited to, the Board of Governors of the Federal Reserve System, the Comptroller of the Currency, and the Federal Deposit Insurance Corporation; state securities regulatory agencies or organizations; or regulatory authorities of a foreign government in connection with their regulatory or enforcement responsibilities.
- 4. By SEC personnel for purposes of investigating possible violations of, or to conduct investigations authorized by, the Federal securities laws.
- 5. In any proceeding where the Federal securities laws are in issue or in which the Commission, or past or present members of its staff, is a party or otherwise involved in an official capacity.
- 6. In connection with proceedings by the Commission pursuant to Rule 102(e) of its Rules of Practice, 17 CFR 201.102(e).

- 7. To a bar association, state accountancy board, or other Federal, state, local, or foreign licensing or oversight authority; or professional association or self-regulatory authority to the extent that it performs similar functions (including the Public Company Accounting Oversight Board) for investigations or possible disciplinary action.
- 8. To a Federal, state, local, tribal, foreign, or international agency, if necessary to obtain information relevant to the SEC's decision concerning the hiring or retention of an employee; the issuance of a security clearance; the letting of a contract; or the issuance of a license, grant, or other benefit.
- 9. To a Federal, state, local, tribal, foreign, or international agency in response to its request for information concerning the hiring or retention of an employee; the issuance of a security clearance; the reporting of an investigation of an employee; the letting of a contract; or the issuance of a license, grant, or other benefit by the requesting agency, to the extent that the information is relevant and necessary to the requesting agency's decision on the matter.
- 10. To produce summary descriptive statistics and analytical studies, as a data source for management information, in support of the function for which the records are collected and maintained or for related personnel management functions or manpower studies; may also be used to respond to general requests for statistical information (without personal identification of individuals) under the Freedom of Information Act.
- 11. To any trustee, receiver, master, special counsel, or other individual or entity that is appointed by a court of competent jurisdiction, or as a result of an agreement between the parties in connection with litigation or administrative proceedings involving allegations of violations of the Federal securities laws (as defined in section 3(a)(47) of the Securities Exchange Act of 1934, 15 U.S.C. 78c(a)(47)) or pursuant to the Commission's Rules of Practice, 17 CFR 201.100 through 900 or the Commission's Rules of Fair Fund and Disgorgement Plans, 17 CFR 201.1100 through 1106, or otherwise, where such trustee, receiver, master, special counsel, or other individual or entity is specifically designated to perform particular functions with respect to, or as a result of, the pending action or proceeding or in connection with the administration and enforcement by the Commission of the Federal securities laws or the Commission's Rules of Practice or the Rules of Fair Fund and Disgorgement Plans.
- 12. To any persons during the course of any inquiry, examination, or investigation conducted by the SEC's staff, or in connection with civil litigation, if the staff has reason to believe that the person to whom the record is disclosed may have further information about the matters related therein, and those matters appeared to be relevant at the time to the subject matter of the inquiry.
- 13. To interns, grantees, experts, contractors, and others who have been engaged by the Commission to assist in the performance of a service related to this system of records and who need access to the records for the purpose of assisting the Commission in the efficient administration of its programs, including by performing clerical, stenographic, or data analysis functions, or by reproduction of records by electronic or other means. Recipients of these records shall be required to comply with the requirements of the Privacy Act of 1974, as amended, 5 U.S.C.
- 14. In reports published by the Commission pursuant to authority granted in the Federal securities laws (as such term is defined in section 3(a)(47) of the Securities Exchange Act of 1934, 15 U.S.C. 78c(a)(47)), which authority shall include, but not be limited to, section 21(a) of the Securities Exchange Act of 1934, 15 U.S.C. 78u(a)).
- 15. To members of advisory committees that are created by the Commission or by Congress to render advice and recommendations to the Commission or to Congress, to be used solely in connection with their official designated functions.
- 16. To any person who is or has agreed to be subject to the Commission's Rules of Conduct, 17 CFR 200.735-1 through 200.735-18, and who assists in the investigation by the Commission of possible violations of the Federal securities laws (as such term is defined in section 3(a)(47) of the Securities Exchange Act of 1934, 15 U.S.C. 78c(a)(47)), in the preparation or conduct of enforcement actions brought by the Commission for such violations, or otherwise in connection with the Commission's enforcement or regulatory functions under the Federal securities laws.
- 17. To a Congressional office from the record of an individual in response to an inquiry from the Congressional office made at the request of that individual.
- 18. To members of Congress, the press, and the public in response to inquiries relating to particular Registrants and their activities, and other matters under the Commission's jurisdiction.
- 19. To prepare and publish information relating to violations of the Federal securities laws as provided in 15 U.S.C. 78c(a)(47)), as amended.
- 20. To respond to subpoenas in any litigation or other proceeding.
- 21. To a trustee in bankruptcy.
- 22. To any governmental agency, governmental or private collection agent, consumer reporting agency or commercial reporting agency, governmental or private employer of a debtor, or any other person, for collection,

including collection by administrative offset, Federal salary offset, tax refund offset, or administrative wage garnishment, of amounts owed as a result of Commission civil or administrative proceedings.

23. To another Federal agency or Federal entity, when the SEC determines that information from this system of records is reasonably necessary to assist the recipient agency or entity in (1) responding to a suspected or confirmed breach or (2) preventing, minimizing, or remedying the risk of harm to individuals, the recipient agency or entity (including its information systems, programs, and operations), the Federal Government, or national security, resulting from a suspected or confirmed breach.

* * * * *

Small Business Owners: The SEC always welcomes comments on how it can better assist small businesses. If you would like more information, or have questions or comments about federal securities regulations as they affect small businesses, please contact the Office of Small Business Policy, in the SEC's Division of Corporation Finance, at 202-551-3460. If you would prefer to comment to someone outside of the SEC, you can contact the Small Business Regulatory Enforcement Ombudsman at http://www.sba.gov/ombudsman or toll free at 888-REG-FAIR. The Ombudsman's office receives comments from small businesses and annually evaluates federal agency enforcement activities for their responsiveness to the special needs of small business.



U.S. Securities and Exchange Commission

Data Delivery Standards

This document describes the technical requirements for paper and electronic document productions to the U.S. Securities and Exchange Commission (SEC). **Any questions or proposed file formats other than those described below must be discussed with the legal and technical staff of the SEC Division of Enforcement prior to submission.**

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	I. Imaged Productions	3
	1. Images	3
	2. Image Cross-Reference File	3
	3. Data File	
	4. Text	
	5. Linked Native Files	
	II. Native File Productions without Load Files	4
	III. Adobe PDF File Productions	4
	IV. Audio Files	4
	V. Video Files	4
	VI. Electronic Trade and Bank Records	
	VII. Electronic Phone Records	
	VIII. Audit Workpapers	
	IX. Mobile Device Data	- 5

General Instructions

The current mailing address for all physical productions sent to the SEC is:

ENF-CPU (U.S. Securities & Exchange Commission), 14420 Albemarle Point Place, Suite 102, Chantilly, VA 20151-1750

Electronic files must be produced in their native format, i.e. the format in which they are ordinarily used and maintained during the normal course of business. For example, an MS Excel file must be produced as an MS Excel file rather than an image of a spreadsheet. (Note: An Adobe PDF file is <u>not</u> considered a native file unless the document was initially created as a PDF.)

In the event produced files require the use of proprietary software not commonly found in the workplace, the SEC will explore other format options with the producing party.

The proposed use of file de-duplication methodologies or *computer-assisted review* or *technology-assisted review* (TAR) during the processing of documents must be discussed with and approved by the legal and technical staff of the Division of Enforcement (ENF). If your production will be de-duplicated it is vital that you 1) preserve any unique metadata associated with the duplicate files, for example, custodian name and file location and, 2) make that unique metadata part of your production to the SEC.

General requirements for ALL document productions are:

- 1. A cover letter must be included with each production and should include the following information:
 - Case number, ease name and requesting SEC staff member name
 - A list of each piece of media included in the production with its unique production volume number
 - A list of custodians, identifying the Bates range for each custodian
 - d. A list of redacted documents and the redaction reason
 - e. The time zone in which the emails were standardized during conversion
 - f. Whether the production contains native files produced from Mac operating system environments
- Data can be produced on CD, DVD, thumb drive, etc., using the media requiring the least number of deliverables and labeled with the following:
 - a. Case number
 - b. Production date
 - c. Producing party
 - d. Bates range (if applicable)
- All submissions must be organized by custodian unless otherwise instructed.
- All document family groups, i.e. email attachments, embedded files, etc., should be produced together and children files should follow parent files sequentially in the Bates numbering.
- All load-ready collections should include only one data load file and one image pointer file.
- All load-ready text must be produced as separate document-level text files.
- All load-ready collections should account for custodians in the custodian field.
- All load-ready collections must provide the extracted contents of any container files to ensure all relevant files are produced as separate records.
- Audio files should be separated from data files if both are included in the production.
- 10. Only alphanumeric characters and the underscore character are permitted in file names and folder names. Special characters are not permitted.
- 11. All electronic productions submitted on media must be produced using industry standard self-extracting encryption software.
- 12. The SEC uses 7zip to access compressed files. Note that the SEC cannot accept files that use AES-256 Jpeg or pkAES-256-Cert Deflate compression methods, even if the files are created with 7zip. If you have any questions or need additional information, please reach out to the requesting SEC staff member.
- 13. Electronic productions of 20 GB or less are strongly encouraged to be submitted via Secure File Transfer. All Secure File Transfers should be sent to the SEC Centralized Production Unit (ENF-CPU@sec.gov) with a CC to the requesting SEC staff member. If you do not have your own Secure File Transfer application, you may reach out to the requesting SEC staff member for a link to the SEC system in order to upload your production. If using the SEC Secure File Transfer system, you will NOT be able to CC individuals outside the SEC on your upload transmission. Note that the SEC cannot accept productions made using file sharing sites such as Google Drive, Microsoft Office 365 or Dropbox.
- 14. Productions containing BSA or SAR material must be encrypted. Secure File Transfer applications may be used to produce BSA or SAR material. BSA or SAR material should be segregated and appropriately marked as BSA or SAR, or should be produced separately from other case related records.
- 15. Passwords for electronic documents, files, compressed archives and encrypted media must be provided separately either via email or in a cover letter apart from the media.
- 16. All electronic productions should be produced free of computer viruses.
- 17. Before producing forensically collected images, parties should reach out to the requesting SEC staff member in order to discuss appropriate handling.
- 18. Before producing unique data sets (large sets of relational data, website reconstruction, chat room data, etc.), parties should reach out to the requesting SEC staff member in order to discuss an appropriate production format.
- Additional technical descriptions can be found in the addendum to this document.

Please note that productions sent to the SEC via United States Postal Service are subject to Mail Irradiation, and as a result electronic productions may be damaged.

Delivery Formats

I. Imaged Productions

The SEC prefers that all scanned paper and electronic file collections be produced in a structured format including industry standard load files, Bates numbered image files, native files and searchable document-level text files. Bates numbers should not contain spaces. Hyphens (-) and underscores (_) are acceptable.

1. Images

- a. Black and white images must be 300 DPI Group IV single-page TIFF files
- b. Color images must be produced in JPEG format
- c. File names cannot contain embedded spaces or special characters (including the comma)
- d. Folder names cannot contain embedded spaces or special characters (including the comma)
- c. All image files must have a unique file name, i.e. Bates number
- f. Images must be endorsed with sequential Bates numbers in the lower right corner of each image
- g. The number of image files per folder should not exceed 2,000 files
- h. Excel spreadsheets should have a placeholder image named by the Bates number of the file
- i. AUTOCAD/photograph files should be produced as a single page JPEG file

2. Image Cross-Reference File

The image cross-reference file (.LOG or .OPT) links the images to the database records. It should be a comma-delimited file consisting of seven fields per line with a line in the cross-reference file for every image in the database with the following format:

ImageID, VolumeLabel, ImageFilePath, DocumentBreak, FolderBreak, BoxBreak, PageCount

3. Data File

The data file (.DAT) contains all of the fielded information that will be loaded into the database.

- a. The first line of the .DAT file must be a header row identifying the field names
- b. The .DAT file must use the following Concordance® default delimiters:

Comma ¶ ASCII character (020)

Quote b ASCII character (254)

- c. If the .DAT file is produced in Unicode format it must contain the byte order marker
- d. Date fields should be provided in the format: mm/dd/yyyy
- e. Date and time fields must be two separate fields
- f. The time zone must be included in all time fields
- g. If the production includes imaged emails and attachments, the attachment fields must be included to preserve the parent/child relationship between an email and its attachments
- h. An OCRPATH field must be included to provide the file path and name of the extracted text file on the produced storage media. The text file must be named after the FIRSTBATES. Do not include the text in the .DAT file.
- i. For productions with native files, a LINK field must be included to provide the file path and name of the native file on the produced storage media. The native file must be named after the FIRSTBATES.
- j. BEGATTACH and ENDATTACH fields must be two separate fields
- k. A complete list of metadata fields is available in Addendum A to this document

4. Text

Text must be produced as separate document-level text files, not as fields within the .DAT file. The text files must be named per the FIRSTBATES/Image Key and the full path to the text file (OCRPATH) should be included in the .DAT file. Text files may be in either ANSI or Unicode format, however, ALL text files must be in the same format within the same production. Note that productions containing text with foreign characters must produce text files in Unicode format to preserve the foreign characters. Text files must be in a separate folder, and the number of text files per folder should not exceed 2,000 files. There should be no special characters (including commas) in the folder names. For redacted documents, provide the full text for the redacted version.

5. Linked Native Files

Copies of original email and native file documents/attachments must be included for all electronic productions.

- a. Native file documents must be named per the FIRSTBATES number
- b. The full path of the native file must be provided in the .DAT file for the LINK field
- e. The number of native files per folder should not exceed 2,000 files

11. Native File Production without Load Files

With prior approval, native files may be produced without load files. Native file productions should not be Bates numbered. Native files must be produced as they are maintained in the normal course of business and organized by custodian-named file folders. Native email files (.PST or .MBOX) must be separated by custodian.

III. Adobe PDF File Production

With prior approval, Adobe PDF files may be produced in native file format.

- 1. All PDFs must be unitized at the document level, i.e., each PDF must represent a discrete document.
- 2. PDF files should be produced in separate folders named by the custodian. The folders should not contain any special characters (including commas).
- 3. All PDF files must contain embedded text that includes all discernible words within the document, not selected text or image only. This requires all layers of the PDF to be flattened first.
- 4. If PDF files are Bates endorsed, the PDF files must be named by the Bates range.

IV. Audio Files

Audio files from telephone recording systems must be produced in a format that is playable using Microsoft Windows Media PlayerTM. Additionally, the call information (metadata) related to each audio recording MUST be provided. The metadata file must be produced in a delimited text format. Field names must be included in the first row of the text file. The metadata must include, at a minimum, the following fields:

1) Caller Name: Caller's name or account/identification number

2) Originating Number: Caller's phone number3) Called Party Name: Called party's name

4) Terminating Number: Called party's phone number

5) Date: Date of call 6) Time: Time of call

7) Filename: Filename of audio file

V. Video Files

Video files must be produced in a format that is playable using Microsoft Windows Media Player™.

VI. Electronic Trade and Bank Records

When producing electronic trade records, bank records, or financial statements, provide the files in one of the following formats:

- 1. MS Excel spreadsheet with header information detailing the field structure. If any special codes exist in the dataset, a separate document must be provided that details all such codes. If details of the field structure do not fit in the header, a separate document must be provided that includes such details.
- 2. Delimited text file with header information detailing the field structure. The preferred delimiter is a vertical bar "|". If any special codes exist in the dataset, a separate document must be provided that details all such codes. If details of the field structure do not fit in the header, a separate document must be provided that includes such details.

VII. Electronic Phone Records

When producing an MS Excel spreadsheet for electronic phone records, provide the files in the following format:

- 1. MS Excel spreadsheet with header information detailing the field structure. If any special codes exist in the dataset, a separate document must be provided that details all such codes. If details of the field structure do not fit in the header, a separate document must be provided that includes such details. Data must be formatted in its native format (i.e. dates in a date format, numbers in an appropriate numerical format, and numbers with leading zeroes as text).
 - a. The metadata that must be included is outlined in **Addendum B** of this document. Each field of data must be loaded into a separate column. For example, Date and Start_Time must be produced in separate columns and not combined into a single column containing both pieces of information. Any fields of data that are provided in addition to those listed in **Addendum B** must also be loaded into separate columns.

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Data Delivery Standards

VIII. Audit Workpapers

The SEC prefers for workpapers to be produced in two formats: (1) With Bates numbers in accordance with the SEC Data Delivery Standards; and (2) in native format or if proprietary software was used, on a standalone laptop with the appropriate software loaded so that the workpapers may be reviewed as they would have been maintained in the ordinary course of business. The laptop must have printing capability, and when possible, the laptop should be configured to enable a Virtual Machine (VM) environment.

IX. Mobile Device Data

Before producing any mobile device data (including but not limited to text messages and application data) parties should reach out to the requesting SEC staff member in order to discuss the appropriate production format.

ADDENDUM A

The metadata of electronic document collections should be extracted and provided in a .DAT file using the field definition and formatting described below:

Field Name	Sample Data	Description	
FIRSTBATES	EDC0000001	First Bates number of native file document/email	
LASTBATES	EDC0000001	Last Bates number of native file document/email **The LASTBATES field should be populated for single page documents/emails.	
ATTACHRANGE	EDC0000001 - EDC0000015	Bates number of the first page of the parent document to the Bates number of the last page of the last attachment "child" document	
BEGATTACH	EDC0000001	First Bates number of attachment range	
ENDATTACH	EDC0000015	Last Bates number of attachment range	
PARENT_BATES	EDC0000001	First Bates number of parent document/Email **This PARENT BATES field should be populated in each record representing an attachment "child" document	
CHILD_BATES	EDC0000002; EDC0000014	First Bates number of "child" attachment(s); can be more than one Bates number listed depending on the number of attachments **The CHILD BATES field should be populated in each record representing a "parent" document	
CUSTODIAN	Smith, John	Email: Mailbox where the email resided Native: Name of the individual or department from whose files the document originated	
FROM	John Smith	Email: Sender Native: Author(s) of document **semi-colon should be used to separate multiple entries	
ТО	Coffman, Janice; LeeW [mailto:LeeW@MSN.com]	Recipient(s) **semi-colon should be used to separate multiple entries	
CC	Frank Thompson [mailto: frank Thompson@cdt.com]	Carbon copy recipient(s) **semi-colon should be used to separate multiple entries	
BCC	John Cain	Blind carbon copy recipient(s) **scmi-colon should be used to separate multiple entries	
SUBJECT	Board Meeting Minutes	Email: Subject line of the email Native: Title of document (if available)	
FILE_NAME	BoardMeetingMinutes.doex	Native: Name of the original native file, including extension	
DATE_SENT	10/12/2010	Email: Date the email was sent Native: (empty)	
TIME_SENT/TIME _ZONE	07:05 PM GMT	Email: Time the email was sent/ Time zone in which the emails were standardized during conversion. Native: (empty) **This data must be a separate field and cannot be combined with the DATE_SENT field	
TIME_ZONE	GMT	The time zone in which the emails were standardized during conversion. Email: Time zone Native: (empty)	

LINK	D:\001\EDC0000001.msg	#*The linked file must be named per the FIRSTBATES number
MIME_TYPE	application/msword	The content type of an email or native file document as identified/extracted from the header
FILE_EXTEN	MSG	The file type extension representing the email or native file document; will vary depending on the format
AUTHOR	John Smith	Email: (cmpty) Native: Author of the document
LAST_AUTHOR	Jane Doc	Email: (empty) Native: Last Author of the document
DATE_CREATED	10/10/2010	Email: (empty) Native: Date the document was created
TIME_CREATED/T IME_ZONE	10:25 AM GMT	Email: (empty) Native: Time the document was created including time zone **This data must be a separate field and cannot be combined with the DATE_CREATED field
DATE_MOD	10/12/2010	Email: (cmpty) Native: Date the document was last modified
TIME_MOD/TIME_ ZONE	07:00 РМ GMT	Email: (cmpty) Native: Time the document was last modified including the time zone **This data must be a separate field and cannot be combined with the DATE MOD field
DATE_ACCESSD	10/12/2010	Email: (empty) Native: Date the document was last accessed
TIME_ACCESSD/T IME_ZONE	07:00 РМ GMT	Email: (empty) Native: Time the document was last accessed including the time zone **This data must be a separate field and cannot be combined with the DATE_ACCESSD field
PRINTED_DATE	10/12/2010	Email: (cmpty) Native: Date the document was last printed
FILE SIZE	5,952	Size of native file document/email in KB
PGCOUNT	1	Number of pages in native file document/email
РАТН	J:\Shared\SmithJ\October Agenda.doc	Email: (empty) Native: Path where native file document was stored including original file name.
INTFILEPATH	Personal Folders\Deleted Items\Board Meeting Minutes.msg	Email: original location of email including original file name. Native: (empty)
INTMSGID	<000805c2c71b\$75977050\$cb 8306d1@MSN>	Email: Unique Message ID Native: (empty)

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SIIA256	Return-Path: <example_from@dc.edu> X-SpamCatcher-Score:1[X] Reccived:from[136.167.40.119] (HELO dc.edu) by fe3.dc.edu (CommuniGate Pro SMTP4.1.8) with ESMTP-TLS id 61258719 for example_to@mail.dc.edu; Mon, 23 Aug 2004 11:40:10 - 0400 Message-ID: <4129F3CA.2020509@dc.edu> Date: Mon, 23 Aug 2005 11:40:36 -400 From: Taylor Evans <example_from@dc.edu> Uscr-Agent:Mozilla/5.0 (Windows;U; Windows NT 5.1: cn-US;rv:1.0.1) Gecko/20020823 Netscape/7.0 X-Accept-Language:en-us,en MIME-Version:1.0 To: Jon Smith <example_to@mail.dc.edu> Subject:Business Development Meeting Content-Type: text/plain;charset=us-ascii; format-flowed Content-Transfer-Encoding:7bit AD6128C5CA40164AF71A1E</example_to@mail.dc.edu></example_from@dc.edu></example_from@dc.edu>	Email: The email header information Native: (empty) SIIA-256 hash value of the document.
	FC800E12D2F195CE07BB5F8 C813B0888A2DDE6A06F	
OCRPATH	TEXT/001/EDC0000001.tx1	Path to extracted text of the native file

Sample Image Cross-Reference File:

IMG0000001,,E:\001\IMG0000001.TIF,Y,,,
IMG0000002,,E:\001\IMG0000002.TIF,,,,
IMG0000003,,E:\001\IMG0000003.TIF,,,,
IMG0000004,,E:\001\IMG0000004.TIF,Y,,,
IMG0000005,,E:\001\IMG0000005.TIF,Y,,,
IMG0000006,,E:\001\IMG0000006.TIF,y,,,

ADDENDUM B

For Electronic Phone Records, include the following fields in separate columns:

For Calls:

- 1) Account Number
- 2) Connection Date Date the call was received or made
- 3) Connection Time Time call was received or made
- 4) Seizure Time Time it took for the call to be placed in seconds
- 5) Originating Number Phone that placed the call
- 6) Terminating Number Phone that received the call
- 7) Elapsed Time The length of time the call lasted, preferably in seconds
- 8) End Time The time the call ended
- 9) Number Dialed Actual number dialed
- 10) IMEI Originating Unique id to phone used to make call
- 11) IMEI Terminating Unique id to phone used to receive call
- 12) IMSI Originating Unique id to phone used to make call
- 13) IMSI Terminating- Unique id to phone used to receive call
- 14) Call Codes Identify call direction or other routing information
- 15) Time Zone Time Zone in which the call was received or placed, if applicable

For Text messages:

- 1) Account Number
- 2) Connection Date Date the text was received or made
- 3) Connection Time Time text was received or made
- 4) Originating Number Who placed the text
- 5) Terminating Number Who received the text
- 6) IMEI Originating Unique id to phone used to make text
- 7) IMEI Terminating Unique id to phone used to receive text
- 8) IMSI Originating Unique id to phone used to make text
- 9) IMSI Terminating- Unique id to phone used to receive text
- 10) Text Code Identify text direction, or other text routing information
- 11) Text Type Code Type of text message (sent SMS, MMS, or other)
- 12) Time Zone Time Zone in which the call was received or placed, if applicable

For Mobile Data Usage:

- 1) Account Number
- 2) Connection Date Date the data was received or made
- 3) Connection Time Time data was received or made
- 4) Originating number Number that used data
- 5) IMEI Originating Unique id of phone that used data
- 6) IMSI Originating Unique id of phone that used data
- 7) Data or Data codes Identify data direction, or other data routing information
- 8) Time Zone Time Zone in which the call was received or placed, if applicable



UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Chicago Regional Office 175 West Jackson, Suite 1450 Chicago, IL 60604

DIVISION OF ENFORCEMENT

(b)(6); (b)(7))(C)
(b)(6);	@sec.gov

May 16, 2023

VIA EMAIL

ConsenSys Software, Inc. c/o Stephen Ehrenberg, Esq. James A. McDonald, Esq. Sullivan & Cromwell LLP 125 Broad Street
New York, NY 10004

Re: Ethereum 2.0 (C-08950)

Dear Mr. Ehrenberg:

The enclosed subpoena has been issued pursuant to a formal order entered by the United States Securities and Exchange Commission. Pursuant to Rule 8 of the United States Securities and Exchange Commission's Rules Relating to Investigations, 17 C.F.R. § 203.8, I have enclosed a subpoena for documents issued to ConsenSys Software, Inc. ("ConsenSys"), in connection with the above-referenced investigation.

This is a federal civil law enforcement investigation and you must produce all documents described in the attachment to the subpoena. You must provide these documents by <u>May 30</u>, 2023.

Please send the materials electronically to ENF-CPU@scc.gov with copies to @sec.gov and @sec.gov and @sec.gov. If you would like to use the Commission's secure electronic transfer site, Accellion/Kiteworks, please contact me and I will send you a link. If you prefer to send the materials on DVD or other electronic media, please send them to the following address:

ENF-CPU (U.S. Securities & Exchange Commission) 14420 ALBEMARLE POINT PL Suite 102 CHANTILLY, VA 20151-1750

In your cover letter(s) accompanying the production of responsive documents, please enclose a list briefly describing each item you send. The list should state to which paragraph(s) in the subpoena attachment each item responds. Please also state in the cover letter(s) whether you believe ConsenSys has met its obligations under the subpoena by searching carefully and thoroughly for everything called for by the subpoena, and sending it all to us. A copy of the subpoena should be included with the documents that are produced. Correspondence should reference case number, case name, and the name of the requesting SEC staff member.

Passwords for documents, files, compressed archives, and encrypted media should be provided separately either via email addressed to ENF-CPU@scc.gov, or in a separate cover letter mailed separately from the data. Password correspondence should reference case number, case name and requesting SEC staff member.

In addition, for any documents that qualify as records of regularly conducted activities under Federal Rule of Evidence 902(11), please have the appropriate representative(s) of ConsenSys complete a business records certification (a sample of which is enclosed) and return it with the document production. Execution of this certification may allow the Commission to introduce the documents provided by ConsenSys in any subsequent judicial proceeding, without requiring the testimony of a records custodian.

Please note that, in any matter in which enforcement action is ultimately deemed to be warranted, the Division of Enforcement will not recommend any settlement to the Commission unless the party wishing to settle certifies, under penalty of perjury, that all documents responsive to Commission subpoenas and formal and informal document requests in this matter have been produced.

This investigation is a non-public, fact-finding inquiry. We are trying to determine whether there have been any violations of the federal securities laws. The investigation and the subpoena do not mean that we have concluded that your client or anyone else has violated the law. Also, the investigation does not mean that we have a negative opinion of any person, entity or security. Enclosed is a copy of the Commission's Form 1662 entitled "Supplemental Information for Persons Requested to Supply Information Voluntarily or Directed to Supply Information Pursuant to a Commission Subpoena." Form 1662 explains how we may use the information ConsenSys provides to the Commission and has other important information.

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(b)(6); (b)(7)(C)	If you have any questions or would like to discuss this matter, you may call me at or (b)(6); (b)(7)(C) at (b)(6); (b)(7)(C)
	Sincerely,
	(b)(6); (b)(7)(C)
	Division of Enforcement

Enclosures:

Subpoena and Attachment SEC Data Delivery Standards SEC Form 1662

Declaration Certifying Records



SUBPOENA

UNITED STATES OF AMERICA SECURITIES AND EXCHANGE COMMISSION

In the Matter of Ethereum 2.0 (C-08950)

To:	ConsenSys Software, Inc.
	c/o Stephen Ehrenberg, Esq.
	James A. McDonald, Esq.
	Sullivan & Cromwell LLP
	125 Broad Street
	New York, NY 10004
	YOU MUST PRODUCE everything specified in the Attachment to this subpoena to officers of the Securities and Exchange Commission, at the place, date and time specified below:
	ENF-CPU, U.S. Securities and Exchange Commission, 14420 Albemarle Point Pl, Suite 102, Chantilly, VA 20151-1750, no later than May 30, 2023, at 9:30 a.m.
	YOU MUST TESTIFY before officers of the Securities and Exchange Commission, at the place, date and time specified below:
•	FEDERAL LAW REQUIRES YOU TO COMPLY WITH THIS SUBPOENA. You do not comply with this subpoena, the SEC may bring an action in Federal Court to enforce this oena. Failure to comply with a court order enforcing this subpoena may result in the court imposing a fine, imprisonment, or both.
ſ	(b)(6); (b)(7)(C)
Ву:	Date: <u>May 16, 2023</u>
	U.S. Securities and Exchange Commission
	Chicago Regional Office
	175 W. Jackson Blvd., Suite 1450
	Chicago, IL 60604-2511

I am an officer of the U.S. Securities and Exchange Commission authorized to issue subpoenas in this matter. The Securities and Exchange Commission has issued a formal order authorizing this investigation under: Section 20(a) of the Securities Act of 1933.

NOTICE TO WITNESS: If you claim a witness fee or mileage, submit this subpoena with the claim voucher

SUBPOENA ATTACHMENT FOR CONSENSYS SOFTWARE, INC. May 16, 2023

In the Matter of Ethereum 2.0 (C-08950)

A. Definitions

As used in this document subpoena, the words and phrases listed below shall have the following meanings:

- 1. "Relevant Period" means July 1, 2018 to the present.
- 2. "EIP" means Ethereum Improvement Proposal.
- 3. "ConsenSys" means the entity or business doing business under the name ConsenSys Software, Inc., including parents, subsidiaries, affiliates, predecessors, successors, officers, directors, employees, agents, general partners, limited partners, partnerships and aliases, owners, code names, or trade or business names used by any of the foregoing.
- 4. "The Merge" or "Ethereum 2.0" means the transition by the Ethereum blockchain of its consensus mechanism from proof-of-work to proof-of-stake.
- 5. "Beacon Chain" means the original proof-of-stake blockchain that was launched in 2020 that ran alongside the original proof-of-work Ethereum blockchain.
- 6. "ETH" means Ether or the native crypto asset for the Ethereum blockchain and network.
- 7. "Crypto Assets" includes, but is not limited to, digital currencies, virtual currencies, cryptocurrencies, security tokens, digital assets, virtual coins, digital coins, virtual tokens, digital tokens, and nonfungible tokens.
- 8. "Ethereum Foundation" means the entity or business doing business under the name Ethereum Foundation, including parents, subsidiaries, affiliates, predecessors, successors, officers, directors, employees, agents, general partners, limited partners, partnerships and aliases, owners, code names, or trade or business names used by any of the foregoing.
- 9. "Document" includes, but is not limited to, any written, printed, or typed matter including, but not limited to all drafts and copies bearing notations or marks not found in the original, letters and correspondence, interoffice communications, slips, tickets, records, worksheets, financial records, accounting documents, bookkeeping documents, memoranda, reports, manuals, telephone logs, telegrams, facsimiles, messages of any type, telephone messages, voice mails, tape recordings, notices, instructions, minutes, summaries, notes of meetings, file folder markings, and any other organizational indicia, purchase orders, information recorded by photographic process, including microfilm and microfiche, computer printouts, spreadsheets, and other electronically stored information, including but not limited to writings, drawings, graphs, charts,

- photographs, sound recordings, images, and other data or data compilations that are stored in any medium from which information can be retrieved, obtained, manipulated, or translated.
- 10. "Social Media Service" means any social media or messaging service, including, but not limited to, Twitter, Discord, Medium, Telegram, Facebook, Instagram, Slack, WeChat, Reddit, or YouTube.
- 11. "Communication" means any correspondence, contact, discussion, e-mail, instant message, or any other kind of oral or written exchange or transmission of information (in the form of facts, ideas, inquiries, or otherwise), including but not limited to those made on Social Media Services, and any response thereto between two or more Persons or entities, including, without limitation, all telephone conversations, face-to-face meetings or conversations, internal or external discussions, or exchanges of a Document or Documents.
- 12. "Concerning" means directly or indirectly, in whole or in part, describing, constituting, evidencing, recording, evaluating, substantiating, concerning, referring to, alluding to, in connection with, commenting on, relating to, regarding, discussing, showing, analyzing or reflecting.
- 13. "Agreement" means any actual or contemplated (i) written or oral Agreement; (ii) term or provision of such Agreement; or (iii) amendment of any nature or termination of such Agreement. A request for any Agreement among or between specified parties includes a request for all Documents Concerning (i) any actual or contemplated Agreement among or between such parties, whether or not such Agreement included any other Person; (ii) the drafting or negotiation of any such Agreement; (iii) any actual or contemplated demand, request or application for any such Agreement, and any response thereto; and (iv) any actual or contemplated objection or refusal to enter into any such Agreement, and any response thereto.
- 14. "Person" means a natural person, firm, association, organization, partnership, business, trust, corporation, bank or any other private or public entity.
- 15. The term "you" and "your" means the Person or entity to whom this subpoena was issued.
- 16. To the extent necessary to bring within the scope of this subpoena any information or Documents that might otherwise be construed to be outside its scope:
 - a. the word "or" means "and/or";
 - b. the word "and" means "and/or";
 - c. the functional words "each," "every" "any" and "all" shall each be deemed to include each of the other functional words;
 - d. the masculine gender includes the female gender and the female gender includes the masculine gender; and
 - e. the singular includes the plural and the plural includes the singular.

Instructions

В.

- 1. Unless otherwise specified, the subpoena calls for production of the original Documents and all copies and drafts of same. Documents responsive to this subpoena may be in electronic or paper form. Electronic Documents such as email should be produced in accordance with the attached document entitled SEC Data Delivery Standards. All electronic Documents responsive to the subpoena, including all metadata, should also be produced in their native software format.
- 2. For Documents in paper format, you may send the originals, or, if you prefer, you may send copies of the originals. The Commission cannot reimburse you for the copying costs. If you are sending copies, the staff requests that you scan (rather than photocopy) hard copy Documents and produce them in an electronic format consistent with the SEC Data Delivery Standards. Alternatively, you may send us photocopies of the Documents in paper format. If you choose to send copies, you must secure and retain the originals and store them in a safe place. The staff may later request or require that you produce the originals.
- 3. Whether you scan or photocopy Documents, the copies must be identical to the originals, including even faint marks or print. Also, please note that if copies of a Document differ in any way, they are considered separate Documents and you must send each one. For example, if you have two copies of the same letter, but only one of them has handwritten notes on it, you must send both the clean copy and the one with notes.
- 4. In producing a photocopy of an original Document that contains post-it(s), notation flag(s), or other removable markings or attachments which may conceal all or a portion of the markings contained in the original Document, photocopies of the original Document both with and without the relevant post-it(s), notation flag(s), or removable markings or attachments should be produced.
- 5. Documents should be produced as they are kept in the ordinary course of business or be organized and labeled to correspond with the categories in this subpoena. In that regard, Documents should be produced in a unitized manner, *i.e.*, delineated with staples or paper clips to identify the Document boundaries.
- 6. Documents should be labeled with sequential numbering (bates-stamped).
- 7. The scope of any given request should not be limited or narrowed based on the fact that it calls for Documents that are responsive to another request.
- 8. You are not required to produce exact duplicates of any Documents that have been previously produced to the Securities and Exchange Commission staff in connection with this matter. If you are not producing Documents based upon a prior production, please identify the responsive Documents that were previously produced.
- 9. For any Documents that qualify as records of regularly conducted activities under

Federal Rule of Evidence 902(11), please complete a business records certification (a sample of which is enclosed) and return it with the Document production.

- 10. This subpoena covers all Documents in or subject to your possession, custody or control, including all Documents that are not in your immediate possession but that you have the effective ability to obtain, that are responsive, in whole or in part, to any of the individual requests set forth below. If, for any reason including a claim of attorney-client privilege you do not produce something called for by the subpoena, you should submit a list of what you are not producing. The list should be produced as an Excel file and describe each item separately, noting:
 - a. its author(s);
 - b. its date;
 - c. its subject matter;
 - d. the name of the Person who has the item now, or the last Person known to have it;
 - e. the names of everyone who ever had the item or a copy of it, and the names of everyone who was told the item's contents;
 - f. the basis upon which you are not producing the responsive Document;
 - g. the specific request in the subpoena to which the Document relates;
 - h. the attorney(s) and the client(s) involved; and
 - i. in the case of the work product doctrine, the litigation for which the Document was prepared in anticipation.
- 11. If Documents responsive to this subpoena no longer exist because they have been lost, discarded, or otherwise destroyed, you should identify such Documents and give the date on which they were lost, discarded or destroyed.

D. Documents to be Immediately Preserved and Produced

- 1. With respect to **EIP-1159**, or the provision of a new fee structure for transactions, provide the following:
 - a. All Agreements between ConsenSys and any third party;
 - b. All Documents and Communications with any ConsenSys customer;
 - c. Documents sufficient to identify all meetings with third parties, including any Documents related to the meetings identified;
 - d. All public statements by ConsenSys, including, but not limited to, public statements made by employees of ConsenSys, including, but not limited to, press releases, reports, guides, marketing materials, web pages, blog posts, or posts made on a Social Media Service;
 - e. A list of, or Documents sufficient to identify, ConsenSys developers including their GitHub handles and given names who contributed any

- coding, including, but not limited to, any person affiliated with ConsenSys with "maintain" or "admin" permissions;
- f. Documents sufficient to identify GitHub repositories, including any private repositories, ConsenSys developers contributed to in connection with coding; and
- All Communications with the Ethereum Foundation and Ethereum.org, g. including, but not limited to, Communications with board members, consultants, officers, directors, employees, developers, coders, and others performing work on behalf of these entities.
- 2. With respect to **EIP-2982**, or the launch of the Beacon Chain, provide the following:
 - All Agreements between ConsenSys and any third party; a.
 - All Documents and Communications with any ConsenSys customer; b.
 - Documents sufficient to identify all meetings with third parties, including C. any Documents related to the meetings identified;
 - d. All public statements by ConsenSys, including, but not limited to, public statements made by employees of ConsenSys, including, but not limited to, press releases, reports, guides, marketing materials, web pages, blog posts, or posts made on a Social Media Service;
 - A list of, or Documents sufficient to identify, ConsenSys developers e. including their GitHub handles and given names – who contributed any coding, including, but not limited to, any person affiliated with ConsenSys with "maintain" or "admin" permissions;
 - f. Documents sufficient to identify GitHub repositories, including any private repositories, ConsenSys developers contributed to in connection with coding; and
 - All Communications with the Ethereum Foundation and Ethereum.org, g. including, but not limited to, Communications with board members, consultants, officers, directors, employees, developers, coders, and others performing work on behalf of these entities.
- 3. With respect to **EIP-3675**, or the Merge, provide the following:
 - All Agreements between ConsenSys and any third party; a.
 - All Documents and Communications with any ConsenSys customer; b.
 - C. Documents sufficient to identify all meetings with third parties, including any Documents related to the meetings identified;

d. All public statements by ConsenSys, including, but not limited to, public statements made by employees of ConsenSys, including, but not limited to, press releases, reports, guides, marketing materials, web pages, blog posts, or posts made on a Social Media Service;

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- e. A list of, or Documents sufficient to identify, ConsenSys developers including their GitHub handles and given names—who contributed any coding, including, but not limited to, any person affiliated with ConsenSys with "maintain" or "admin" permissions;
- f. Documents sufficient to identify GitHub repositories, including any private repositories, ConsenSys developers contributed to in connection with coding; and
- g. All Communications with the Ethereum Foundation and Ethereum.org, including, but not limited to, Communications with board members, consultants, officers, directors, employees, developers, coders, and others performing work on behalf of these entities.
- 4. With respect to **EIP-4895**, or enabling withdrawals of staked ETH by validators, provide the following:
 - a. All Agreements between ConsenSys and any third party;
 - b. All Documents and Communications with any ConsenSys customer;
 - c. Documents sufficient to identify all meetings with third parties, including any Documents related to the meetings identified;
 - d. All public statements by ConsenSys, including, but not limited to, public statements made by employees of ConsenSys, including, but not limited to, press releases, reports, guides, marketing materials, web pages, blog posts, or posts made on a Social Media Service;
 - e. A list of, or Documents sufficient to identify, ConsenSys developers including their GitHub handles and given names—who contributed any coding, including, but not limited to, any person affiliated with ConsenSys with "maintain" or "admin" permissions;
 - f. Documents sufficient to identify GitHub repositories, including any private repositories, ConsenSys developers contributed to in connection with coding; and
 - g. All Communications with the Ethereum Foundation and Ethereum.org, including, but not limited to, Communications with board members, consultants, officers, directors, employees, developers, coders, and others performing work on behalf of these entities.
- 5. With respect to the website https://launchpad.ethereum.org, or any content published on the Launchpad's website, provide the following:

- a. All Agreements between ConsenSys and any third party;
- b. All Documents and Communications with any ConsenSys customer;
- c. Documents sufficient to identify all meetings with third parties, including any Documents related to the meetings identified;
- d. All public statements by ConsenSys, including, but not limited to, public statements made by employees of ConsenSys, including, but not limited to, press releases, reports, guides, marketing materials, web pages, blog posts, or posts made on a Social Media Service;
- e. A list of, or Documents sufficient to identify, ConsenSys developers including their GitHub handles and given names—who contributed any coding, including, but not limited to, any person affiliated with ConsenSys with "maintain" or "admin" permissions;
- f. Documents sufficient to identify GitHub repositories, including any private repositories, ConsenSys developers contributed to in connection with coding; and
- g. All Communications with the Ethereum Foundation and Ethereum.org, including, but not limited to, Communications with board members, consultants, officers, directors, employees, developers, coders, and others performing work on behalf of these entities.
- 6. With respect to "ConsenSys Staking," as that is defined at https://consensys.net/staking/, provide the following:
 - a. All Agreements between ConsenSys and any customer Concerning the Beacon Chain and Ethereum 2.0;
 - b. All Documents and Communications with any ConsenSys customer;
 - c. Documents sufficient to identify all meetings with third parties, including any Documents related to the meetings identified;
 - d. All public statements by ConsenSys, including, but not limited to, public statements made by employees of ConsenSys, including, but not limited to, press releases, reports, guides, marketing materials, web pages, blog posts, or posts made on a Social Media Service;
 - e. A list of, or Documents sufficient to identify, any amount(s) of ETH staked (either directly or indirectly) by ConsenSys on the Beacon Chain and the date(s) of deposit. Your response should include any ETH staked by ConsenSys or for its own benefit or for the benefit of any customer using ConsenSys Staking or through any other arrangement. Please also include in your response the name of the customer, the amount(s) staked, and the date(s) of deposit;

- f. A list of, or Documents sufficient to identify, ConsenSys developers including their GitHub handles and given names—who contributed any coding, including, but not limited to, any person affiliated with ConsenSys with "maintain" or "admin" permissions;
- g. Documents sufficient to identify GitHub repositories, including any private repositories, ConsenSys developers contributed to in connection with coding; and
- h. Git bundle file(s) for any repositories identified in response to Request 6(f).
- 7. All Documents Concerning any legal analysis of ETH issued after the Merge. Please note that the above Instructions discuss the procedures for how to handle privileged documents.
- 8. All Documents and Communications Concerning the failure by the Ethereum blockchain to finalize transactions for a period of time on May 11, 2023.



U.S. Securities and Exchange Commission

Data Delivery Standards

This document describes the technical requirements for paper and electronic document productions to the U.S. Securities and Exchange Commission (SEC). **Any questions or proposed file formats other than those described below must be discussed with the legal and technical staff of the SEC Division of Enforcement prior to submission.**

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General Instructions

The current mailing address for all physical productions sent to the SEC is:

ENF-CPU (U.S. Securities & Exchange Commission), 14420 Albemarle Point Place, Suite 102, Chantilly, VA 20151-1750

Electronic files must be produced in their native format, i.e. the format in which they are ordinarily used and maintained during the normal course of business. For example, an MS Excel file must be produced as an MS Excel file rather than an image of a spreadsheet. (Note: An Adobe PDF file is <u>not</u> considered a native file unless the document was initially created as a PDF.)

In the event produced files require the use of proprietary software not commonly found in the workplace, the SEC will explore other format options with the producing party.

The proposed use of file de-duplication methodologies or *computer-assisted review* or *technology-assisted review* (TAR) during the processing of documents must be discussed with and approved by the legal and technical staff of the Division of Enforcement (ENF). If your production will be de-duplicated it is vital that you 1) preserve any unique metadata associated with the duplicate files, for example, custodian name and file location and, 2) make that unique metadata part of your production to the SEC.

General requirements for ALL document productions are:

- 1. A cover letter must be included with each production and should include the following information:
 - Case number, ease name and requesting SEC staff member name
 - A list of each piece of media included in the production with its unique production volume number
 - A list of custodians, identifying the Bates range for each custodian
 - d. A list of redacted documents and the redaction reason
 - e. The time zone in which the emails were standardized during conversion
 - f. Whether the production contains native files produced from Mac operating system environments
- Data can be produced on CD, DVD, thumb drive, etc., using the media requiring the least number of deliverables and labeled with the following:
 - a. Case number
 - b. Production date
 - c. Producing party
 - d. Bates range (if applicable)
- All submissions must be organized by custodian unless otherwise instructed.
- All document family groups, i.e. email attachments, embedded files, etc., should be produced together and children files should follow parent files sequentially in the Bates numbering.
- All load-ready collections should include only one data load file and one image pointer file.
- All load-ready text must be produced as separate document-level text files.
- All load-ready collections should account for custodians in the custodian field.
- All load-ready collections must provide the extracted contents of any container files to ensure all relevant files are produced as separate records.
- Audio files should be separated from data files if both are included in the production.
- 10. Only alphanumeric characters and the underscore character are permitted in file names and folder names. Special characters are not permitted.
- 11. All electronic productions submitted on media must be produced using industry standard self-extracting encryption software.
- 12. The SEC uses 7zip to access compressed files. Note that the SEC cannot accept files that use AES-256 Jpeg or pkAES-256-Cert Deflate compression methods, even if the files are created with 7zip. If you have any questions or need additional information, please reach out to the requesting SEC staff member.
- 13. Electronic productions of 20 GB or less are strongly encouraged to be submitted via Secure File Transfer. All Secure File Transfers should be sent to the SEC Centralized Production Unit (ENF-CPU@sec.gov) with a CC to the requesting SEC staff member. If you do not have your own Secure File Transfer application, you may reach out to the requesting SEC staff member for a link to the SEC system in order to upload your production. If using the SEC Secure File Transfer system, you will NOT be able to CC individuals outside the SEC on your upload transmission. Note that the SEC cannot accept productions made using file sharing sites such as Google Drive, Microsoft Office 365 or Dropbox.
- 14. Productions containing BSA or SAR material must be encrypted. Secure File Transfer applications may be used to produce BSA or SAR material. BSA or SAR material should be segregated and appropriately marked as BSA or SAR, or should be produced separately from other case related records.
- 15. Passwords for electronic documents, files, compressed archives and encrypted media must be provided separately either via email or in a cover letter apart from the media.
- 16. All electronic productions should be produced free of computer viruses.
- 17. Before producing forensically collected images, parties should reach out to the requesting SEC staff member in order to discuss appropriate handling.
- 18. Before producing unique data sets (large sets of relational data, website reconstruction, chat room data, etc.), parties should reach out to the requesting SEC staff member in order to discuss an appropriate production format.
- Additional technical descriptions can be found in the addendum to this document.

Please note that productions sent to the SEC via United States Postal Service are subject to Mail Irradiation, and as a result electronic productions may be damaged.

Delivery Formats

I. Imaged Productions

The SEC prefers that all scanned paper and electronic file collections be produced in a structured format including industry standard load files, Bates numbered image files, native files and searchable document-level text files. Bates numbers should not contain spaces. Hyphens (-) and underscores (_) are acceptable.

1. Images

- a. Black and white images must be 300 DPI Group IV single-page TIFF files
- b. Color images must be produced in JPEG format
- c. File names cannot contain embedded spaces or special characters (including the comma)
- d. Folder names cannot contain embedded spaces or special characters (including the comma)
- c. All image files must have a unique file name, i.e. Bates number
- f. Images must be endorsed with sequential Bates numbers in the lower right corner of each image
- g. The number of image files per folder should not exceed 2,000 files
- h. Excel spreadsheets should have a placeholder image named by the Bates number of the file
- i. AUTOCAD/photograph files should be produced as a single page JPEG file

2. Image Cross-Reference File

The image cross-reference file (.LOG or .OPT) links the images to the database records. It should be a comma-delimited file consisting of seven fields per line with a line in the cross-reference file for every image in the database with the following format:

ImageID, VolumeLabel, ImageFilePath, DocumentBreak, FolderBreak, BoxBreak, PageCount

3. Data File

The data file (.DAT) contains all of the fielded information that will be loaded into the database.

- a. The first line of the .DAT file must be a header row identifying the field names
- b. The .DAT file must use the following Concordance® default delimiters:

Comma ¶ ASCII character (020)

Quote b ASCII character (254)

- c. If the .DAT file is produced in Unicode format it must contain the byte order marker
- d. Date fields should be provided in the format: mm/dd/yyyy
- e. Date and time fields must be two separate fields
- f. The time zone must be included in all time fields
- g. If the production includes imaged emails and attachments, the attachment fields must be included to preserve the parent/child relationship between an email and its attachments
- h. An OCRPATH field must be included to provide the file path and name of the extracted text file on the produced storage media. The text file must be named after the FIRSTBATES. Do not include the text in the .DAT file.
- i. For productions with native files, a LINK field must be included to provide the file path and name of the native file on the produced storage media. The native file must be named after the FIRSTBATES.
- j. BEGATTACH and ENDATTACH fields must be two separate fields
- k. A complete list of metadata fields is available in Addendum A to this document

4. Text

Text must be produced as separate document-level text files, not as fields within the .DAT file. The text files must be named per the FIRSTBATES/Image Key and the full path to the text file (OCRPATH) should be included in the .DAT file. Text files may be in either ANSI or Unicode format, however, ALL text files must be in the same format within the same production. Note that productions containing text with foreign characters must produce text files in Unicode format to preserve the foreign characters. Text files must be in a separate folder, and the number of text files per folder should not exceed 2,000 files. There should be no special characters (including commas) in the folder names. For redacted documents, provide the full text for the redacted version.

5. Linked Native Files

Copies of original email and native file documents/attachments must be included for all electronic productions.

- a. Native file documents must be named per the FIRSTBATES number
- b. The full path of the native file must be provided in the .DAT file for the LINK field
- e. The number of native files per folder should not exceed 2,000 files

11. Native File Production without Load Files

With prior approval, native files may be produced without load files. Native file productions should not be Bates numbered. Native files must be produced as they are maintained in the normal course of business and organized by custodian-named file folders. Native email files (.PST or .MBOX) must be separated by custodian.

III. Adobe PDF File Production

With prior approval, Adobe PDF files may be produced in native file format.

- 1. All PDFs must be unitized at the document level, i.e., each PDF must represent a discrete document.
- 2. PDF files should be produced in separate folders named by the custodian. The folders should not contain any special characters (including commas).
- 3. All PDF files must contain embedded text that includes all discernible words within the document, not selected text or image only. This requires all layers of the PDF to be flattened first.
- 4. If PDF files are Bates endorsed, the PDF files must be named by the Bates range.

IV. Audio Files

Audio files from telephone recording systems must be produced in a format that is playable using Microsoft Windows Media PlayerTM. Additionally, the call information (metadata) related to each audio recording MUST be provided. The metadata file must be produced in a delimited text format. Field names must be included in the first row of the text file. The metadata must include, at a minimum, the following fields:

1) Caller Name: Caller's name or account/identification number

2) Originating Number: Caller's phone number3) Called Party Name: Called party's name

4) Terminating Number: Called party's phone number

5) Date: Date of call
6) Time: Time of call

7) Filename: Filename of audio file

V. Video Files

Video files must be produced in a format that is playable using Microsoft Windows Media Player™.

VI. Electronic Trade and Bank Records

When producing electronic trade records, bank records, or financial statements, provide the files in one of the following formats:

- 1. MS Excel spreadsheet with header information detailing the field structure. If any special codes exist in the dataset, a separate document must be provided that details all such codes. If details of the field structure do not fit in the header, a separate document must be provided that includes such details.
- 2. Delimited text file with header information detailing the field structure. The preferred delimiter is a vertical bar "|". If any special codes exist in the dataset, a separate document must be provided that details all such codes. If details of the field structure do not fit in the header, a separate document must be provided that includes such details.

VII. Electronic Phone Records

When producing an MS Excel spreadsheet for electronic phone records, provide the files in the following format:

- 1. MS Excel spreadsheet with header information detailing the field structure. If any special codes exist in the dataset, a separate document must be provided that details all such codes. If details of the field structure do not fit in the header, a separate document must be provided that includes such details. Data must be formatted in its native format (i.e. dates in a date format, numbers in an appropriate numerical format, and numbers with leading zeroes as text).
 - a. The metadata that must be included is outlined in **Addendum B** of this document. Each field of data must be loaded into a separate column. For example, Date and Start_Time must be produced in separate columns and not combined into a single column containing both pieces of information. Any fields of data that are provided in addition to those listed in **Addendum B** must also be loaded into separate columns.

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VIII. Audit Workpapers

The SEC prefers for workpapers to be produced in two formats: (1) With Bates numbers in accordance with the SEC Data Delivery Standards; and (2) in native format or if proprietary software was used, on a standalone laptop with the appropriate software loaded so that the workpapers may be reviewed as they would have been maintained in the ordinary course of business. The laptop must have printing capability, and when possible, the laptop should be configured to enable a Virtual Machine (VM) environment.

IX. Mobile Device Data

Before producing any mobile device data (including but not limited to text messages and application data) parties should reach out to the requesting SEC staff member in order to discuss the appropriate production format.

ADDENDUM A

The metadata of electronic document collections should be extracted and provided in a .DAT file using the field definition and formatting described below:

Field Name	Sample Data	Description	
FIRSTBATES	EDC0000001	First Bates number of native file document/email	
LASTBATES	EDC0000001	Last Bates number of native file document/email **The LASTBATES field should be populated for single page documents/emails.	
ATTACHRANGE	EDC0000001 - EDC0000015	Bates number of the first page of the parent document to the Bates number of the last page of the last attachment "child" document	
BEGATTACH	EDC0000001	First Bates number of attachment range	
ENDATTACH	EDC0000015	Last Bates number of attachment range	
PARENT_BATES	EDC0000001	First Bates number of parent document/Email **This PARENT BATES field should be populated in each record representing an attachment "child" document	
CHILD_BATES	EDC0000002; EDC0000014	First Bates number of "child" attachment(s); can be more than one Bates number listed depending on the number of attachments **The CHILD BATES field should be populated in each record representing a "parent" document	
CUSTODIAN	Smith, John	Email: Mailbox where the email resided Native: Name of the individual or department from whose files the document originated	
FROM	John Smith	Email: Sender Native: Author(s) of document **semi-colon should be used to separate multiple entries	
ТО	Coffman, Janice; LeeW [mailto:LeeW@MSN.com]	Recipient(s) **semi-colon should be used to separate multiple entries	
CC	Frank Thompson [mailto: frank Thompson@cdt.com]	Carbon copy recipient(s) **semi-colon should be used to separate multiple entries	
BCC	John Cain	Blind carbon copy recipient(s) **scmi-colon should be used to separate multiple entries	
SUBJECT	Board Meeting Minutes	Email: Subject line of the email Native: Title of document (if available)	
FILE_NAME	BoardMeetingMinutes.doex	Native: Name of the original native file, including extension	
DATE_SENT	10/12/2010	Email: Date the email was sent Native: (empty)	
TIME_SENT/TIME _ZONE	07:05 PM GMT	Email: Time the email was sent/ Time zone in which the emails were standardized during conversion. Native: (empty) **This data must be a separate field and cannot be combined with the DATE_SENT field	
TIME_ZONE	GMT	The time zone in which the emails were standardized during conversion. Email: Time zone Native: (empty)	

LINK	D:\001\EDC0000001.msg	#*The linked file must be named per the FIRSTBATES number
MIME_TYPE	application/msword	The content type of an email or native file document as identified/extracted from the header
FILE_EXTEN	MSG	The file type extension representing the email or native file document; will vary depending on the format
AUTHOR	John Smith	Email: (cmpty) Native: Author of the document
LAST_AUTHOR	Jane Doc	Email: (empty) Native: Last Author of the document
DATE_CREATED	10/10/2010	Email: (empty) Native: Date the document was created
TIME_CREATED/T IME_ZONE	10:25 AM GMT	Email: (empty) Native: Time the document was created including time zone **This data must be a separate field and cannot be combined with the DATE_CREATED field
DATE_MOD	10/12/2010	Email: (cmpty) Native: Date the document was last modified
TIME_MOD/TIME_ ZONE	07:00 РМ GMT	Email: (cmpty) Native: Time the document was last modified including the time zone **This data must be a separate field and cannot be combined with the DATE MOD field
DATE_ACCESSD	10/12/2010	Email: (empty) Native: Date the document was last accessed
TIME_ACCESSD/T IME_ZONE	07:00 РМ GMT	Email: (empty) Native: Time the document was last accessed including the time zone **This data must be a separate field and cannot be combined with the DATE_ACCESSD field
PRINTED_DATE	10/12/2010	Email: (cmpty) Native: Date the document was last printed
FILE SIZE	5,952	Size of native file document/email in KB
PGCOUNT	1	Number of pages in native file document/email
РАТН	J:\Shared\SmithJ\October Agenda.doc	Email: (empty) Native: Path where native file document was stored including original file name.
INTFILEPATH	Personal Folders\Deleted Items\Board Meeting Minutes.msg	Email: original location of email including original file name. Native: (empty)
INTMSGID	<000805c2c71b\$75977050\$cb 8306d1@MSN>	Email: Unique Message ID Native: (empty)

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HEADER	Return-Path: <example_from@dc.edu> X-SpamCatcher-Score:1[X] Reccived:from[136.167.40.119] (HELO dc.edu) by fe3.dc.edu (CommuniGate Pro SMTP4.1.8) with ESMTP-TLS id 61258719 for example_to@mail.dc.edu; Mon, 23 Aug 2004 11:40:10 - 0400 Message-ID: <4129F3CA.2020509@dc.edu> Date: Mon, 23 Aug 2005 11:40:36 -400 From: Taylor Evans <example_from@dc.edu> Uscr-Agent:Mozilla/5.0 (Windows;U; Windows NT 5.1: cn-US;rv:1.0.1) Gecko/20020823 Netscape/7.0 X-Accept-Language:en-us,en MIME-Version:1.0 To: Jon Smith <example_to@mail.dc.edu> Subject:Business Development Mccting Content-Type: text/plain;charset=us-ascii; format=flowed Content-Transfer-Encoding:7bit</example_to@mail.dc.edu></example_from@dc.edu></example_from@dc.edu>	Email: The email header information Native: (empty)
SIIA256	AD6128C5CA40164AF71A1E FC800E12D2F195CE07BB5F8 C813B0888A2DDE6A06F	SHA-256 hash value of the document.
OCRPATH	TEXT/001/EDC0000001.txt	Path to extracted text of the native file

Sample Image Cross-Reference File:

IMG0000001,,E:\001\IMG0000001.TIF,Y,,,
IMG0000002,,E:\001\IMG0000002.TIF,,,,
IMG0000003,,E:\001\IMG0000003.TIF,,,,
IMG0000004,,E:\001\IMG0000004.TIF,Y,,,
IMG0000005,,E:\001\IMG0000005.TIF,Y,,,
IMG0000006,,E:\001\IMG0000006.TIF,y,,,

ADDENDUM B

For Electronic Phone Records, include the following fields in separate columns:

For Calls:

- 1) Account Number
- 2) Connection Date Date the call was received or made
- 3) Connection Time Time call was received or made
- 4) Seizure Time Time it took for the call to be placed in seconds
- 5) Originating Number Phone that placed the call
- 6) Terminating Number Phone that received the call
- 7) Elapsed Time The length of time the call lasted, preferably in seconds
- 8) End Time The time the call ended
- 9) Number Dialed Actual number dialed
- 10) IMEI Originating Unique id to phone used to make call
- 11) IMEI Terminating Unique id to phone used to receive call
- 12) IMSI Originating Unique id to phone used to make call
- 13) IMSI Terminating- Unique id to phone used to receive call
- 14) Call Codes Identify call direction or other routing information
- 15) Time Zone Time Zone in which the call was received or placed, if applicable

For Text messages:

- 1) Account Number
- 2) Connection Date Date the text was received or made
- 3) Connection Time Time text was received or made
- 4) Originating Number Who placed the text
- 5) Terminating Number Who received the text
- 6) IMEI Originating Unique id to phone used to make text
- 7) IMEI Terminating Unique id to phone used to receive text
- 8) IMSI Originating Unique id to phone used to make text
- 9) IMSI Terminating- Unique id to phone used to receive text
- 10) Text Code Identify text direction, or other text routing information
- 11) Text Type Code Type of text message (sent SMS, MMS, or other)
- 12) Time Zone Time Zone in which the call was received or placed, if applicable

For Mobile Data Usage:

- 1) Account Number
- 2) Connection Date Date the data was received or made
- 3) Connection Time Time data was received or made
- 4) Originating number Number that used data
- 5) IMEI Originating Unique id of phone that used data
- 6) IMSI Originating Unique id of phone that used data
- 7) Data or Data codes Identify data direction, or other data routing information
- 8) Time Zone Time Zone in which the call was received or placed, if applicable

SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549

Supplemental Information for Persons Requested to Supply Information Voluntarily or Directed to Supply Information Pursuant to a Commission Subpoena

A. False Statements and Documents

Section 1001 of Title 18 of the United States Code provides that fines and terms of imprisonment may be imposed upon:

[W]hoever, in any matter within the jurisdiction of the executive, legislative, or judicial branch of the Government of the United States, knowingly and willfully--

- (1) falsifies, conceals, or covers up by any trick, scheme, or device a material fact;
- (2) makes any materially false, fictitious, or fraudulent statement or representation; or
- (3) makes or uses any false writing or document knowing the same to contain any materially false, fictitious, or fraudulent statement or entry.

Section 1519 of Title 18 of the United States Code provides that fines and terms of imprisonment may be imposed upon:

Whoever knowingly alters, destroys, mutilates, conceals, covers up, falsifies, or makes a false entry in any record, document, or tangible object with the intent to impede, obstruct, or influence the investigation or proper administration of any matter within the jurisdiction of any department or agency of the United States . . ., or in relation to or contemplation of any such matter.

B. Testimony

If your testimony is taken, you should be aware of the following:

- 1. Record. Your testimony will be transcribed by a reporter. If you desire to go off the record, please indicate this to the Commission employee taking your testimony, who will determine whether to grant your request. The reporter will not go off the record at your, or your counsel's, direction.
- 2. Counsel. You have the right to be accompanied, represented and advised by counsel of your choice. Your counsel may advise you before, during and after your testimony; question you briefly at the conclusion of your testimony to clarify any of the answers you give during testimony; and make summary notes during your testimony solely for your use. If you are accompanied by counsel, you may consult privately.

If you are not accompanied by counsel, please advise the Commission employee taking your testimony if, during the testimony, you desire to be accompanied, represented and advised by counsel. Your testimony will be adjourned once to afford you the opportunity to arrange to be so accompanied, represented or advised.

You may be represented by counsel who also represents other persons involved in the Commission's investigation. This multiple representation, however, presents a potential conflict of interest if one client's interests are or may be adverse to another's. If you are represented by counsel who also represents other persons involved in the investigation, the Commission will assume that you and counsel have discussed and resolved all issues concerning possible conflicts of interest. The choice of counsel, and the responsibility for that choice, is yours.

3. Transcript Availability. Rule 6 of the Commission's Rules Relating to Investigations, 17 CFR 203.6, states:

A person who has submitted documentary evidence or testimony in a formal investigative proceeding shall be entitled, upon written request, to procure a copy of his documentary evidence or a transcript of his testimony on payment of the appropriate fees: *Provided, however*, That in a nonpublic formal investigative proceeding the Commission may for good cause deny such request. In any event, any witness, upon proper identification, shall have the right to inspect the official transcript of the witness' own testimony.

If you wish to purchase a copy of the transcript of your testimony, the reporter will provide you with a copy of the appropriate form. Persons requested to supply information voluntarily will be allowed the rights provided by this rule.

4. *Perjury.* Section 1621 of Title 18 of the United States Code provides that fines and terms of imprisonment may be imposed upon:

Whoever--

(1) having taken an oath before a competent tribunal, officer, or person, in any case in which a law of the United States authorizes an oath to be administered, that he will testify, declare, depose, or certify

truly, or that any written testimony, declaration, deposition, or certificate by him subscribed, is true, willfully and contrary to such oath states or subscribes any material matter which he does not believe to be true; or

- (2) in any declaration, certificate, verification, or statement under penalty of perjury as permitted under section 1746 of title 28. United States Code, willfully subscribes as true any material matter which he does not believe to be true.
- 5. Fifth Amendment and Voluntary Testimony. Information you give may be used against you in any federal, state, local or foreign administrative, civil or criminal proceeding brought by the Commission or any other agency.

You may refuse, in accordance with the rights guaranteed to you by the Fifth Amendment to the Constitution of the United States, to give any information that may tend to incriminate you.

If your testimony is not pursuant to subpoena, your appearance to testify is voluntary, you need not answer any question, and you may leave whenever you wish. Your cooperation is, however, appreciated.

Formal Order Availability. If the Commission has issued a formal order of investigation, it will be shown to you during your testimony, at your request. If you desire a copy of the formal order, please make your request in writing.

C. Submissions and Settlements

Rule 5(c) of the Commission's Rules on Informal and Other Procedures, 17 CFR 202.5(c), states:

Persons who become involved in . . . investigations may, on their own initiative, submit a written statement to the Commission setting forth their interests and position in regard to the subject matter of the investigation. Upon request, the staff, in its discretion, may advise such persons of the general nature of the investigation, including the indicated violations as they pertain to them, and the amount of time that may be available for preparing and submitting a statement prior to the presentation of a staff recommendation to the Commission for the commencement of an administrative or injunction proceeding. Submissions by interested persons should be forwarded to the appropriate Division Director or Regional Director with a copy to the staff members conducting the investigation and should be clearly referenced to the specific investigation to which they relate. In the event a recommendation for the commencement of an enforcement proceeding is presented by the staff, any submissions by interested persons will be forwarded to the Commission in conjunction with the staff memorandum.

The staff of the Commission routinely seeks to introduce submissions made pursuant to Rule 5(c) as evidence in Commission enforcement proceedings, when the staff deems appropriate.

Rule 5(f) of the Commission's Rules on Informal and Other Procedures, 17 CFR 202.5(f), states:

In the course of the Commission's investigations, civil lawsuits, and administrative proceedings, the staff, with appropriate authorization, may discuss with persons involved the disposition of such matters by consent, by settlement, or in some other manner. It is the policy of the Commission, however, that the disposition of any such matter may not, expressly or impliedly, extend to any criminal charges that have been, or may be, brought against any such person or any recommendation with respect thereto. Accordingly, any person involved in an enforcement matter before the Commission who consents, or agrees to consent, to any judgment or order does so solely for the purpose of resolving the claims against him in that investigative, civil, or administrative matter and not for the purpose of resolving any criminal charges that have been, or might be, brought against him. This policy reflects the fact that neither the Commission nor its staff has the authority or responsibility for instituting, conducting, settling, or otherwise disposing of criminal proceedings. That authority and responsibility are vested in the Attorney General and representatives of the Department of Justice.

D. Freedom of Information Act

The Freedom of Information Act, 5 U.S.C. 552 (the "FOIA"), generally provides for disclosure of information to the public. Rule 83 of the Commission's Rules on Information and Requests, 17 CFR 200.83, provides a procedure by which a person can make a written request that information submitted to the Commission not be disclosed under the FOIA. That rule states that no determination as to the validity of such a request will be made until a request for disclosure of the information under the FOIA is received. Accordingly, no response to a request that information not be disclosed under the FOIA is necessary or will be given until a request for disclosure under the FOIA is received. If you desire an acknowledgment of receipt of your written request that information not be disclosed under the FOIA, please provide a duplicate request, together with a stamped, self-addressed envelope.

E. Authority for Solicitation of Information

Persons Directed to Supply Information Pursuant to Subpoena. The authority for requiring production of information is set forth in the subpoena. Disclosure of the information to the Commission is mandatory, subject to the valid assertion of any legal right or privilege you might have.

Persons Requested to Supply Information Voluntarily. One or more of the following provisions authorizes the Commission to solicit the information requested: Sections 19 and/or 20 of the Securities Act of 1933; Section 21 of the Securities Exchange Act of 1934; Section 321 of the Trust Indenture Act of 1939; Section 42 of the Investment Company Act of 1940; Section 209 of the Investment Advisers Act of 1940; and 17 CFR 202.5. Disclosure of the requested information to the Commission is voluntary on your part.

F. Effect of Not Supplying Information

Persons Directed to Supply Information Pursuant to Subpoena. If you fail to comply with the subpoena, the Commission may seek a court order requiring you to do so. If such an order is obtained and you thereafter fail to supply the information, you may be subject to civil and/or criminal sanctions for contempt of court. In addition, Section 21(c) of the Securities Exchange Act of 1934, Section 42(c) of the Investment Company Act of 1940, and Section 209(c) of the Investment Advisers Act of 1940 provide that fines and terms of imprisonment may be imposed upon any person who shall, without just cause, fail or refuse to attend and testify or to answer any lawful inquiry, or to produce books, papers, correspondence, memoranda, and other records in compliance with the subpoena.

Persons Requested to Supply Information Voluntarily. There are no direct sanctions and thus no direct effects for failing to provide all or any part of the requested information.

G. Principal Uses of Information

The Commission's principal purpose in soliciting the information is to gather facts in order to determine whether any person has violated, is violating, or is about to violate any provision of the federal securities laws or rules for which the Commission has enforcement authority, such as rules of securities exchanges and the rules of the Municipal Securities Rulemaking Board. Facts developed may, however, constitute violations of other laws or rules. Information provided may be used in Commission and other agency enforcement proceedings. Unless the Commission or its staff explicitly agrees to the contrary in writing, you should not assume that the Commission or its staff acquiesces in, accedes to, or concurs or agrees with, any position, condition, request, reservation of right, understanding, or any other statement that purports, or may be deemed, to be or to reflect a limitation upon the Commission's receipt, use, disposition, transfer, or retention, in accordance with applicable law, of information provided.

H. Routine Uses of Information

The Commission often makes its files available to other governmental agencies, particularly United States Attorneys and state prosecutors. There is a likelihood that information supplied by you will be made available to such agencies where appropriate. Whether or not the Commission makes its files available to other governmental agencies is, in general, a confidential matter between the Commission and such other governmental agencies.

Set forth below is a list of the routine uses which may be made of the information furnished.

- 1. To appropriate agencies, entities, and persons when (a) it is suspected or confirmed that the security or confidentiality of information in the system of records has been compromised; (b) the SEC has determined that, as a result of the suspected or confirmed compromise, there is a risk of harm to economic or property interests, identity theft or fraud, or harm to the security or integrity of this system or other systems or programs (whether maintained by the SEC or another agency or entity) that rely upon the compromised information; and (c) the disclosure made to such agencies, entities, and persons is reasonably necessary to assist in connection with the SEC's efforts to respond to the suspected or confirmed compromise and prevent, minimize, or remedy such harm.
- 2. To other federal, state, local, or foreign law enforcement agencies; securities self-regulatory organizations; and foreign financial regulatory authorities to assist in or coordinate regulatory or law enforcement activities with the SEC.
- 3. To national securities exchanges and national securities associations that are registered with the SEC, the Municipal Securities Rulemaking Board; the Securities Investor Protection Corporation; the Public Company Accounting Oversight Board; the federal banking authorities, including, but not limited to, the Board of Governors of the Federal Reserve System, the Comptroller of the Currency, and the Federal Deposit Insurance Corporation; state securities regulatory agencies or organizations; or regulatory authorities of a foreign government in connection with their regulatory or enforcement responsibilities.
- 4. By SEC personnel for purposes of investigating possible violations of, or to conduct investigations authorized by, the federal securities laws.
- 5. In any proceeding where the federal securities laws are in issue or in which the Commission, or past or present members of its staff, is a party or otherwise involved in an official capacity.

- 6. In connection with proceedings by the Commission pursuant to Rule 102(e) of its Rules of Practice, 17 CFR 201.102(e).
- 7. To a bar association, state accountancy board, or other federal, state, local, or foreign licensing or oversight authority; or professional association or self-regulatory authority to the extent that it performs similar functions (including the Public Company Accounting Oversight Board) for investigations or possible disciplinary action.
- 8. To a federal, state, local, tribal, foreign, or international agency, if necessary to obtain information relevant to the SEC's decision concerning the hiring or retention of an employee; the issuance of a security clearance; the letting of a contract; or the issuance of a license, grant, or other benefit.
- 9. To a federal, state, local, tribal, foreign, or international agency in response to its request for information concerning the hiring or retention of an employee; the issuance of a security clearance; the reporting of an investigation of an employee; the letting of a contract; or the issuance of a license, grant, or other benefit by the requesting agency, to the extent that the information is relevant and necessary to the requesting agency's decision on the matter.
- 10. To produce summary descriptive statistics and analytical studies, as a data source for management information, in support of the function for which the records are collected and maintained or for related personnel management functions or manpower studies; may also be used to respond to general requests for statistical information (without personal identification of individuals) under the Freedom of Information Act.
- 11. To any trustee, receiver, master, special counsel, or other individual or entity that is appointed by a court of competent jurisdiction, or as a result of an agreement between the parties in connection with litigation or administrative proceedings involving allegations of violations of the federal securities laws (as defined in section 3(a)(47) of the Securities Exchange Act of 1934, 15 U.S.C. 78c(a)(47)) or pursuant to the Commission's Rules of Practice, 17 CFR 201.100 900 or the Commission's Rules of Fair Fund and Disgorgement Plans, 17 CFR 201.1100-1106, or otherwise, where such trustee, receiver, master, special counsel, or other individual or entity is specifically designated to perform particular functions with respect to, or as a result of, the pending action or proceeding or in connection with the administration and enforcement by the Commission of the federal securities laws or the Commission's Rules of Practice or the Rules of Fair Fund and Disgorgement Plans.
- 12. To any persons during the course of any inquiry, examination, or investigation conducted by the SEC's staff, or in connection with civil litigation, if the staff has reason to believe that the person to whom the record is disclosed may have further information about the matters related therein, and those matters appeared to be relevant at the time to the subject matter of the inquiry.
- 13. To interns, grantees, experts, contractors, and others who have been engaged by the Commission to assist in the performance of a service related to this system of records and who need access to the records for the purpose of assisting the Commission in the efficient administration of its programs, including by performing clerical, stenographic, or data analysis functions, or by reproduction of records by electronic or other means. Recipients of these records shall be required to comply with the requirements of the Privacy Act of 1974, as amended, 5 U.S.C. 552a.
- 14. In reports published by the Commission pursuant to authority granted in the federal securities laws (as such term is defined in section 3(a)(47) of the Securities Exchange Act of 1934, 15 U.S.C. 78c(a)(47)), which authority shall include, but not be limited to, section 21(a) of the Securities Exchange Act of 1934, 15 U.S.C. 78u(a)).
- 15. To members of advisory committees that are created by the Commission or by Congress to render advice and recommendations to the Commission or to Congress, to be used solely in connection with their official designated functions.
- 16. To any person who is or has agreed to be subject to the Commission's Rules of Conduct, 17 CFR 200.735-1 to 200.735-18, and who assists in the investigation by the Commission of possible violations of the federal securities laws (as such term is defined in section 3(a)(47) of the Securities Exchange Act of 1934, 15 U.S.C. 78c(a)(47)), in the preparation or conduct of enforcement actions brought by the Commission for such violations, or otherwise in connection with the Commission's enforcement or regulatory functions under the federal securities laws.
- 17. To a Congressional office from the record of an individual in response to an inquiry from the Congressional office made at the request of that individual.
- 18. To members of Congress, the press, and the public in response to inquiries relating to particular Registrants and their activities, and other matters under the Commission's jurisdiction.
- 19. To prepare and publish information relating to violations of the federal securities laws as provided in 15 U.S.C. 78c(a)(47)), as amended.
- 20. To respond to subpoenas in any litigation or other proceeding.
- 21. To a trustee in bankruptcy.

22. To any governmental agency, governmental or private collection agent, consumer reporting agency or commercial reporting agency, governmental or private employer of a debtor, or any other person, for collection, including collection by administrative offset, federal salary offset, tax refund offset, or administrative wage garnishment, of amounts owed as a result of Commission civil or administrative proceedings.

* * * * *

Small Business Owners: The SEC always welcomes comments on how it can better assist small businesses. If you would like more information, or have questions or comments about federal securities regulations as they affect small businesses, please contact the Office of Small Business Policy, in the SEC's Division of Corporation Finance, at 202-551-3460. If you would prefer to comment to someone outside of the SEC, you can contact the Small Business Regulatory Enforcement Ombudsman at http://www.sba.gov/ombudsman or toll free at 888-REG-FAIR. The Ombudsman's office receives comments from small businesses and annually evaluates federal agency enforcement activities for their responsiveness to the special needs of small business.

[FOR DOMESTIC U.S. RECORDS]

DECLARATION OF [Insert Name] CERTIFYING RECORDS OF REGULARLY CONDUCTED BUSINESS ACTIVITY

I, the undersigned, [insert name], pursuant to 28 U.S.C. § 1746, declare that:

- 1. I am employed by [insert name of company] as [insert position] and by reason of my position am authorized and qualified to make this declaration. [if possible supply additional information as to how person is qualified to make declaration, e.g., I am custodian of records, I am familiar with the company's recordkeeping practices or systems, etc.]
- 2. I further certify that the documents [attached hereto or submitted herewith] and stamped [insert bates range] are true copies of records that were:
 - (a) made at or near the time of the occurrence of the matters set forth therein, by, or from information transmitted by, a person with knowledge of those matters;
 - (b) kept in the course of regularly conducted business activity; and
 - (c) made by the regularly conducted business activity as a regular practice.

I declare under penalty of perjury that the foregoing is true and correct. Executed on [date].

[Nan	ne]	



UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Chicago Regional Office 175 West Jackson, Suite 1450 Chicago, IL 60604

DIVISION OF ENFORCEMENT

(b)(6); (b)(7)(C)
(b)(6); (b)(7)(C)	@sec.go

September 27, 2023

VIA EMAIL

ConsenSys Software, Inc. c/o Stephen Ehrenberg, Esq. James A. McDonald, Esq. Sullivan & Cromwell LLP 125 Broad Street New York, NY 10004

Re: Ethereum 2.0 (C-08950)

Dear Mr. Ehrenberg:

The enclosed subpoena has been issued pursuant to a formal order entered by the United States Securities and Exchange Commission. Pursuant to Rule 8 of the United States Securities and Exchange Commission's Rules Relating to Investigations, 17 C.F.R. § 203.8, I have enclosed a subpoena for documents issued to ConsenSys Software, Inc. ("ConsenSys"), in connection with the above-referenced investigation.

This is a federal civil law enforcement investigation and you must produce all documents described in the attachment to the subpoena. You must provide these documents by <u>October 11</u>, <u>2023</u>.

Please send the materials electronically to <u>ENF-CPU@sec.gov</u> with copies to <u>(b)(6):</u> <u>(b)(7)(C)</u> <u>(c)</u> <u>(c</u>

ENF-CPU (U.S. Securities & Exchange Commission) 14420 ALBEMARLE POINT PL Suite 102 CHANTILLY, VA 20151-1750

In your cover letter(s) accompanying the production of responsive documents, please enclose a list briefly describing each item you send. The list should state to which paragraph(s) in the subpoena attachment each item responds. Please also state in the cover letter(s) whether you believe ConsenSys has met its obligations under the subpoena by searching carefully and thoroughly for everything called for by the subpoena, and sending it all to us. A copy of the subpoena should be included with the documents that are produced. Correspondence should reference case number, case name, and the name of the requesting SEC staff member.

Passwords for documents, files, compressed archives, and encrypted media should be provided separately either via email addressed to ENF-CPU@sec.gov, or in a separate cover letter mailed separately from the data. Password correspondence should reference case number, case name and requesting SEC staff member.

In addition, for any documents that qualify as records of regularly conducted activities under Federal Rule of Evidence 902(11), please have the appropriate representative(s) of ConsenSys complete a business records certification (a sample of which is enclosed) and return it with the document production. Execution of this certification may allow the Commission to introduce the documents provided by ConsenSys in any subsequent judicial proceeding, without requiring the testimony of a records custodian.

Please note that, in any matter in which enforcement action is ultimately deemed to be warranted, the Division of Enforcement will not recommend any settlement to the Commission unless the party wishing to settle certifies, under penalty of perjury, that all documents responsive to Commission subpoenas and formal and informal document requests in this matter have been produced.

This investigation is a non-public, fact-finding inquiry. We are trying to determine whether there have been any violations of the federal securities laws. The investigation and the subpoena do not mean that we have concluded that your client or anyone else has violated the law. Also, the investigation does not mean that we have a negative opinion of any person, entity or security. Enclosed is a copy of the Commission's Form 1662 entitled "Supplemental Information for Persons Requested to Supply Information Voluntarily or Directed to Supply Information Pursuant to a Commission Subpoena." Form 1662 explains how we may use the information ConsenSys provides to the Commission and has other important information.

If you have any questions or would like $(b)(6)$; $(b)(7)(C)$ or $(b)(6)$; $(b)(7)(C)$ at $(b)(6)$; $(b)(7)(C)$	to discuss this matter, you may call me at (b)(7)(C)
	Sincerely,
	(b)(6); (b)(7)(C)
	Division of Enforcement

Enclosures:

Subpoena and Attachment SEC Data Delivery Standards SEC Form 1662 Declaration Certifying Records

Page 61 of 933



SUBPOENA

UNITED STATES OF AMERICA **SECURITIES AND EXCHANGE COMMISSION**

In the Matter of Ethereum 2.0 (C-08950)

To:	ConsenSys Software, Inc.	
	c/o Stephen Ehrenberg, Esq.	
	James A. McDonald, Esq.	
	Sullivan & Cromwell LLP	
	125 Broad Street	
	New York, NY 10004	
\boxtimes	YOU MUST PRODUCE everything specified in the Attachment to this subpoena to officers of the Securities and Exchange Commission, at the place, date and time specified below:	
	ENF-CPU, U.S. Securities and Exchange Commission, 14420 Albemarle Point Pl, Suite 102, Chantilly, VA 20151-1750, no later than October 11, 2023, at 9:30 a.m.	
	YOU MUST TESTIFY before officers of the Securities and Exchange Commission, at the place, date and time specified below:	
	FEDERAL LAW REQUIRES YOU TO COMPLY WITH THIS SUBPOENA. f you do not comply with this subpoena, the SEC may bring an action in Federal Court to enforce this poena. Failure to comply with a court order enforcing this subpoena may result in the court imposing a fine, imprisonment, or both.	
By:	Date: <u>September 27, 2023</u>	
	U.S. Securities and Exchange Commission	
	Chicago Regional Office	
	175 W. Jackson Blvd., Suite 1450	
	Chicago, IL 60604-2511	
	-	
	an officer of the U.S. Securities and Exchange Commission authorized to issue subpoenas in this	
matte	er. The Securities and Exchange Commission has issued a formal order authorizing this investigation	

NOTICE TO WITNESS: If you claim a witness fee or mileage, submit this subpoena with the claim voucher

under: Section 20(a) of the Securities Act of 1933.

SUBPOENA ATTACHMENT FOR CONSENSYS SOFTWARE, INC. September 27, 2023

In the Matter of Ethereum 2.0 (C-08950)

A. Definitions

As used in this document subpoena, the words and phrases listed below shall have the following meanings:

- 1. "Relevant Period" means July 1, 2018 to the present.
- 2. "EIP" means Ethereum Improvement Proposal.
- 3. "ConsenSys" means the entity or business doing business under the name ConsenSys Software, Inc., including parents, subsidiaries, affiliates, predecessors, successors, officers, directors, employees, agents, general partners, limited partners, partnerships and aliases, owners, code names, or trade or business names used by any of the foregoing.
- 4. "The Merge" or "Ethereum 2.0" means the transition by the Ethereum blockchain of its consensus mechanism from proof-of-work to proof-of-stake.
- 5. "Beacon Chain" means the original proof-of-stake blockchain that was launched in 2020 that ran alongside the original proof-of-work Ethereum blockchain.
- 6. "ETH" means Ether or the native crypto asset for the Ethereum blockchain and network.
- "Document" includes, but is not limited to, any written, printed, or typed matter including, but not limited to all drafts and copies bearing notations or marks not found in the original, letters and correspondence, interoffice communications, slips, tickets, records, worksheets, financial records, accounting documents, bookkeeping documents, memoranda, reports, manuals, telephone logs, telegrams, facsimiles, messages of any type, telephone messages, voice mails, tape recordings, notices, instructions, minutes, summaries, notes of meetings, file folder markings, and any other organizational indicia, purchase orders, information recorded by photographic process, including microfilm and microfiche, computer printouts, spreadsheets, and other electronically stored information, including but not limited to writings, drawings, graphs, charts, photographs, sound recordings, images, and other data or data compilations that are stored in any medium from which information can be retrieved, obtained, manipulated, or translated.
- 8. "Communication" means any correspondence, contact, discussion, e-mail, instant message, or any other kind of oral or written exchange or transmission of information (in the form of facts, ideas, inquiries, or otherwise), including but not limited to those made on Social Media Services, and any response thereto between two or more Persons or entities, including, without limitation, all telephone conversations, face-to-face meetings or conversations, internal or

external discussions, or exchanges of a Document or Documents.

- 9. "Concerning" means directly or indirectly, in whole or in part, describing, constituting, evidencing, recording, evaluating, substantiating, concerning, referring to, alluding to, in connection with, commenting on, relating to, regarding, discussing, showing, analyzing or reflecting.
- 10. "Agreement" means any actual or contemplated (i) written or oral Agreement; (ii) term or provision of such Agreement; or (iii) amendment of any nature or termination of such Agreement. A request for any Agreement among or between specified parties includes a request for all Documents Concerning (i) any actual or contemplated Agreement among or between such parties, whether or not such Agreement included any other Person; (ii) the drafting or negotiation of any such Agreement; (iii) any actual or contemplated demand, request or application for any such Agreement, and any response thereto; and (iv) any actual or contemplated objection or refusal to enter into any such Agreement, and any response thereto.
- 11. "Bank or Financial Accounts" means the domestic or foreign bank, brokerage, or financial accounts held, controlled, or used by you or by other people on your behalf. This includes, but is not limited to, accounts that contain currency, securities, or crypto assets.
- 12. "Crypto Asset Trading Platform Accounts" means the accounts held, controlled, or used by you or by other people on your behalf at any crypto asset trading platform.
- 13. "Person" means a natural person, firm, association, organization, partnership, business, trust, corporation, bank or any other private or public entity.
- 14. The term "you" and "your" means the Person or entity to whom this subpoena was issued.
- 15. To the extent necessary to bring within the scope of this subpoena any information or Documents that might otherwise be construed to be outside its scope:
 - a. the word "or" means "and/or";
 - b. the word "and" means "and/or";
 - c. the functional words "each," "every" "any" and "all" shall each be deemed to include each of the other functional words;
 - d. the masculine gender includes the female gender and the female gender includes the masculine gender; and
 - e. the singular includes the plural and the plural includes the singular.

B. <u>Instructions</u>

1. Unless otherwise specified, the subpoena calls for production of the original Documents and all copies and drafts of same. Documents responsive to this

subpoena may be in electronic or paper form. Electronic Documents such as email should be produced in accordance with the attached document entitled SEC Data Delivery Standards. All electronic Documents responsive to the subpoena, including all metadata, should also be produced in their native software format.

- 2. For Documents in paper format, you may send the originals, or, if you prefer, you may send copies of the originals. The Commission cannot reimburse you for the copying costs. If you are sending copies, the staff requests that you scan (rather than photocopy) hard copy Documents and produce them in an electronic format consistent with the SEC Data Delivery Standards. Alternatively, you may send us photocopies of the Documents in paper format. If you choose to send copies, you must secure and retain the originals and store them in a safe place. The staff may later request or require that you produce the originals.
- 3. Whether you scan or photocopy Documents, the copies must be identical to the originals, including even faint marks or print. Also, please note that if copies of a Document differ in any way, they are considered separate Documents and you must send each one. For example, if you have two copies of the same letter, but only one of them has handwritten notes on it, you must send both the clean copy and the one with notes.
- 4. In producing a photocopy of an original Document that contains post-it(s), notation flag(s), or other removable markings or attachments which may conceal all or a portion of the markings contained in the original Document, photocopies of the original Document both with and without the relevant post-it(s), notation flag(s), or removable markings or attachments should be produced.
- 5. Documents should be produced as they are kept in the ordinary course of business or be organized and labeled to correspond with the categories in this subpoena. In that regard, Documents should be produced in a unitized manner, *i.e.*, delineated with staples or paper clips to identify the Document boundaries.
- 6. Documents should be labeled with sequential numbering (bates-stamped).
- 7. The scope of any given request should not be limited or narrowed based on the fact that it calls for Documents that are responsive to another request.
- 8. You are not required to produce exact duplicates of any Documents that have been previously produced to the Securities and Exchange Commission staff in connection with this matter. If you are not producing Documents based upon a prior production, please identify the responsive Documents that were previously produced.
- 9. For any Documents that qualify as records of regularly conducted activities under Federal Rule of Evidence 902(11), please complete a business records certification (a sample of which is enclosed) and return it with the Document production.
- 10. This subpoena covers all Documents in or subject to your possession, custody or

control, including all Documents that are not in your immediate possession but that you have the effective ability to obtain, that are responsive, in whole or in part, to any of the individual requests set forth below. If, for any reason – including a claim of attorney-client privilege—you do not produce something called for by the subpoena, you should submit a list of what you are not producing. The list should be produced as an Excel file and describe each item separately, noting:

- its author(s); a.
- its date; b.
- its subject matter; c.
- the name of the Person who has the item now, or the last Person known to d. have it:
- the names of everyone who ever had the item or a copy of it, and the e. names of everyone who was told the item's contents;
- the basis upon which you are not producing the responsive Document; f.
- the specific request in the subpoena to which the Document relates; g.
- the attorney(s) and the client(s) involved; and h.
- in the case of the work product doctrine, the litigation for which the i. Document was prepared in anticipation.
- 11. If Documents responsive to this subpoena no longer exist because they have been lost, discarded, or otherwise destroyed, you should identify such Documents and give the date on which they were lost, discarded or destroyed.

D. **Documents to be Immediately Preserved and Produced**

- 1. Documents sufficient to disclose the amount of ETH you have owned or controlled during the Relevant Period.
- 2. Documents sufficient to identify how ConsenSys acquired the ETH it has owned or controlled during the Relevant Period, including the dates and circumstances of those acquisitions.
- 3. Documents sufficient to identify the amount of ETH sold, distributed, leased, offered, transferred, or exchanged by ConsenSys, including the dates, circumstances, and purchasers or acquirers or any ETH from ConsenSys.
- 4. For the sales, distributions, leases, offers, transfers, or exchanges responsive to Request 3, all Agreements between ConsenSys and any third party.
- 5. Documents sufficient to identify ConsenSys's digital asset wallet addresses, including, but not limited to, any digital asset wallet addresses over which ConsenSys exercises or has exercised control, or maintains or has maintained the private keys, including, but not limited to, any wallet address maintained on its behalf by any third party, crypto asset trading platform or exchange.
- 6. ConsenSys's board meeting minutes (including drafts), agendas, and materials provided to the board or committee members Concerning (a) EIP-2982, or the launch of the Beacon Chain; (b) EIP-1559, or the provision of a new fee structure

- 7. A list of all Bank or Financial Accounts, located within or outside the U.S., over which you exercise any control or have any beneficial interest or, in the alternative, Documents sufficient to disclose those.
- 8. For the accounts provided in response to Request 7, all account statements.
- 9. A list of all Crypto Asset Trading Platform Accounts, located within or outside the U.S., over which you exercise any control or have any beneficial interest or, in the alternative, Documents sufficient to disclose those.
- 10. For the accounts provided in response to Request 9, all account statements.
- 11. Audited and unaudited financial statements for ConsenSys.

Case 1:24-cv-01858-ACR

SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549

Supplemental Information for Persons Requested to Supply Information Voluntarily or Directed to Supply Information Pursuant to a Commission Subpoena

A. False Statements and Documents

Section 1001 of Title 18 of the United States Code provides that fines and terms of imprisonment may be imposed upon:

[W]hoever, in any matter within the jurisdiction of the executive, legislative, or judicial branch of the Government of the United States, knowingly and willfully--

- (1) falsifies, conceals, or covers up by any trick, scheme, or device a material fact;
- (2) makes any materially false, fictitious, or fraudulent statement or representation; or
- (3) makes or uses any false writing or document knowing the same to contain any materially false, fictitious, or fraudulent statement or entry.

Section 1519 of Title 18 of the United States Code provides that fines and terms of imprisonment may be imposed upon:

Whoever knowingly alters, destroys, mutilates, conceals, covers up, falsifies, or makes a false entry in any record, document, or tangible object with the intent to impede, obstruct, or influence the investigation or proper administration of any matter within the jurisdiction of any department or agency of the United States . . ., or in relation to or contemplation of any such matter.

B. Testimony

If your testimony is taken, you should be aware of the following:

- 1. *Record.* Your testimony will be transcribed by a reporter. If you desire to go off the record, please indicate this to the Commission employee taking your testimony, who will determine whether to grant your request. The reporter will not go off the record at your, or your counsel's, direction.
- 2. Counsel. You have the right to be accompanied, represented and advised by counsel of your choice. Your counsel may advise you before, during and after your testimony; question you briefly at the conclusion of your testimony to clarify any of the answers you give during testimony; and make summary notes during your testimony solely for your use. If you are accompanied by counsel, you may consult privately.

If you are not accompanied by counsel, please advise the Commission employee taking your testimony if, during the testimony, you desire to be accompanied, represented and advised by counsel. Your testimony will be adjourned once to afford you the opportunity to arrange to be so accompanied, represented or advised.

You may be represented by counsel who also represents other persons involved in the Commission's investigation. This multiple representation, however, presents a potential conflict of interest if one client's interests are or may be adverse to another's. If you are represented by counsel who also represents other persons involved in the investigation, the Commission will assume that you and counsel have discussed and resolved all issues concerning possible conflicts of interest. The choice of counsel, and the responsibility for that choice, is yours.

3. Transcript Availability. Rule 6 of the Commission's Rules Relating to Investigations, 17 CFR 203.6, states:

A person who has submitted documentary evidence or testimony in a formal investigative proceeding shall be entitled, upon written request, to procure a copy of his documentary evidence or a transcript of his testimony on payment of the appropriate fees: *Provided, however*, That in a nonpublic formal investigative proceeding the Commission may for good cause deny such request. In any event, any witness, upon proper identification, shall have the right to inspect the official transcript of the witness' own testimony.

If you wish to purchase a copy of the transcript of your testimony, the reporter will provide you with a copy of the appropriate form. Persons requested to supply information voluntarily will be allowed the rights provided by this rule.

4. *Perjury.* Section 1621 of Title 18 of the United States Code provides that fines and terms of imprisonment may be imposed upon:

Whoever--

(1) having taken an oath before a competent tribunal, officer, or person, in any case in which a law of the United States authorizes an oath to be administered, that he will testify, declare, depose, or certify

truly, or that any written testimony, declaration, deposition, or certificate by him subscribed, is true, willfully and contrary to such oath states or subscribes any material matter which he does not believe to be true; or

- (2) in any declaration, certificate, verification, or statement under penalty of perjury as permitted under section 1746 of title 28. United States Code, willfully subscribes as true any material matter which he does not believe to be true.
- 5. Fifth Amendment and Voluntary Testimony. Information you give may be used against you in any federal, state, local or foreign administrative, civil or criminal proceeding brought by the Commission or any other agency.

You may refuse, in accordance with the rights guaranteed to you by the Fifth Amendment to the Constitution of the United States, to give any information that may tend to incriminate you.

If your testimony is not pursuant to subpoena, your appearance to testify is voluntary, you need not answer any question, and you may leave whenever you wish. Your cooperation is, however, appreciated.

Formal Order Availability. If the Commission has issued a formal order of investigation, it will be shown to you during your testimony, at your request. If you desire a copy of the formal order, please make your request in writing.

C. Submissions and Settlements

Rule 5(c) of the Commission's Rules on Informal and Other Procedures, 17 CFR 202.5(c), states:

Persons who become involved in . . . investigations may, on their own initiative, submit a written statement to the Commission setting forth their interests and position in regard to the subject matter of the investigation. Upon request, the staff, in its discretion, may advise such persons of the general nature of the investigation, including the indicated violations as they pertain to them, and the amount of time that may be available for preparing and submitting a statement prior to the presentation of a staff recommendation to the Commission for the commencement of an administrative or injunction proceeding. Submissions by interested persons should be forwarded to the appropriate Division Director or Regional Director with a copy to the staff members conducting the investigation and should be clearly referenced to the specific investigation to which they relate. In the event a recommendation for the commencement of an enforcement proceeding is presented by the staff, any submissions by interested persons will be forwarded to the Commission in conjunction with the staff memorandum.

The staff of the Commission routinely seeks to introduce submissions made pursuant to Rule 5(c) as evidence in Commission enforcement proceedings, when the staff deems appropriate.

Rule 5(f) of the Commission's Rules on Informal and Other Procedures, 17 CFR 202.5(f), states:

In the course of the Commission's investigations, civil lawsuits, and administrative proceedings, the staff, with appropriate authorization, may discuss with persons involved the disposition of such matters by consent, by settlement, or in some other manner. It is the policy of the Commission, however, that the disposition of any such matter may not, expressly or impliedly, extend to any criminal charges that have been, or may be, brought against any such person or any recommendation with respect thereto. Accordingly, any person involved in an enforcement matter before the Commission who consents, or agrees to consent, to any judgment or order does so solely for the purpose of resolving the claims against him in that investigative, civil, or administrative matter and not for the purpose of resolving any criminal charges that have been, or might be, brought against him. This policy reflects the fact that neither the Commission nor its staff has the authority or responsibility for instituting, conducting, settling, or otherwise disposing of criminal proceedings. That authority and responsibility are vested in the Attorney General and representatives of the Department of Justice.

D. Freedom of Information Act

The Freedom of Information Act, 5 U.S.C. 552 (the "FOIA"), generally provides for disclosure of information to the public. Rule 83 of the Commission's Rules on Information and Requests, 17 CFR 200.83, provides a procedure by which a person can make a written request that information submitted to the Commission not be disclosed under the FOIA. That rule states that no determination as to the validity of such a request will be made until a request for disclosure of the information under the FOIA is received. Accordingly, no response to a request that information not be disclosed under the FOIA is necessary or will be given until a request for disclosure under the FOIA is received. If you desire an acknowledgment of receipt of your written request that information not be disclosed under the FOIA, please provide a duplicate request, together with a stamped, self-addressed envelope.

E. Authority for Solicitation of Information

Persons Directed to Supply Information Pursuant to Subpoena. The authority for requiring production of information is set forth in the subpoena. Disclosure of the information to the Commission is mandatory, subject to the valid assertion of any legal right or privilege you might have.

Persons Requested to Supply Information Voluntarily. One or more of the following provisions authorizes the Commission to solicit the information requested: Sections 19 and/or 20 of the Securities Act of 1933; Section 21 of the Securities Exchange Act of 1934; Section 321 of the Trust Indenture Act of 1939; Section 42 of the Investment Company Act of 1940; Section 209 of the Investment Advisers Act of 1940; and 17 CFR 202.5. Disclosure of the requested information to the Commission is voluntary on your part.

F. Effect of Not Supplying Information

Persons Directed to Supply Information Pursuant to Subpoena. If you fail to comply with the subpoena, the Commission may seek a court order requiring you to do so. If such an order is obtained and you thereafter fail to supply the information, you may be subject to civil and/or criminal sanctions for contempt of court. In addition, Section 21(c) of the Securities Exchange Act of 1934, Section 42(c) of the Investment Company Act of 1940, and Section 209(c) of the Investment Advisers Act of 1940 provide that fines and terms of imprisonment may be imposed upon any person who shall, without just cause, fail or refuse to attend and testify or to answer any lawful inquiry, or to produce books, papers, correspondence, memoranda, and other records in compliance with the subpoena.

Persons Requested to Supply Information Voluntarily. There are no direct sanctions and thus no direct effects for failing to provide all or any part of the requested information.

G. Principal Uses of Information

The Commission's principal purpose in soliciting the information is to gather facts in order to determine whether any person has violated, is violating, or is about to violate any provision of the federal securities laws or rules for which the Commission has enforcement authority, such as rules of securities exchanges and the rules of the Municipal Securities Rulemaking Board. Facts developed may, however, constitute violations of other laws or rules. Information provided may be used in Commission and other agency enforcement proceedings. Unless the Commission or its staff explicitly agrees to the contrary in writing, you should not assume that the Commission or its staff acquiesces in, accedes to, or concurs or agrees with, any position, condition, request, reservation of right, understanding, or any other statement that purports, or may be deemed, to be or to reflect a limitation upon the Commission's receipt, use, disposition, transfer, or retention, in accordance with applicable law, of information provided.

H. Routine Uses of Information

The Commission often makes its files available to other governmental agencies, particularly United States Attorneys and state prosecutors. There is a likelihood that information supplied by you will be made available to such agencies where appropriate. Whether or not the Commission makes its files available to other governmental agencies is, in general, a confidential matter between the Commission and such other governmental agencies.

Set forth below is a list of the routine uses which may be made of the information furnished.

- 1. To appropriate agencies, entities, and persons when (a) it is suspected or confirmed that the security or confidentiality of information in the system of records has been compromised; (b) the SEC has determined that, as a result of the suspected or confirmed compromise, there is a risk of harm to economic or property interests, identity theft or fraud, or harm to the security or integrity of this system or other systems or programs (whether maintained by the SEC or another agency or entity) that rely upon the compromised information; and (c) the disclosure made to such agencies, entities, and persons is reasonably necessary to assist in connection with the SEC's efforts to respond to the suspected or confirmed compromise and prevent, minimize, or remedy such harm.
- 2. To other federal, state, local, or foreign law enforcement agencies; securities self-regulatory organizations; and foreign financial regulatory authorities to assist in or coordinate regulatory or law enforcement activities with the SEC.
- 3. To national securities exchanges and national securities associations that are registered with the SEC, the Municipal Securities Rulemaking Board; the Securities Investor Protection Corporation; the Public Company Accounting Oversight Board; the federal banking authorities, including, but not limited to, the Board of Governors of the Federal Reserve System, the Comptroller of the Currency, and the Federal Deposit Insurance Corporation; state securities regulatory agencies or organizations; or regulatory authorities of a foreign government in connection with their regulatory or enforcement responsibilities.
- 4. By SEC personnel for purposes of investigating possible violations of, or to conduct investigations authorized by, the federal securities laws.
- 5. In any proceeding where the federal securities laws are in issue or in which the Commission, or past or present members of its staff, is a party or otherwise involved in an official capacity.

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- 6. In connection with proceedings by the Commission pursuant to Rule 102(e) of its Rules of Practice, 17 CFR 201.102(e).
- 7. To a bar association, state accountancy board, or other federal, state, local, or foreign licensing or oversight authority; or professional association or self-regulatory authority to the extent that it performs similar functions (including the Public Company Accounting Oversight Board) for investigations or possible disciplinary action.
- 8. To a federal, state, local, tribal, foreign, or international agency, if necessary to obtain information relevant to the SEC's decision concerning the hiring or retention of an employee; the issuance of a security clearance; the letting of a contract; or the issuance of a license, grant, or other benefit.
- 9. To a federal, state, local, tribal, foreign, or international agency in response to its request for information concerning the hiring or retention of an employee; the issuance of a security clearance; the reporting of an investigation of an employee; the letting of a contract; or the issuance of a license, grant, or other benefit by the requesting agency, to the extent that the information is relevant and necessary to the requesting agency's decision on the matter.
- 10. To produce summary descriptive statistics and analytical studies, as a data source for management information, in support of the function for which the records are collected and maintained or for related personnel management functions or manpower studies; may also be used to respond to general requests for statistical information (without personal identification of individuals) under the Freedom of Information Act.
- 11. To any trustee, receiver, master, special counsel, or other individual or entity that is appointed by a court of competent jurisdiction, or as a result of an agreement between the parties in connection with litigation or administrative proceedings involving allegations of violations of the federal securities laws (as defined in section 3(a)(47) of the Securities Exchange Act of 1934, 15 U.S.C. 78c(a)(47)) or pursuant to the Commission's Rules of Practice, 17 CFR 201.100 900 or the Commission's Rules of Fair Fund and Disgorgement Plans, 17 CFR 201.1100-1106, or otherwise, where such trustee, receiver, master, special counsel, or other individual or entity is specifically designated to perform particular functions with respect to, or as a result of, the pending action or proceeding or in connection with the administration and enforcement by the Commission of the federal securities laws or the Commission's Rules of Practice or the Rules of Fair Fund and Disgorgement Plans.
- 12. To any persons during the course of any inquiry, examination, or investigation conducted by the SEC's staff, or in connection with civil litigation, if the staff has reason to believe that the person to whom the record is disclosed may have further information about the matters related therein, and those matters appeared to be relevant at the time to the subject matter of the inquiry.
- 13. To interns, grantees, experts, contractors, and others who have been engaged by the Commission to assist in the performance of a service related to this system of records and who need access to the records for the purpose of assisting the Commission in the efficient administration of its programs, including by performing clerical, stenographic, or data analysis functions, or by reproduction of records by electronic or other means. Recipients of these records shall be required to comply with the requirements of the Privacy Act of 1974, as amended, 5 U.S.C. 552a.
- 14. In reports published by the Commission pursuant to authority granted in the federal securities laws (as such term is defined in section 3(a)(47) of the Securities Exchange Act of 1934, 15 U.S.C. 78c(a)(47)), which authority shall include, but not be limited to, section 21(a) of the Securities Exchange Act of 1934, 15 U.S.C. 78u(a)).
- 15. To members of advisory committees that are created by the Commission or by Congress to render advice and recommendations to the Commission or to Congress, to be used solely in connection with their official designated functions.
- 16. To any person who is or has agreed to be subject to the Commission's Rules of Conduct, 17 CFR 200.735-1 to 200.735-18, and who assists in the investigation by the Commission of possible violations of the federal securities laws (as such term is defined in section 3(a)(47) of the Securities Exchange Act of 1934, 15 U.S.C. 78c(a)(47)), in the preparation or conduct of enforcement actions brought by the Commission for such violations, or otherwise in connection with the Commission's enforcement or regulatory functions under the federal securities laws.
- 17. To a Congressional office from the record of an individual in response to an inquiry from the Congressional office made at the request of that individual.
- 18. To members of Congress, the press, and the public in response to inquiries relating to particular Registrants and their activities, and other matters under the Commission's jurisdiction.
- 19. To prepare and publish information relating to violations of the federal securities laws as provided in 15 U.S.C. 78c(a)(47)), as amended.
- 20. To respond to subpoenas in any litigation or other proceeding.
- 21. To a trustee in bankruptcy.

22. To any governmental agency, governmental or private collection agent, consumer reporting agency or commercial reporting agency, governmental or private employer of a debtor, or any other person, for collection, including collection by administrative offset, federal salary offset, tax refund offset, or administrative wage garnishment, of amounts owed as a result of Commission civil or administrative proceedings.

* * * * *

Small Business Owners: The SEC always welcomes comments on how it can better assist small businesses. If you would like more information, or have questions or comments about federal securities regulations as they affect small businesses, please contact the Office of Small Business Policy, in the SEC's Division of Corporation Finance, at 202-551-3460. If you would prefer to comment to someone outside of the SEC, you can contact the Small Business Regulatory Enforcement Ombudsman at http://www.sba.gov/ombudsman or toll free at 888-REG-FAIR. The Ombudsman's office receives comments from small businesses and annually evaluates federal agency enforcement activities for their responsiveness to the special needs of small business.



U.S. Securities and Exchange Commission

Data Delivery Standards

This document describes the technical requirements for paper and electronic document productions to the U.S. Securities and Exchange Commission (SEC). **Any questions or proposed file formats other than those described below must be discussed with the legal and technical staff of the SEC Division of Enforcement prior to submission.**

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General Instructions

The current mailing address for all physical productions sent to the SEC is:

ENF-CPU (U.S. Securities & Exchange Commission), 14420 Albemarle Point Place, Suite 102, Chantilly, VA 20151-1750

Electronic files must be produced in their native format, i.e. the format in which they are ordinarily used and maintained during the normal course of business. For example, an MS Excel file must be produced as an MS Excel file rather than an image of a spreadsheet. (Note: An Adobe PDF file is <u>not</u> considered a native file unless the document was initially created as a PDF.)

In the event produced files require the use of proprietary software not commonly found in the workplace, the SEC will explore other format options with the producing party.

The proposed use of file de-duplication methodologies or *computer-assisted review* or *technology-assisted review* (TAR) during the processing of documents must be discussed with and approved by the legal and technical staff of the Division of Enforcement (ENF). If your production will be de-duplicated it is vital that you 1) preserve any unique metadata associated with the duplicate files, for example, custodian name and file location and, 2) make that unique metadata part of your production to the SEC.

General requirements for ALL document productions are:

- 1. A cover letter must be included with each production and should include the following information:
 - Case number, ease name and requesting SEC staff member name
 - A list of each piece of media included in the production with its unique production volume number
 - A list of custodians, identifying the Bates range for each custodian
 - d. A list of redacted documents and the redaction reason
 - e. The time zone in which the emails were standardized during conversion
 - f. Whether the production contains native files produced from Mac operating system environments
- Data can be produced on CD, DVD, thumb drive, etc., using the media requiring the least number of deliverables and labeled with the following:
 - a. Case number
 - b. Production date
 - c. Producing party
 - d. Bates range (if applicable)
- All submissions must be organized by custodian unless otherwise instructed.
- All document family groups, i.e. email attachments, embedded files, etc., should be produced together and children files should follow parent files sequentially in the Bates numbering.
- All load-ready collections should include only one data load file and one image pointer file.
- All load-ready text must be produced as separate document-level text files.
- All load-ready collections should account for custodians in the custodian field.
- All load-ready collections must provide the extracted contents of any container files to ensure all relevant files are produced as separate records.
- Audio files should be separated from data files if both are included in the production.
- 10. Only alphanumeric characters and the underscore character are permitted in file names and folder names. Special characters are not permitted.
- 11. All electronic productions submitted on media must be produced using industry standard self-extracting encryption software.
- 12. The SEC uses 7zip to access compressed files. Note that the SEC cannot accept files that use AES-256 Jpeg or pkAES-256-Cert Deflate compression methods, even if the files are created with 7zip. If you have any questions or need additional information, please reach out to the requesting SEC staff member.
- 13. Electronic productions of 20 GB or less are strongly encouraged to be submitted via Secure File Transfer. All Secure File Transfers should be sent to the SEC Centralized Production Unit (ENF-CPU@sec.gov) with a CC to the requesting SEC staff member. If you do not have your own Secure File Transfer application, you may reach out to the requesting SEC staff member for a link to the SEC system in order to upload your production. If using the SEC Secure File Transfer system, you will NOT be able to CC individuals outside the SEC on your upload transmission. Note that the SEC cannot accept productions made using file sharing sites such as Google Drive, Microsoft Office 365 or Dropbox.
- 14. Productions containing BSA or SAR material must be encrypted. Secure File Transfer applications may be used to produce BSA or SAR material. BSA or SAR material should be segregated and appropriately marked as BSA or SAR, or should be produced separately from other case related records.
- 15. Passwords for electronic documents, files, compressed archives and encrypted media must be provided separately either via email or in a cover letter apart from the media.
- 16. All electronic productions should be produced free of computer viruses.
- 17. Before producing forensically collected images, parties should reach out to the requesting SEC staff member in order to discuss appropriate handling.
- 18. Before producing unique data sets (large sets of relational data, website reconstruction, chat room data, etc.), parties should reach out to the requesting SEC staff member in order to discuss an appropriate production format.
- Additional technical descriptions can be found in the addendum to this document.

Please note that productions sent to the SEC via United States Postal Service are subject to Mail Irradiation, and as a result electronic productions may be damaged.

Delivery Formats

I. Imaged Productions

The SEC prefers that all scanned paper and electronic file collections be produced in a structured format including industry standard load files, Bates numbered image files, native files and searchable document-level text files. Bates numbers should not contain spaces. Hyphens (-) and underscores (_) are acceptable.

1. Images

- a. Black and white images must be 300 DPI Group IV single-page TIFF files
- b. Color images must be produced in JPEG format
- c. File names cannot contain embedded spaces or special characters (including the comma)
- d. Folder names cannot contain embedded spaces or special characters (including the comma)
- c. All image files must have a unique file name, i.e. Bates number
- f. Images must be endorsed with sequential Bates numbers in the lower right corner of each image
- g. The number of image files per folder should not exceed 2,000 files
- h. Excel spreadsheets should have a placeholder image named by the Bates number of the file
- i. AUTOCAD/photograph files should be produced as a single page JPEG file

2. Image Cross-Reference File

The image cross-reference file (.LOG or .OPT) links the images to the database records. It should be a comma-delimited file consisting of seven fields per line with a line in the cross-reference file for every image in the database with the following format:

ImageID,VolumeLabel,ImageFilePath,DocumentBreak,FolderBreak,BoxBreak,PageCount

3. Data File

The data file (.DAT) contains all of the fielded information that will be loaded into the database.

- a. The first line of the .DAT file must be a header row identifying the field names
- b. The .DAT file must use the following Concordance® default delimiters:

Comma ¶ ASCII character (020)

Quote b ASCII character (254)

- c. If the .DAT file is produced in Unicode format it must contain the byte order marker
- d. Date fields should be provided in the format: mm/dd/yyyy
- e. Date and time fields must be two separate fields
- f. The time zone must be included in all time fields
- g. If the production includes imaged emails and attachments, the attachment fields must be included to preserve the parent/child relationship between an email and its attachments
- h. An OCRPATH field must be included to provide the file path and name of the extracted text file on the produced storage media. The text file must be named after the FIRSTBATES. Do not include the text in the .DAT file.
- i. For productions with native files, a LINK field must be included to provide the file path and name of the native file on the produced storage media. The native file must be named after the FIRSTBATES.
- j. BEGATTACH and ENDATTACH fields must be two separate fields
- k. A complete list of metadata fields is available in Addendum A to this document

4. Text

Text must be produced as separate document-level text files, not as fields within the .DAT file. The text files must be named per the FIRSTBATES/Image Key and the full path to the text file (OCRPATH) should be included in the .DAT file. Text files may be in either ANSI or Unicode format, however, ALL text files must be in the same format within the same production. Note that productions containing text with foreign characters must produce text files in Unicode format to preserve the foreign characters. Text files must be in a separate folder, and the number of text files per folder should not exceed 2,000 files. There should be no special characters (including commas) in the folder names. For redacted documents, provide the full text for the redacted version.

5. Linked Native Files

Copies of original email and native file documents/attachments must be included for all electronic productions.

- a. Native file documents must be named per the FIRSTBATES number
- b. The full path of the native file must be provided in the .DAT file for the LINK field
- e. The number of native files per folder should not exceed 2,000 files

11. Native File Production without Load Files

With prior approval, native files may be produced without load files. Native file productions should not be Bates numbered. Native files must be produced as they are maintained in the normal course of business and organized by custodian-named file folders. Native email files (.PST or .MBOX) must be separated by custodian.

III. Adobe PDF File Production

With prior approval, Adobe PDF files may be produced in native file format.

- 1. All PDFs must be unitized at the document level, i.e., each PDF must represent a discrete document.
- 2. PDF files should be produced in separate folders named by the custodian. The folders should not contain any special characters (including commas).
- 3. All PDF files must contain embedded text that includes all discernible words within the document, not selected text or image only. This requires all layers of the PDF to be flattened first.
- 4. If PDF files are Bates endorsed, the PDF files must be named by the Bates range.

IV. Audio Files

Audio files from telephone recording systems must be produced in a format that is playable using Microsoft Windows Media PlayerTM. Additionally, the call information (metadata) related to each audio recording MUST be provided. The metadata file must be produced in a delimited text format. Field names must be included in the first row of the text file. The metadata must include, at a minimum, the following fields:

1) Caller Name: Caller's name or account/identification number

2) Originating Number: Caller's phone number3) Called Party Name: Called party's name

4) Terminating Number: Called party's phone number

5) Date: Date of call
6) Time: Time of call

7) Filename: Filename of audio file

V. Video Files

Video files must be produced in a format that is playable using Microsoft Windows Media Player™.

VI. Electronic Trade and Bank Records

When producing electronic trade records, bank records, or financial statements, provide the files in one of the following formats:

- 1. MS Excel spreadsheet with header information detailing the field structure. If any special codes exist in the dataset, a separate document must be provided that details all such codes. If details of the field structure do not fit in the header, a separate document must be provided that includes such details.
- 2. Delimited text file with header information detailing the field structure. The preferred delimiter is a vertical bar "|". If any special codes exist in the dataset, a separate document must be provided that details all such codes. If details of the field structure do not fit in the header, a separate document must be provided that includes such details.

VII. Electronic Phone Records

When producing an MS Excel spreadsheet for electronic phone records, provide the files in the following format:

- 1. MS Excel spreadsheet with header information detailing the field structure. If any special codes exist in the dataset, a separate document must be provided that details all such codes. If details of the field structure do not fit in the header, a separate document must be provided that includes such details. Data must be formatted in its native format (i.e. dates in a date format, numbers in an appropriate numerical format, and numbers with leading zeroes as text).
 - a. The metadata that must be included is outlined in **Addendum B** of this document. Each field of data must be loaded into a separate column. For example, Date and Start_Time must be produced in separate columns and not combined into a single column containing both pieces of information. Any fields of data that are provided in addition to those listed in **Addendum B** must also be loaded into separate columns.

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Data Delivery Standards

VIII. Audit Workpapers

The SEC prefers for workpapers to be produced in two formats: (1) With Bates numbers in accordance with the SEC Data Delivery Standards; and (2) in native format or if proprietary software was used, on a standalone laptop with the appropriate software loaded so that the workpapers may be reviewed as they would have been maintained in the ordinary course of business. The laptop must have printing capability, and when possible, the laptop should be configured to enable a Virtual Machine (VM) environment.

IX. Mobile Device Data

Before producing any mobile device data (including but not limited to text messages and application data) parties should reach out to the requesting SEC staff member in order to discuss the appropriate production format.

ADDENDUM A

The metadata of electronic document collections should be extracted and provided in a .DAT file using the field definition and formatting described below:

Field Name	Sample Data	Description
FIRSTBATES	EDC0000001	First Bates number of native file document/email
LASTBATES	EDC0000001	Last Bates number of native file document/email
		**The LASTBATES field should be populated
		for single page documents/emails.
ATTACHRANGE	EDC0000001 - EDC0000015	Bates number of the first page of the parent
		document to the Bates number of the last page of the
		last attachment "child" document
BEGATTACH	EDC0000001	First Bates number of attachment range
ENDATTACH	EDC0000015	Last Bates number of attachment range
PARENT_BATES	EDC0000001	First Bates number of parent document/Email **This PARENT BATES field should be populated in each record representing an attachment "child" document
CHILD BATES	EDC0000002; EDC0000014	First Bates number of "child" attachment(s); can be
_	ŕ	more than one Bates number listed depending on the
		number of attachments
		**The CHILD BATES field should be populated in
		each record representing a "parent" document
CUSTODIAN	Smith, John	Email: Mailbox where the email resided
		Native: Name of the individual or department from
		whose files the document originated
FROM	John Smith	Email: Sender
		Native: Author(s) of document
		**semi-colon should be used to separate multiple
		entries
TO	Coffman, Janice; LeeW	Recipient(s)
	[mailto:LeeW@MSN.com]	**semi-colon should be used to separate multiple
		entries
CC	Frank Thompson [mailto:	Carbon copy recipient(s)
	frank Thompson@cdt.com]	**semi-colon should be used to separate multiple
73 (34)		entries
BCC	John Cain	Blind carbon copy recipient(s)
		**semi-colon should be used to separate multiple
CUDUCT	Donal Marking Mineton	entries
SUBJECT	Board Meeting Minutes	Email: Subject line of the email Native: Title of document (if available)
EU E MANG	BoardMeetingMinutes.doex	· · · · · · · · · · · · · · · · · · ·
FILE_NAME	Boardivicetingivimutes.docx	Native: Name of the original native file, including extension
DATE_SENT	10/12/2010	Email: Date the email was sent
DVI F PENI	10/12/2010	Native: (empty)
TIME SENT/TIME	07:05 PM GMT	Email: Time the email was sent/ Time zone in which
ZONE	0.1027.74 0.111	the emails were standardized during conversion.
		Native: (cmpty)
		**This data must be a separate field and cannot be
		combined with the DATE_SENT field
TIME ZONE	GMT	The time zone in which the emails were standardized
_		during conversion.
		Email: Time zone
		Native: (empty)
		Native: (empty)

LINK	D:\001\EDC0000001.msg	Hyperlink to the email or native file document **The linked file must be named per the FIRSTBATES number
MIME_TYPE	application/msword	The content type of an email or native file document as identified/extracted from the header
FILE_EXTEN	MSG	The file type extension representing the email or native file document; will vary depending on the format
AUTHOR	John Smith	Email: (cmpty) Native: Author of the document
LAST_AUTHOR	Jane Doc	Email: (empty) Native: Last Author of the document
DATE_CREATED	10/10/2010	Email: (cmpty) Native: Date the document was created
TIME_CREATED/T IME_ZONE	10:25 AM GMT	Email: (empty) Native: Time the document was created including time zone **This data must be a separate field and cannot be combined with the DATE_CREATED field
DATE_MOD	10/12/2010	Email: (cmpty) Native: Date the document was last modified
TIME_MOD/TIME_ ZONE	07:00 PM GMT	Email: (cmpty) Native: Time the document was last modified including the time zone **This data must be a separate field and cannot be combined with the DATE MOD field
DATE_ACCESSD	10/12/2010	Email: (empty) Native: Date the document was last accessed
TIME_ACCESSD/T IME_ZONE	07:00 PM GMT	Email: (empty) Native: Time the document was last accessed including the time zone **This data must be a separate field and cannot be combined with the DATE_ACCESSD field
PRINTED_DATE	10/12/2010	Email: (cmpty) Native: Date the document was last printed
FILE SIZE	5,952	Size of native file document/email in KB
PGCOUNT	1	Number of pages in native file document/email
РАТН	J:\Shared\SmithJ\October Agenda.doc	Email: (empty) Native: Path where native file document was stored including original file name.
INTFILEPATH	Personal Folders\Deleted Items\Board Meeting Minutes.msg	Email: original location of email including original file name. Native: (empty)
INTMSGID	<000805c2c71b\$75977050\$cb 8306d1@MSN>	Email: Unique Message ID Native: (empty)

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HEADER	Return-Path: <example_from@dc.edu> X-SpamCatcher-Score:1[X] Reccived:from[136.167.40.119] (HELO dc.edu) by fe3.dc.edu (CommuniGate Pro SMTP4.1.8) with ESMTP-TLS id 61258719 for example_to@mail.dc.edu; Mon, 23 Aug 2004 11:40:10 - 0400 Message-ID: <4129F3CA.2020509@dc.edu> Date: Mon, 23 Aug 2005 11:40:36 -400 From: Taylor Evans <example_from@dc.edu> Uscr-Agent:Mozilla/5.0 (Windows;U; Windows NT 5.1: cn-US;rv:1.0.1) Gecko/20020823 Netscape/7.0 X-Accept-Language:en-us,en MIME-Version:1.0 To: Jon Smith <example_to@mail.dc.edu> Subject:Business Development Mccting Content-Type: text/plain;charset=us-ascii; format-flowed Content-Transfer-Encoding:7bit</example_to@mail.dc.edu></example_from@dc.edu></example_from@dc.edu>	Email: The email header information Native: (empty)
SIIA256	AD6128C5CA40164AF71A1E FC800E12D2F195CE07BB5F8 C813B0888A2DDE6A06F	SHA-256 hash value of the document.
OCRPATH	TEXT/001/EDC0000001.txt	Path to extracted text of the native file

Sample Image Cross-Reference File:

IMG0000001,,E:\001\IMG0000001.TIF,Y,,,
IMG0000002,,E:\001\IMG0000002.TIF,,,,
IMG0000003,,E:\001\IMG0000003.TIF,,,,
IMG0000004,,E:\001\IMG0000004.TIF,Y,,,
IMG0000005,,E:\001\IMG0000005.TIF,Y,,,
IMG0000006,,E:\001\IMG0000006.TIF,,,,

ADDENDUM B

For Electronic Phone Records, include the following fields in separate columns:

For Calls:

- 1) Account Number
- 2) Connection Date Date the call was received or made
- 3) Connection Time Time call was received or made
- 4) Seizure Time Time it took for the call to be placed in seconds
- 5) Originating Number Phone that placed the call
- 6) Terminating Number Phone that received the call
- 7) Elapsed Time The length of time the call lasted, preferably in seconds
- 8) End Time The time the call ended
- 9) Number Dialed Actual number dialed
- 10) IMEI Originating Unique id to phone used to make call
- 11) IMEI Terminating Unique id to phone used to receive call
- 12) IMSI Originating Unique id to phone used to make call
- 13) IMSI Terminating- Unique id to phone used to receive call
- 14) Call Codes Identify call direction or other routing information
- 15) Time Zone Time Zone in which the call was received or placed, if applicable

For Text messages:

- 1) Account Number
- 2) Connection Date Date the text was received or made
- 3) Connection Time Time text was received or made
- 4) Originating Number Who placed the text
- 5) Terminating Number Who received the text
- 6) IMEI Originating Unique id to phone used to make text
- 7) IMEI Terminating Unique id to phone used to receive text
- 8) IMSI Originating Unique id to phone used to make text
- 9) IMSI Terminating- Unique id to phone used to receive text
- 10) Text Code Identify text direction, or other text routing information
- 11) Text Type Code Type of text message (sent SMS, MMS, or other)
- 12) Time Zone Time Zone in which the call was received or placed, if applicable

For Mobile Data Usage:

- 1) Account Number
- 2) Connection Date Date the data was received or made
- 3) Connection Time Time data was received or made
- 4) Originating number Number that used data
- 5) IMEI Originating Unique id of phone that used data
- 6) IMSI Originating Unique id of phone that used data
- 7) Data or Data codes Identify data direction, or other data routing information
- 8) Time Zone Time Zone in which the call was received or placed, if applicable

[FOR DOMESTIC U.S. RECORDS]

DECLARATION OF [Insert Name] CERTIFYING RECORDS OF REGULARLY CONDUCTED BUSINESS ACTIVITY

I, the undersigned, [insert name], pursuant to 28 U.S.C. § 1746, declare that:

- 1. I am employed by [insert name of company] as [insert position] and by reason of my position am authorized and qualified to make this declaration. [if possible supply additional information as to how person is qualified to make declaration, e.g., I am custodian of records, I am familiar with the company's recordkeeping practices or systems, etc.]
- 2. I further certify that the documents [attached hereto or submitted herewith] and stamped [insert bates range] are true copies of records that were:
 - (a) made at or near the time of the occurrence of the matters set forth therein, by, or from information transmitted by, a person with knowledge of those matters;
 - (b) kept in the course of regularly conducted business activity; and
 - (c) made by the regularly conducted business activity as a regular practice.

I declare under penalty of perjury that the foregoing is true and correct. Executed on [date].

[Name]	



UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Chicago Regional Office 175 West Jackson, Suite 1450 Chicago, IL 60604

DIVISION OF ENFORCEMENT

(b)(6); (b)(7	(C)
	_
(b)(6); (b)(7)(C)	$\hat{y}_{ ext{sec.gov}}$

September 29, 2023

VIA EMAIL

ConsenSys Software, Inc. c/o Stephen Ehrenberg, Esq. James A. McDonald, Esq. Sullivan & Cromwell LLP 125 Broad Street New York, NY 10004

Re: **Ethereum 2.0 (C-08950)**

Dear Mr. Ehrenberg:

The enclosed subpoena has been issued pursuant to a formal order entered by the United States Securities and Exchange Commission. Pursuant to Rule 8 of the United States Securities and Exchange Commission's Rules Relating to Investigations, 17 C.F.R. § 203.8, I have enclosed a subpoena for documents issued to ConsenSys Software, Inc. ("ConsenSys"), in connection with the above-referenced investigation.

This is a federal civil law enforcement investigation and you must produce all documents described in the attachment to the subpoena. You must provide these documents by <u>October 13</u>, <u>2023</u>.

> ENF-CPU (U.S. Securities & Exchange Commission) 14420 ALBEMARLE POINT PL Suite 102 CHANTILLY, VA 20151-1750

In your cover letter(s) accompanying the production of responsive documents, please enclose a list briefly describing each item you send. The list should state to which paragraph(s) in the subpoena attachment each item responds. Please also state in the cover letter(s) whether you believe ConsenSys has met its obligations under the subpoena by searching carefully and thoroughly for everything called for by the subpoena, and sending it all to us. A copy of the subpoena should be included with the documents that are produced. Correspondence should reference case number, case name, and the name of the requesting SEC staff member.

Passwords for documents, files, compressed archives, and encrypted media should be provided separately either via email addressed to ENF-CPU@sec.gov, or in a separate cover letter mailed separately from the data. Password correspondence should reference case number, case name and requesting SEC staff member.

In addition, for any documents that qualify as records of regularly conducted activities under Federal Rule of Evidence 902(11), please have the appropriate representative(s) of ConsenSys complete a business records certification (a sample of which is enclosed) and return it with the document production. Execution of this certification may allow the Commission to introduce the documents provided by ConsenSys in any subsequent judicial proceeding, without requiring the testimony of a records custodian.

Please note that, in any matter in which enforcement action is ultimately deemed to be warranted, the Division of Enforcement will not recommend any settlement to the Commission unless the party wishing to settle certifies, under penalty of perjury, that all documents responsive to Commission subpoenas and formal and informal document requests in this matter have been produced.

This investigation is a non-public, fact-finding inquiry. We are trying to determine whether there have been any violations of the federal securities laws. The investigation and the subpoena do not mean that we have concluded that your client or anyone else has violated the law. Also, the investigation does not mean that we have a negative opinion of any person, entity or security. Enclosed is a copy of the Commission's Form 1662 entitled "Supplemental Information for Persons Requested to Supply Information Voluntarily or Directed to Supply Information Pursuant to a Commission Subpoena." Form 1662 explains how we may use the information ConsenSys provides to the Commission and has other important information.

If you have any que (b)(6); (b)(7)(C) or (b)(6); (b)(7)(C)	at (b)(6); (b)(7)(C)	o discuss this matte	r, you may call me at(<u>b)(7)(0</u>))
		Sincerely,		
		(b)(6); (b)(7)(C)		
		Division of Enf	orcement	

Enclosures:

Subpoena and Attachment SEC Data Delivery Standards SEC Form 1662 Declaration Certifying Records

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SUBPOENA

UNITED STATES OF AMERICA **SECURITIES AND EXCHANGE COMMISSION**

In the Matter of Ethereum 2.0 (C-08950)

To:	ConsenSys Software, Inc.
	c/o Stephen Ehrenberg, Esq.
	James A. McDonald, Esq.
	Sullivan & Cromwell LLP
	125 Broad Street
	New York, NY 10004
\boxtimes	YOU MUST PRODUCE everything specified in the Attachment to this subpoena to officers of the Securities and Exchange Commission, at the place, date and time specified below:
	ENF-CPU, U.S. Securities and Exchange Commission, 14420 Albemarle Point Pl, Suite 102, Chantilly, VA 20151-1750, no later than October 13, 2023, at 9:30 a.m.
	YOU MUST TESTIFY before officers of the Securities and Exchange Commission, at the place, date and time specified below:
	FEDERAL LAW REQUIRES YOU TO COMPLY WITH THIS SUBPOENA. You do not comply with this subpoena, the SEC may bring an action in Federal Court to enforce this poena. Failure to comply with a court order enforcing this subpoena may result in the court imposing a fine, imprisonment, or both.
By:	Date: <u>September 29, 2023</u>
	U.S. Securities and Exchange Commission Chicago Regional Office
	175 W. Jackson Blvd., Suite 1450
	Chicago, IL 60604-2511
matte	an officer of the U.S. Securities and Exchange Commission authorized to issue subpoenas in this er. The Securities and Exchange Commission has issued a formal order authorizing this investigation or Section 20(a) of the Securities Act of 1933.

NOTICE TO WITNESS: If you claim a witness fee or mileage, submit this subpoena with the claim voucher

SUBPOENA ATTACHMENT FOR CONSENSYS SOFTWARE, INC. September 29, 2023

In the Matter of Ethereum 2.0 (C-08950)

A. Definitions

As used in this document subpoena, the words and phrases listed below shall have the following meanings:

- 1. "Relevant Period" means July 1, 2018 to the present.
- 2. "EIP" means Ethereum Improvement Proposal.
- 3. "ConsenSys" means the entity or business doing business under the name ConsenSys Software, Inc., including parents, subsidiaries, affiliates, predecessors, successors, officers, directors, employees, agents, general partners, limited partners, partnerships and aliases, owners, code names, or trade or business names used by any of the foregoing.
- 4. "The Merge" or "Ethereum 2.0" means the transition by the Ethereum blockchain of its consensus mechanism from proof-of-work to proof-of-stake.
- 5. "Beacon Chain" means the original proof-of-stake blockchain that was launched in 2020 that ran alongside the original proof-of-work Ethereum blockchain.
- 6. "ETH" means Ether or the native crypto asset for the Ethereum blockchain and network.
- "Document" includes, but is not limited to, any written, printed, or typed matter including, but not limited to all drafts and copies bearing notations or marks not found in the original, letters and correspondence, interoffice communications, slips, tickets, records, worksheets, financial records, accounting documents, bookkeeping documents, memoranda, reports, manuals, telephone logs, telegrams, facsimiles, messages of any type, telephone messages, voice mails, tape recordings, notices, instructions, minutes, summaries, notes of meetings, file folder markings, and any other organizational indicia, purchase orders, information recorded by photographic process, including microfilm and microfiche, computer printouts, spreadsheets, and other electronically stored information, including but not limited to writings, drawings, graphs, charts, photographs, sound recordings, images, and other data or data compilations that are stored in any medium from which information can be retrieved, obtained, manipulated, or translated.
- 8. "Communication" means any correspondence, contact, discussion, e-mail, instant message, or any other kind of oral or written exchange or transmission of information (in the form of facts, ideas, inquiries, or otherwise), including but not limited to those made on Social Media Services, and any response thereto between two or more Persons or entities, including, without limitation, all telephone conversations, face-to-face meetings or conversations, internal or

external discussions, or exchanges of a Document or Documents.

- 9. "Concerning" means directly or indirectly, in whole or in part, describing, constituting, evidencing, recording, evaluating, substantiating, concerning, referring to, alluding to, in connection with, commenting on, relating to, regarding, discussing, showing, analyzing or reflecting.
- 10. "Agreement" means any actual or contemplated (i) written or oral Agreement; (ii) term or provision of such Agreement; or (iii) amendment of any nature or termination of such Agreement. A request for any Agreement among or between specified parties includes a request for all Documents Concerning (i) any actual or contemplated Agreement among or between such parties, whether or not such Agreement included any other Person; (ii) the drafting or negotiation of any such Agreement; (iii) any actual or contemplated demand, request or application for any such Agreement, and any response thereto; and (iv) any actual or contemplated objection or refusal to enter into any such Agreement, and any response thereto.
- 11. "Bank or Financial Accounts" means the domestic or foreign bank, brokerage, or financial accounts held, controlled, or used by you or by other people on your behalf. This includes, but is not limited to, accounts that contain currency, securities, or crypto assets.
- 12. "Crypto Asset Trading Platform Accounts" means the accounts held, controlled, or used by you or by other people on your behalf at any crypto asset trading platform.
- 13. "Person" means a natural person, firm, association, organization, partnership, business, trust, corporation, bank or any other private or public entity.
- 14. The term "you" and "your" means the Person or entity to whom this subpoena was issued.
- 15. To the extent necessary to bring within the scope of this subpoena any information or Documents that might otherwise be construed to be outside its scope:
 - a. the word "or" means "and/or";
 - b. the word "and" means "and/or";
 - c. the functional words "each," "every" "any" and "all" shall each be deemed to include each of the other functional words;
 - d. the masculine gender includes the female gender and the female gender includes the masculine gender; and
 - e. the singular includes the plural and the plural includes the singular.

B. <u>Instructions</u>

1. Unless otherwise specified, the subpoena calls for production of the original Documents and all copies and drafts of same. Documents responsive to this

subpoena may be in electronic or paper form. Electronic Documents such as email should be produced in accordance with the attached document entitled SEC Data Delivery Standards. All electronic Documents responsive to the subpoena, including all metadata, should also be produced in their native software format.

- 2. For Documents in paper format, you may send the originals, or, if you prefer, you may send copies of the originals. The Commission cannot reimburse you for the copying costs. If you are sending copies, the staff requests that you scan (rather than photocopy) hard copy Documents and produce them in an electronic format consistent with the SEC Data Delivery Standards. Alternatively, you may send us photocopies of the Documents in paper format. If you choose to send copies, you must secure and retain the originals and store them in a safe place. The staff may later request or require that you produce the originals.
- 3. Whether you scan or photocopy Documents, the copies must be identical to the originals, including even faint marks or print. Also, please note that if copies of a Document differ in any way, they are considered separate Documents and you must send each one. For example, if you have two copies of the same letter, but only one of them has handwritten notes on it, you must send both the clean copy and the one with notes.
- 4. In producing a photocopy of an original Document that contains post-it(s), notation flag(s), or other removable markings or attachments which may conceal all or a portion of the markings contained in the original Document, photocopies of the original Document both with and without the relevant post-it(s), notation flag(s), or removable markings or attachments should be produced.
- 5. Documents should be produced as they are kept in the ordinary course of business or be organized and labeled to correspond with the categories in this subpoena. In that regard, Documents should be produced in a unitized manner, i.e., delineated with staples or paper clips to identify the Document boundaries.
- 6. Documents should be labeled with sequential numbering (bates-stamped).
- 7. The scope of any given request should not be limited or narrowed based on the fact that it calls for Documents that are responsive to another request.
- 8. You are not required to produce exact duplicates of any Documents that have been previously produced to the Securities and Exchange Commission staff in connection with this matter. If you are not producing Documents based upon a prior production, please identify the responsive Documents that were previously produced.
- 9. For any Documents that qualify as records of regularly conducted activities under Federal Rule of Evidence 902(11), please complete a business records certification (a sample of which is enclosed) and return it with the Document production.
- 10. This subpoena covers all Documents in or subject to your possession, custody or

control, including all Documents that are not in your immediate possession but that you have the effective ability to obtain, that are responsive, in whole or in part, to any of the individual requests set forth below. If, for any reason—including a claim of attorney-client privilege—you do not produce something called for by the subpoena, you should submit a list of what you are not producing. The list should be produced as an Excel file and describe each item separately, noting:

- a. its author(s);
- b. its date;
- c. its subject matter;
- d. the name of the Person who has the item now, or the last Person known to have it:
- e. the names of everyone who ever had the item or a copy of it, and the names of everyone who was told the item's contents;
- f. the basis upon which you are not producing the responsive Document;
- g. the specific request in the subpoena to which the Document relates;
- h. the attorney(s) and the client(s) involved; and
- i. in the case of the work product doctrine, the litigation for which the Document was prepared in anticipation.
- 11. If Documents responsive to this subpoena no longer exist because they have been lost, discarded, or otherwise destroyed, you should identify such Documents and give the date on which they were lost, discarded or destroyed.

D. Documents to be Immediately Preserved and Produced

- 1. Documents sufficient to identify all investors in ConsenSys (the "Investors") by name and address.
- 2. For each of the Investors, Documents sufficient to disclose:
 - a. The amount(s) invested;
 - b. The date(s) of investments; and
 - c. Their percent ownership in ConsenSys.
- 3. All Documents provided to, and Communications with, the Investors in connection with any offering of an interest in the ownership of ConsenSys Concerning:
 - a. The details of the offering; or
 - b. ConsenSys's business model, products, or financial condition.
- 4. Documents or information sufficient to provide an accurate accounting of the funds raised by ConsenSys in any offering to investors and the current status of those funds, including any conversion of funds from USD to ETH or another crypto asset.

- 5. Documents sufficient to identify, as applicable, all officers, directors, partners, principals, owners, shareholders, employees, consultants, contractors, and all others acting on behalf of ConsenSys during each year of the Relevant Period, and Documents sufficient to disclose, for each individual identified in response to this request, the following:
 - a. Title and department;
 - b. Dates of affiliation with ConsenSys; and
 - c. Documents sufficient to identify any compensation received in the form of ETH or another crypto asset.

SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549

Supplemental Information for Persons Requested to Supply Information Voluntarily or Directed to Supply Information Pursuant to a Commission Subpoena

A. False Statements and Documents

Section 1001 of Title 18 of the United States Code provides that fines and terms of imprisonment may be imposed upon:

[W]hoever, in any matter within the jurisdiction of the executive, legislative, or judicial branch of the Government of the United States, knowingly and willfully--

- (1) falsifies, conceals, or covers up by any trick, scheme, or device a material fact;
- (2) makes any materially false, fictitious, or fraudulent statement or representation; or
- (3) makes or uses any false writing or document knowing the same to contain any materially false, fictitious, or fraudulent statement or entry.

Section 1519 of Title 18 of the United States Code provides that fines and terms of imprisonment may be imposed upon:

Whoever knowingly alters, destroys, mutilates, conceals, covers up, falsifies, or makes a false entry in any record, document, or tangible object with the intent to impede, obstruct, or influence the investigation or proper administration of any matter within the jurisdiction of any department or agency of the United States . . ., or in relation to or contemplation of any such matter.

B. Testimony

If your testimony is taken, you should be aware of the following:

- 1. Record. Your testimony will be transcribed by a reporter. If you desire to go off the record, please indicate this to the Commission employee taking your testimony, who will determine whether to grant your request. The reporter will not go off the record at your, or your counsel's, direction.
- 2. Counsel. You have the right to be accompanied, represented and advised by counsel of your choice. Your counsel may advise you before, during and after your testimony; question you briefly at the conclusion of your testimony to clarify any of the answers you give during testimony; and make summary notes during your testimony solely for your use. If you are accompanied by counsel, you may consult privately.

If you are not accompanied by counsel, please advise the Commission employee taking your testimony if, during the testimony, you desire to be accompanied, represented and advised by counsel. Your testimony will be adjourned once to afford you the opportunity to arrange to be so accompanied, represented or advised.

You may be represented by counsel who also represents other persons involved in the Commission's investigation. This multiple representation, however, presents a potential conflict of interest if one client's interests are or may be adverse to another's. If you are represented by counsel who also represents other persons involved in the investigation, the Commission will assume that you and counsel have discussed and resolved all issues concerning possible conflicts of interest. The choice of counsel, and the responsibility for that choice, is yours.

Transcript Availability. Rule 6 of the Commission's Rules Relating to Investigations, 17 CFR 203.6, states:

A person who has submitted documentary evidence or testimony in a formal investigative proceeding shall be entitled, upon written request, to procure a copy of his documentary evidence or a transcript of his testimony on payment of the appropriate fees: *Provided, however*, That in a nonpublic formal investigative proceeding the Commission may for good cause deny such request. In any event, any witness, upon proper identification, shall have the right to inspect the official transcript of the witness' own testimony.

If you wish to purchase a copy of the transcript of your testimony, the reporter will provide you with a copy of the appropriate form. Persons requested to supply information voluntarily will be allowed the rights provided by this rule.

4. *Perjury.* Section 1621 of Title 18 of the United States Code provides that fines and terms of imprisonment may be imposed upon:

Whoever--

(1) having taken an oath before a competent tribunal, officer, or person, in any case in which a law of the United States authorizes an oath to be administered, that he will testify, declare, depose, or certify

truly, or that any written testimony, declaration, deposition, or certificate by him subscribed, is true, willfully and contrary to such oath states or subscribes any material matter which he does not believe to be true; or

- (2) in any declaration, certificate, verification, or statement under penalty of perjury as permitted under section 1746 of title 28. United States Code, willfully subscribes as true any material matter which he does not believe to be true.
- 5. Fifth Amendment and Voluntary Testimony. Information you give may be used against you in any federal, state, local or foreign administrative, civil or criminal proceeding brought by the Commission or any other agency.

You may refuse, in accordance with the rights guaranteed to you by the Fifth Amendment to the Constitution of the United States, to give any information that may tend to incriminate you.

If your testimony is not pursuant to subpoena, your appearance to testify is voluntary, you need not answer any question, and you may leave whenever you wish. Your cooperation is, however, appreciated.

Formal Order Availability. If the Commission has issued a formal order of investigation, it will be shown to you during your testimony, at your request. If you desire a copy of the formal order, please make your request in writing.

C. Submissions and Settlements

Rule 5(c) of the Commission's Rules on Informal and Other Procedures, 17 CFR 202.5(c), states:

Persons who become involved in . . . investigations may, on their own initiative, submit a written statement to the Commission setting forth their interests and position in regard to the subject matter of the investigation. Upon request, the staff, in its discretion, may advise such persons of the general nature of the investigation, including the indicated violations as they pertain to them, and the amount of time that may be available for preparing and submitting a statement prior to the presentation of a staff recommendation to the Commission for the commencement of an administrative or injunction proceeding. Submissions by interested persons should be forwarded to the appropriate Division Director or Regional Director with a copy to the staff members conducting the investigation and should be clearly referenced to the specific investigation to which they relate. In the event a recommendation for the commencement of an enforcement proceeding is presented by the staff, any submissions by interested persons will be forwarded to the Commission in conjunction with the staff memorandum.

The staff of the Commission routinely seeks to introduce submissions made pursuant to Rule 5(c) as evidence in Commission enforcement proceedings, when the staff deems appropriate.

Rule 5(f) of the Commission's Rules on Informal and Other Procedures, 17 CFR 202.5(f), states:

In the course of the Commission's investigations, civil lawsuits, and administrative proceedings, the staff, with appropriate authorization, may discuss with persons involved the disposition of such matters by consent, by settlement, or in some other manner. It is the policy of the Commission, however, that the disposition of any such matter may not, expressly or impliedly, extend to any criminal charges that have been, or may be, brought against any such person or any recommendation with respect thereto. Accordingly, any person involved in an enforcement matter before the Commission who consents, or agrees to consent, to any judgment or order does so solely for the purpose of resolving the claims against him in that investigative, civil, or administrative matter and not for the purpose of resolving any criminal charges that have been, or might be, brought against him. This policy reflects the fact that neither the Commission nor its staff has the authority or responsibility for instituting, conducting, settling, or otherwise disposing of criminal proceedings. That authority and responsibility are vested in the Attorney General and representatives of the Department of Justice.

D. Freedom of Information Act

The Freedom of Information Act, 5 U.S.C. 552 (the "FOIA"), generally provides for disclosure of information to the public. Rule 83 of the Commission's Rules on Information and Requests, 17 CFR 200.83, provides a procedure by which a person can make a written request that information submitted to the Commission not be disclosed under the FOIA. That rule states that no determination as to the validity of such a request will be made until a request for disclosure of the information under the FOIA is received. Accordingly, no response to a request that information not be disclosed under the FOIA is necessary or will be given until a request for disclosure under the FOIA is received. If you desire an acknowledgment of receipt of your written request that information not be disclosed under the FOIA, please provide a duplicate request, together with a stamped, self-addressed envelope.

E. Authority for Solicitation of Information

Persons Directed to Supply Information Pursuant to Subpoena. The authority for requiring production of information is set forth in the subpoena. Disclosure of the information to the Commission is mandatory, subject to the valid assertion of any legal right or privilege you might have.

Persons Requested to Supply Information Voluntarily. One or more of the following provisions authorizes the Commission to solicit the information requested: Sections 19 and/or 20 of the Securities Act of 1933; Section 21 of the Securities Exchange Act of 1934; Section 321 of the Trust Indenture Act of 1939; Section 42 of the Investment Company Act of 1940; Section 209 of the Investment Advisers Act of 1940; and 17 CFR 202.5. Disclosure of the requested information to the Commission is voluntary on your part.

F. Effect of Not Supplying Information

Persons Directed to Supply Information Pursuant to Subpoena. If you fail to comply with the subpoena, the Commission may seek a court order requiring you to do so. If such an order is obtained and you thereafter fail to supply the information, you may be subject to civil and/or criminal sanctions for contempt of court. In addition, Section 21(c) of the Securities Exchange Act of 1934, Section 42(c) of the Investment Company Act of 1940, and Section 209(c) of the Investment Advisers Act of 1940 provide that fines and terms of imprisonment may be imposed upon any person who shall, without just cause, fail or refuse to attend and testify or to answer any lawful inquiry, or to produce books, papers, correspondence, memoranda, and other records in compliance with the subpoena.

Persons Requested to Supply Information Voluntarily. There are no direct sanctions and thus no direct effects for failing to provide all or any part of the requested information.

G. Principal Uses of Information

The Commission's principal purpose in soliciting the information is to gather facts in order to determine whether any person has violated, is violating, or is about to violate any provision of the federal securities laws or rules for which the Commission has enforcement authority, such as rules of securities exchanges and the rules of the Municipal Securities Rulemaking Board. Facts developed may, however, constitute violations of other laws or rules. Information provided may be used in Commission and other agency enforcement proceedings. Unless the Commission or its staff explicitly agrees to the contrary in writing, you should not assume that the Commission or its staff acquiesces in, accedes to, or concurs or agrees with, any position, condition, request, reservation of right, understanding, or any other statement that purports, or may be deemed, to be or to reflect a limitation upon the Commission's receipt, use, disposition, transfer, or retention, in accordance with applicable law, of information provided.

H. Routine Uses of Information

The Commission often makes its files available to other governmental agencies, particularly United States Attorneys and state prosecutors. There is a likelihood that information supplied by you will be made available to such agencies where appropriate. Whether or not the Commission makes its files available to other governmental agencies is, in general, a confidential matter between the Commission and such other governmental agencies.

Set forth below is a list of the routine uses which may be made of the information furnished.

- 1. To appropriate agencies, entities, and persons when (a) it is suspected or confirmed that the security or confidentiality of information in the system of records has been compromised; (b) the SEC has determined that, as a result of the suspected or confirmed compromise, there is a risk of harm to economic or property interests, identity theft or fraud, or harm to the security or integrity of this system or other systems or programs (whether maintained by the SEC or another agency or entity) that rely upon the compromised information; and (c) the disclosure made to such agencies, entities, and persons is reasonably necessary to assist in connection with the SEC's efforts to respond to the suspected or confirmed compromise and prevent, minimize, or remedy such harm.
- 2. To other federal, state, local, or foreign law enforcement agencies; securities self-regulatory organizations; and foreign financial regulatory authorities to assist in or coordinate regulatory or law enforcement activities with the SEC.
- 3. To national securities exchanges and national securities associations that are registered with the SEC, the Municipal Securities Rulemaking Board; the Securities Investor Protection Corporation; the Public Company Accounting Oversight Board; the federal banking authorities, including, but not limited to, the Board of Governors of the Federal Reserve System, the Comptroller of the Currency, and the Federal Deposit Insurance Corporation; state securities regulatory agencies or organizations; or regulatory authorities of a foreign government in connection with their regulatory or enforcement responsibilities.
- 4. By SEC personnel for purposes of investigating possible violations of, or to conduct investigations authorized by, the federal securities laws.
- 5. In any proceeding where the federal securities laws are in issue or in which the Commission, or past or present members of its staff, is a party or otherwise involved in an official capacity.

- 6. In connection with proceedings by the Commission pursuant to Rule 102(e) of its Rules of Practice, 17 CFR 201.102(e).
- 7. To a bar association, state accountancy board, or other federal, state, local, or foreign licensing or oversight authority; or professional association or self-regulatory authority to the extent that it performs similar functions (including the Public Company Accounting Oversight Board) for investigations or possible disciplinary action.
- 8. To a federal, state, local, tribal, foreign, or international agency, if necessary to obtain information relevant to the SEC's decision concerning the hiring or retention of an employee; the issuance of a security clearance; the letting of a contract; or the issuance of a license, grant, or other benefit.
- 9. To a federal, state, local, tribal, foreign, or international agency in response to its request for information concerning the hiring or retention of an employee; the issuance of a security clearance; the reporting of an investigation of an employee; the letting of a contract; or the issuance of a license, grant, or other benefit by the requesting agency, to the extent that the information is relevant and necessary to the requesting agency's decision on the matter.
- 10. To produce summary descriptive statistics and analytical studies, as a data source for management information, in support of the function for which the records are collected and maintained or for related personnel management functions or manpower studies; may also be used to respond to general requests for statistical information (without personal identification of individuals) under the Freedom of Information Act.
- 11. To any trustee, receiver, master, special counsel, or other individual or entity that is appointed by a court of competent jurisdiction, or as a result of an agreement between the parties in connection with litigation or administrative proceedings involving allegations of violations of the federal securities laws (as defined in section 3(a)(47) of the Securities Exchange Act of 1934, 15 U.S.C. 78c(a)(47)) or pursuant to the Commission's Rules of Practice, 17 CFR 201.100 900 or the Commission's Rules of Fair Fund and Disgorgement Plans, 17 CFR 201.1100-1106, or otherwise, where such trustee, receiver, master, special counsel, or other individual or entity is specifically designated to perform particular functions with respect to, or as a result of, the pending action or proceeding or in connection with the administration and enforcement by the Commission of the federal securities laws or the Commission's Rules of Practice or the Rules of Fair Fund and Disgorgement Plans.
- 12. To any persons during the course of any inquiry, examination, or investigation conducted by the SEC's staff, or in connection with civil litigation, if the staff has reason to believe that the person to whom the record is disclosed may have further information about the matters related therein, and those matters appeared to be relevant at the time to the subject matter of the inquiry.
- 13. To interns, grantees, experts, contractors, and others who have been engaged by the Commission to assist in the performance of a service related to this system of records and who need access to the records for the purpose of assisting the Commission in the efficient administration of its programs, including by performing clerical, stenographic, or data analysis functions, or by reproduction of records by electronic or other means. Recipients of these records shall be required to comply with the requirements of the Privacy Act of 1974, as amended, 5 U.S.C. 552a.
- 14. In reports published by the Commission pursuant to authority granted in the federal securities laws (as such term is defined in section 3(a)(47) of the Securities Exchange Act of 1934, 15 U.S.C. 78c(a)(47)), which authority shall include, but not be limited to, section 21(a) of the Securities Exchange Act of 1934, 15 U.S.C. 78u(a)).
- 15. To members of advisory committees that are created by the Commission or by Congress to render advice and recommendations to the Commission or to Congress, to be used solely in connection with their official designated functions.
- 16. To any person who is or has agreed to be subject to the Commission's Rules of Conduct, 17 CFR 200.735-1 to 200.735-18, and who assists in the investigation by the Commission of possible violations of the federal securities laws (as such term is defined in section 3(a)(47) of the Securities Exchange Act of 1934, 15 U.S.C. 78c(a)(47)), in the preparation or conduct of enforcement actions brought by the Commission for such violations, or otherwise in connection with the Commission's enforcement or regulatory functions under the federal securities laws.
- 17. To a Congressional office from the record of an individual in response to an inquiry from the Congressional office made at the request of that individual.
- 18. To members of Congress, the press, and the public in response to inquiries relating to particular Registrants and their activities, and other matters under the Commission's jurisdiction.
- 19. To prepare and publish information relating to violations of the federal securities laws as provided in 15 U.S.C. 78c(a)(47)), as amended.
- 20. To respond to subpoenas in any litigation or other proceeding.
- 21. To a trustee in bankruptcy.

22. To any governmental agency, governmental or private collection agent, consumer reporting agency or commercial reporting agency, governmental or private employer of a debtor, or any other person, for collection, including collection by administrative offset, federal salary offset, tax refund offset, or administrative wage garnishment, of amounts owed as a result of Commission civil or administrative proceedings.

* * * * *

Small Business Owners: The SEC always welcomes comments on how it can better assist small businesses. If you would like more information, or have questions or comments about federal securities regulations as they affect small businesses, please contact the Office of Small Business Policy, in the SEC's Division of Corporation Finance, at 202-551-3460. If you would prefer to comment to someone outside of the SEC, you can contact the Small Business Regulatory Enforcement Ombudsman at http://www.sba.gov/ombudsman or toll free at 888-REG-FAIR. The Ombudsman's office receives comments from small businesses and annually evaluates federal agency enforcement activities for their responsiveness to the special needs of small business.



U.S. Securities and Exchange Commission

Data Delivery Standards

This document describes the technical requirements for paper and electronic document productions to the U.S. Securities and Exchange Commission (SEC). **Any questions or proposed file formats other than those described below must be discussed with the legal and technical staff of the SEC Division of Enforcement prior to submission.**

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General Instructions

The current mailing address for all physical productions sent to the SEC is:

ENF-CPU (U.S. Securities & Exchange Commission), 14420 Albemarle Point Place, Suite 102, Chantilly, VA 20151-1750

Electronic files must be produced in their native format, i.e. the format in which they are ordinarily used and maintained during the normal course of business. For example, an MS Excel file must be produced as an MS Excel file rather than an image of a spreadsheet. (Note: An Adobe PDF file is not considered a native file unless the document was initially created as a PDF.)

In the event produced files require the use of proprietary software not commonly found in the workplace, the SEC will explore other format options with the producing party.

The proposed use of file de-duplication methodologies or computer-assisted review or technology-assisted review (TAR) during the processing of documents must be discussed with and approved by the legal and technical staff of the Division of Enforcement (ENF). If your production will be de-duplicated it is vital that you 1) preserve any unique metadata associated with the duplicate files, for example, custodian name and file location and, 2) make that unique metadata part of your production to the SEC.

General requirements for ALL document productions are:

- 1. A cover letter must be included with each production and should include the following information:
 - Case number, ease name and requesting SEC staff member name
 - A list of each piece of media included in the production with its unique production volume number
 - A list of custodians, identifying the Bates range for each custodian
 - d. A list of redacted documents and the redaction reason
 - e. The time zone in which the emails were standardized during conversion
 - f. Whether the production contains native files produced from Mac operating system environments
- Data can be produced on CD, DVD, thumb drive, etc., using the media requiring the least number of deliverables and labeled with the following:
 - a. Case number
 - b. Production date
 - c. Producing party
 - d. Bates range (if applicable)
- All submissions must be organized by custodian unless otherwise instructed.
- All document family groups, i.e. email attachments, embedded files, etc., should be produced together and children files should follow parent files sequentially in the Bates numbering.
- All load-ready collections should include only one data load file and one image pointer file.
- All load-ready text must be produced as separate document-level text files.
- All load-ready collections should account for custodians in the custodian field.
- All load-ready collections must provide the extracted contents of any container files to ensure all relevant files are produced as separate records.
- Audio files should be separated from data files if both are included in the production.
- 10. Only alphanumeric characters and the underscore character are permitted in file names and folder names. Special characters are not permitted.
- 11. All electronic productions submitted on media must be produced using industry standard self-extracting encryption software.
- 12. The SEC uses 7zip to access compressed files. Note that the SEC cannot accept files that use AES-256 Jpeg or pkAES-256-Cert Deflate compression methods, even if the files are created with 7zip. If you have any questions or need additional information, please reach out to the requesting SEC staff member.
- 13. Electronic productions of 20 GB or less are strongly encouraged to be submitted via Secure File Transfer. All Secure File Transfers should be sent to the SEC Centralized Production Unit (ENF-CPU@sec.gov) with a CC to the requesting SEC staff member. If you do not have your own Secure File Transfer application, you may reach out to the requesting SEC staff member for a link to the SEC system in order to upload your production. If using the SEC Secure File Transfer system, you will NOT be able to CC individuals outside the SEC on your upload transmission. Note that the SEC cannot accept productions made using file sharing sites such as Google Drive, Microsoft Office 365 or Dropbox.
- 14. Productions containing BSA or SAR material must be encrypted. Secure File Transfer applications may be used to produce BSA or SAR material. BSA or SAR material should be segregated and appropriately marked as BSA or SAR, or should be produced separately from other case related records.
- 15. Passwords for electronic documents, files, compressed archives and encrypted media must be provided separately either via email or in a cover letter apart from the media.
- 16. All electronic productions should be produced free of computer viruses.
- 17. Before producing forensically collected images, parties should reach out to the requesting SEC staff member in order to discuss appropriate handling.
- 18. Before producing unique data sets (large sets of relational data, website reconstruction, chat room data, etc.), parties should reach out to the requesting SEC staff member in order to discuss an appropriate production format.
- Additional technical descriptions can be found in the addendum to this document.

Please note that productions sent to the SEC via United States Postal Service are subject to Mail Irradiation, and as a result electronic productions may be damaged.

Delivery Formats

I. Imaged Productions

The SEC prefers that all scanned paper and electronic file collections be produced in a structured format including industry standard load files, Bates numbered image files, native files and searchable document-level text files. Bates numbers should not contain spaces. Hyphens (-) and underscores (_) are acceptable.

1. Images

- a. Black and white images must be 300 DPI Group IV single-page TIFF files
- b. Color images must be produced in JPEG format
- c. File names cannot contain embedded spaces or special characters (including the comma)
- d. Folder names cannot contain embedded spaces or special characters (including the comma)
- e. All image files must have a unique file name, i.e. Bates number
- f. Images must be endorsed with sequential Bates numbers in the lower right corner of each image
- g. The number of image files per folder should not exceed 2,000 files
- h. Excel spreadsheets should have a placeholder image named by the Bates number of the file
- i. AUTOCAD/photograph files should be produced as a single page JPEG file

2. Image Cross-Reference File

The image cross-reference file (.LOG or .OPT) links the images to the database records. It should be a comma-delimited file consisting of seven fields per line with a line in the cross-reference file for every image in the database with the following format:

ImageID, VolumeLabel, ImageFilePath, DocumentBreak, FolderBreak, BoxBreak, PageCount

3. Data File

The data file (.DAT) contains all of the fielded information that will be loaded into the database.

- a. The first line of the .DAT file must be a header row identifying the field names
- b. The .DAT file must use the following Concordance® default delimiters:

Comma ¶ ASCII character (020)

Quote b ASCII character (254)

- c. If the .DAT file is produced in Unicode format it must contain the byte order marker
- d. Date fields should be provided in the format: mm/dd/yyyy
- e. Date and time fields must be two separate fields
- f. The time zone must be included in all time fields
- g. If the production includes imaged emails and attachments, the attachment fields must be included to preserve the parent/child relationship between an email and its attachments
- h. An OCRPATH field must be included to provide the file path and name of the extracted text file on the produced storage media. The text file must be named after the FIRSTBATES. Do not include the text in the .DAT file.
- i. For productions with native files, a LINK field must be included to provide the file path and name of the native file on the produced storage media. The native file must be named after the FIRSTBATES.
- j. BEGATTACH and ENDATTACH fields must be two separate fields
- k. A complete list of metadata fields is available in Addendum A to this document

4. Text

Text must be produced as separate document-level text files, not as fields within the .DAT file. The text files must be named per the FIRSTBATES/Image Key and the full path to the text file (OCRPATH) should be included in the .DAT file. Text files may be in either ANSI or Unicode format, however, ALL text files must be in the same format within the same production. Note that productions containing text with foreign characters must produce text files in Unicode format to preserve the foreign characters. Text files must be in a separate folder, and the number of text files per folder should not exceed 2,000 files. There should be no special characters (including commas) in the folder names. For redacted documents, provide the full text for the redacted version.

5. Linked Native Files

Copies of original email and native file documents/attachments must be included for all electronic productions.

- a. Native file documents must be named per the FIRSTBATES number
- b. The full path of the native file must be provided in the .DAT file for the LINK field
- e. The number of native files per folder should not exceed 2,000 files

11. Native File Production without Load Files

With prior approval, native files may be produced without load files. Native file productions should not be Bates numbered. Native files must be produced as they are maintained in the normal course of business and organized by custodian-named file folders. Native email files (.PST or .MBOX) must be separated by custodian.

III. Adobe PDF File Production

With prior approval, Adobe PDF files may be produced in native file format.

- 1. All PDFs must be unitized at the document level, i.e., each PDF must represent a discrete document.
- 2. PDF files should be produced in separate folders named by the custodian. The folders should not contain any special characters (including commas).
- 3. All PDF files must contain embedded text that includes all discernible words within the document, not selected text or image only. This requires all layers of the PDF to be flattened first.
- 4. If PDF files are Bates endorsed, the PDF files must be named by the Bates range.

IV. Audio Files

Audio files from telephone recording systems must be produced in a format that is playable using Microsoft Windows Media PlayerTM. Additionally, the call information (metadata) related to each audio recording MUST be provided. The metadata file must be produced in a delimited text format. Field names must be included in the first row of the text file. The metadata must include, at a minimum, the following fields:

1) Caller Name: Caller's name or account/identification number

2) Originating Number: Caller's phone number3) Called Party Name: Called party's name

4) Terminating Number: Called party's phone number

5) Date: Date of call 6) Time: Time of call

7) Filename: Filename of audio file

V. Video Files

Video files must be produced in a format that is playable using Microsoft Windows Media Player™.

VI. Electronic Trade and Bank Records

When producing electronic trade records, bank records, or financial statements, provide the files in one of the following formats:

- 1. MS Excel spreadsheet with header information detailing the field structure. If any special codes exist in the dataset, a separate document must be provided that details all such codes. If details of the field structure do not fit in the header, a separate document must be provided that includes such details.
- 2. Delimited text file with header information detailing the field structure. The preferred delimiter is a vertical bar "|". If any special codes exist in the dataset, a separate document must be provided that details all such codes. If details of the field structure do not fit in the header, a separate document must be provided that includes such details.

VII. Electronic Phone Records

When producing an MS Excel spreadsheet for electronic phone records, provide the files in the following format:

- 1. MS Excel spreadsheet with header information detailing the field structure. If any special codes exist in the dataset, a separate document must be provided that details all such codes. If details of the field structure do not fit in the header, a separate document must be provided that includes such details. Data must be formatted in its native format (i.e. dates in a date format, numbers in an appropriate numerical format, and numbers with leading zeroes as text).
 - a. The metadata that must be included is outlined in **Addendum B** of this document. Each field of data must be loaded into a separate column. For example, Date and Start_Time must be produced in separate columns and not combined into a single column containing both pieces of information. Any fields of data that are provided in addition to those listed in **Addendum B** must also be loaded into separate columns.

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Data Delivery Standards

VIII. Audit Workpapers

The SEC prefers for workpapers to be produced in two formats: (1) With Bates numbers in accordance with the SEC Data Delivery Standards; and (2) in native format or if proprietary software was used, on a standalone laptop with the appropriate software loaded so that the workpapers may be reviewed as they would have been maintained in the ordinary course of business. The laptop must have printing capability, and when possible, the laptop should be configured to enable a Virtual Machine (VM) environment.

IX. Mobile Device Data

Before producing any mobile device data (including but not limited to text messages and application data) parties should reach out to the requesting SEC staff member in order to discuss the appropriate production format.

ADDENDUM A

The metadata of electronic document collections should be extracted and provided in a .DAT file using the field definition and formatting described below:

Field Name	Sample Data	Description
FIRSTBATES	EDC0000001	First Bates number of native file document/email
LASTBATES	EDC0000001	Last Bates number of native file document/email
		**The LASTBATES field should be populated
		for single page documents/emails.
ATTACHRANGE	EDC0000001 - EDC0000015	Bates number of the first page of the parent
		document to the Bates number of the last page of the
		last attachment "child" document
BEGATTACH	EDC0000001	First Bates number of attachment range
ENDATTACH	EDC0000015	Last Bates number of attachment range
PARENT_BATES	EDC0000001	First Bates number of parent document/Email **This PARENT BATES field should be populated in each record representing an attachment "child" document
CHILD BATES	EDC0000002; EDC0000014	First Bates number of "child" attachment(s); can be
_		more than one Bates number listed depending on the
		number of attachments
		**The CHILD BATES field should be populated in
		each record representing a "parent" document
CUSTODIAN	Smith, John	Email: Mailbox where the email resided
		Native: Name of the individual or department from
		whose files the document originated
FROM	John Smith	Email: Sender
		Native: Author(s) of document
		**semi-colon should be used to separate multiple
		entries
TO	Coffman, Janice; LeeW	Recipient(s)
	[mailto:LeeW@MSN.com]	**semi-colon should be used to separate multiple
CC	Front Theory on Frontier	entries
CC	Frank Thompson [mailto:	Carbon copy recipient(s)
	frank Thompson@cdt.com]	**semi-colon should be used to separate multiple entries
BCC	John Cain	
BCC	John Cain	Blind carbon copy recipient(s) **scmi-colon should be used to separate multiple
		entries
SUBJECT	Board Meeting Minutes	Email: Subject line of the email
SOUTE. I	Board Weeting Windles	Native: Title of document (if available)
FILE_NAME	BoardMeetingMinutes.doex	Native: Name of the original native file, including
TICE_NAME	Boardweetingivinutes.doex	extension
DATE_SENT	10/12/2010	Email: Date the email was sent
D.111 D_DD141	10,12,2010	Native: (empty)
TIME SENT/TIME	07:05 PM GMT	Email: Time the email was sent/ Time zone in which
ZONE		the emails were standardized during conversion.
_		Native: (cmpty)
		**This data must be a separate field and cannot be
		combined with the DATE_SENT field
TIME_ZONE	GMT	The time zone in which the emails were standardized
_		during conversion.
		Email: Time zone
l		Native: (empty)

LINK	D:\001\EDC0000001.msg	Hyperlink to the email or native file document **The linked file must be named per the FIRSTBATES number
MIME_TYPE	application/msword	The content type of an email or native file document as identified/extracted from the header
FILE_EXTEN	MSG	The file type extension representing the email or native file document; will vary depending on the format
AUTHOR	John Smith	Email: (empty) Native: Author of the document
LAST_AUTHOR	Jane Doe	Email: (empty) Native: Last Author of the document
DATE_CREATED	10/10/2010	Email: (empty) Native: Date the document was created
TIME_CREATED/T IME_ZONE	10:25 AM GMT	Email: (empty) Native: Time the document was created including time zone **This data must be a separate field and cannot be combined with the DATE_CREATED field
DATE_MOD	10/12/2010	Email: (empty) Native: Date the document was last modified
TIME_MOD/TIME_ ZONE	07:00 РМ GMT	Email: (empty) Native: Time the document was last modified including the time zone **This data must be a separate field and cannot be combined with the DATE MOD field
DATE_ACCESSD	10/12/2010	Email: (empty) Native: Date the document was last accessed
TIME_ACCESSD/T IME_ZONE	07:00 PM GMT	Email: (cmpty) Native: Time the document was last accessed including the time zone **This data must be a separate field and cannot be combined with the DATE_ACCESSD field
PRINTED_DATE	10/12/2010	Email: (empty) Native: Date the document was last printed
FILE SIZE	5,952	Size of native file document/email in KB
PGCOUNT	1	Number of pages in native file document/email
РАТН	J:\Shared\SmithJ\October Agenda.doc	Email: (empty) Native: Path where native file document was stored including original file name.
INTFILEPATH	Personal Folders\Deleted Items\Board Meeting Minutes.msg	Email: original location of email including original file name. Native: (empty)
INTMSGID	<000805c2c71b\$75977050\$cb 8306d1@MSN>	Email: Unique Message ID Native: (empty)

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HEADER	Return-Path: <example_from@dc.edu> X-SpamCatcher-Score:1[X] Reccived:from[136.167.40.119] (HELO dc.edu) by fe3.dc.edu (CommuniGate Pro SMTP4.1.8) with ESMTP-TLS id 61258719 for example_to@mail.dc.edu; Mon, 23 Aug 2004 11:40:10 - 0400 Message-ID: <4129F3CA.2020509@dc.edu> Date: Mon, 23 Aug 2005 11:40:36 -400 From: Taylor Evans <example_from@dc.edu> Uscr-Agent:Mozilla/5.0 (Windows;U; Windows NT 5.1: cn-US;rv:1.0.1) Gecko/20020823 Netscape/7.0 X-Accept-Language:en-us,en MIME-Version:1.0 To: Jon Smith <example_to@mail.dc.edu> Subject:Business Development Mceting Content-Type: text/plain;charset=us-ascii; format=flowed Content-Transfer-Encoding:7bit</example_to@mail.dc.edu></example_from@dc.edu></example_from@dc.edu>	
SIIA256	AD6128C5CA40164AF71A1E FC800E12D2F195CE07BB5F8 C813B0888A2DDE6A06F	SHA-256 hash value of the document.
OCRPATH	TEXT/001/EDC0000001.txt	Path to extracted text of the native file

Sample Image Cross-Reference File:

IMG0000001,,E:\001\IMG0000001.TIF,Y,,,
IMG0000002,,E:\001\IMG0000002.TIF,,,,
IMG0000003,,E:\001\IMG0000003.TIF,,,,
IMG0000004,,E:\001\IMG0000004.TIF,Y,,,
IMG0000005,,E:\001\IMG0000005.TIF,Y,,,
IMG0000006,,E:\001\IMG0000006.TIF,y,,,

ADDENDUM B

For Electronic Phone Records, include the following fields in separate columns:

For Calls:

- 1) Account Number
- 2) Connection Date Date the call was received or made
- 3) Connection Time Time call was received or made
- 4) Seizure Time Time it took for the call to be placed in seconds
- 5) Originating Number Phone that placed the call
- 6) Terminating Number Phone that received the call
- 7) Elapsed Time The length of time the call lasted, preferably in seconds
- 8) End Time The time the call ended
- 9) Number Dialed Actual number dialed
- 10) IMEI Originating Unique id to phone used to make call
- 11) IMEI Terminating Unique id to phone used to receive call
- 12) IMSI Originating Unique id to phone used to make call
- 13) IMSI Terminating- Unique id to phone used to receive call
- 14) Call Codes Identify call direction or other routing information
- 15) Time Zone Time Zone in which the call was received or placed, if applicable

For Text messages:

- 1) Account Number
- 2) Connection Date Date the text was received or made
- 3) Connection Time Time text was received or made
- 4) Originating Number Who placed the text
- 5) Terminating Number Who received the text
- 6) IMEI Originating Unique id to phone used to make text
- 7) IMEI Terminating Unique id to phone used to receive text
- 8) IMSI Originating Unique id to phone used to make text
- 9) IMSI Terminating- Unique id to phone used to receive text
- 10) Text Code Identify text direction, or other text routing information
- 11) Text Type Code Type of text message (sent SMS, MMS, or other)
- 12) Time Zone Time Zone in which the call was received or placed, if applicable

For Mobile Data Usage:

- 1) Account Number
- 2) Connection Date Date the data was received or made
- 3) Connection Time Time data was received or made
- 4) Originating number Number that used data
- 5) IMEI Originating Unique id of phone that used data
- 6) IMSI Originating Unique id of phone that used data
- 7) Data or Data codes Identify data direction, or other data routing information
- 8) Time Zone Time Zone in which the call was received or placed, if applicable

[FOR DOMESTIC U.S. RECORDS]

DECLARATION OF [Insert Name] CERTIFYING RECORDS OF REGULARLY CONDUCTED BUSINESS ACTIVITY

I, the undersigned, [insert name], pursuant to 28 U.S.C. § 1746, declare that:

- 1. I am employed by [insert name of company] as [insert position] and by reason of my position am authorized and qualified to make this declaration. [if possible supply additional information as to how person is qualified to make declaration, e.g., I am custodian of records, I am familiar with the company's recordkeeping practices or systems, etc.]
- 2. I further certify that the documents [attached hereto or submitted herewith] and stamped [insert bates range] are true copies of records that were:
 - (a) made at or near the time of the occurrence of the matters set forth therein, by, or from information transmitted by, a person with knowledge of those matters;
 - (b) kept in the course of regularly conducted business activity; and
 - (c) made by the regularly conducted business activity as a regular practice.

I declare under penalty of perjury that the foregoing is true and correct. Executed on [date].

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UNITED STATES SECURITIES AND EXCHANGE COMMISSION

100 PEARL STREET, SUITE 20-100 NEW YORK, NY 10004-2616

DIVISION OF ENFORCEMENT

February 26, 2024

<u>VIA UPS</u>	
CryptoManufaktur LLC	
c/o Thorsten Behrens	_
(b)(6); (b)(7)(C)	
Re: <u>C</u>	-089 <u>50</u>

Dear Mr. Behrens:

The enclosed subpoena has been issued pursuant to a formal order entered by the United States Securities and Exchange Commission. Pursuant to Rule 8 of the United States Securities and Exchange Commission's Rules Relating to Investigations, 17 C.F.R. § 203.8, I have enclosed a subpoena for documents issued to CryptoManufaktur LLC in connection with the above-referenced investigation.

This is a federal civil law enforcement investigation and you must produce all documents described in the attached subpoena. The enclosed subpoena requires CryptoManufaktur LLC to produce documents to the SEC by March 11, 2024 to:

ENF-CPU U.S. Securities and Exchange Commission 14420 Albemarle Point Place, Suite 102 Chantilly, VA 20151-1750

For smaller electronic productions under 10MB in size, the materials may be emailed to the following email address: ENF-CPU@sec.gov.

Please also provide a dupl	icate copy of any document	production cover letters to	me at
(b)(6); (b)(7)(C) $at_{(b)(7)(C)}^{(b)(6)}$ $\bar{a}ise$	c.gov, (b)(6); (b)(7)(C) at (b)(7)(C)	@sec.gov, (b)(6); (b)(7)(C)	at
(b)(6); (b)(7)(C) <u>@sec.gov</u> , and (b)(6); (b)(7	at (b)(6); @sec.gov	Additionally, please incl	ude the
SEC matter number and the name	of the requesting attorney v	when responding.	

Please carefully read the subpoena attachment, which contains, among other things, important instructions related to the manner of producing documents. In particular, if CryptoManufaktur LLC prefers to send us copies of original documents, the staff requests that you scan and produce hard copy documents, as well as electronic documents, in an

electronic format consistent with the SEC Data Delivery Standards attached hereto. All electronic documents responsive to the subpoena, including all metadata, should also be produced in their native software format. If you have any questions concerning the production of documents in an electronic format, please contact me as soon as possible and in any event before producing documents. For security reasons, we strongly encourage the encryption of sensitive documents before production.

When producing the records, please consecutively number and mark each document produced with a symbol that identifies it as being produced by CryptoManufaktur LLC and provide an index which briefly identifies the documents produced.

In your cover letter(s) accompanying the production of responsive documents, please enclose a list briefly describing each item you send. The list should identify the paragraph(s) in the subpoena attachment to which each item responds. Please also state in the cover letter(s) whether you believe CryptoManufaktur LLC has met the obligations of the subpoena by searching carefully and thoroughly for everything called for by the subpoena and sending it all to us.

A copy of the subpoena should be included with the documents that are produced. Correspondence should reference case number and requesting SEC staff member.

Passwords for documents, files, compressed archives, and encrypted media should be provided separately either via email addressed to ENF-CPU@sec.gov, or in a separate cover letter mailed separately from the data. Password correspondence should reference case number and requesting SEC staff member.

In addition, for any documents that qualify as records of regularly conducted activities under Federal Rule of Evidence 902(11), please have the appropriate representative(s) of CryptoManufaktur LLC complete a business records certification (a sample of which is enclosed) and return it with the document production. Execution of this certification may allow the Commission to introduce the documents provided by CryptoManufaktur LLC in any subsequent judicial proceeding, without requiring the testimony of a records custodian.

Enclosed is a copy of the Commission's Form 1662, entitled "Supplemental Information for Persons Requested to Supply Information Voluntarily or Directed to Supply Information Pursuant to a Commission Subpoena." This form explains how we may use the information which CryptoManufaktur LLC provides to the Commission and has other important information. Please provide a copy of this form to CryptoManufaktur LLC.

This investigation is a non-public, fact-finding inquiry. We are trying to determine whether there have been any violations of the federal securities laws. The investigation does not mean that we have concluded that anyone has violated the law. Also, the investigation does not mean that we have a negative opinion of any person, entity, or security.

If you have any questions or would like to discuss this matter, you may contact me at (b)(6); (b)(7)(C) èsec.gov.

Sincerely,	
(b)(6); (b)(7)(C)	
Division of Enforcement	_
(b)(6); (b)(7)(C) @sec.gov	

Enclosures: Subpoena and Attachment

Business Records Certification SEC Data Delivery Standards SEC Form 1662



SUBPOENA

UNITED STATES OF AMERICA SECURITIES AND EXCHANGE COMMISSION

C-08950

То:	CryptoManufaktur LLC c/o Thorsten Behrens (b)(6); (b)(7)(C)
\boxtimes	YOU MUST PRODUCE everything specified in the Attachment to this subpoena to officers of the Securities and Exchange Commission, at the place, date and time specified below:
	ENF-CPU, U.S. Securities and Exchange Commission, 14420 Albemarle Point Place, Suite 102 Chantilly, VA 20151-1750, no later than March 11, 2024.
	YOU MUST TESTIFY before officers of the Securities and Exchange Commission, at the place, date and time specified below:
	FEDERAL LAW REQUIRES YOU TO COMPLY WITH THIS SUBPOENA. If you do not comply with this subpoena, the SEC may bring an action in Federal Court to enforce this subpoena. Failure to comply with a court order enforcing this subpoena may result in the court imposing a fine, imprisonment, or both.
By:	(b)(6); (b)(7)(C) Date: February 26, 2024
	U.S. Securities and Exchange Commission
	New York Regional Office

I am an officer of the U.S. Securities and Exchange Commission authorized to issue subpoenas in this matter. The Securities and Exchange Commission has issued a formal order authorizing this investigation under Section 20(a) of the Securities Act of 1933.

100 Pearl Street, Suite 20-100 New York, NY 10004-2616

NOTICE TO WITNESS: If you claim a witness fee or mileage, submit this subpoena with the claim voucher.

SUBPOENA ATTACHMENT FOR CRYPTOMANUFAKTUR LLC C-08950

February 26, 2024

Definitions

As used in this subpoena, the words and phrases listed below shall have the following meanings:

- 1. "Relevant Period" means July 1, 2018 to the present.
- 2. "CryptoManufaktur" means the entity doing business under the name CryptoManufaktur LLC including parents, subsidiaries, affiliates, predecessors, successors, officers, directors, employees, agents, general partners, limited partners, partnerships and aliases, code names, or trade or business names used by any of the foregoing.
- 3. The "Ethereum Foundation" means the entity or business doing business under the name Ethereum Foundation, including, but not limited to, ethereum.org, the Ethereum Support Program, and parents, subsidiaries, affiliates, predecessors, successors, officers, directors, employees, agents, general partners, limited partners, partnerships and aliases, owners, code names, or trade or business names used by any of the foregoing.
- 4. "The Merge" or "Ethereum 2.0" means the transition by the Ethereum blockchain of its consensus mechanism from proof-of-work to proof-of-stake.
- 5. "Beacon Chain" means the original proof-of-stake blockchain that was launched in 2020 that ran alongside the original proof-of-work Ethereum blockchain.
- 6. "Document" shall include, but is not limited to, any written, printed, or typed matter including, but not limited to all drafts and copies bearing notations or marks not found in the original, letters and correspondence, interoffice communications, slips, tickets, records, worksheets, financial records, accounting documents, bookkeeping documents, memoranda, reports, manuals, telephone logs, facsimiles, messages of any type, telephone messages, text messages, voice mails, tape recordings, notices, instructions, minutes, summaries, notes of meetings, file folder markings, and any other organizational indicia, purchase orders, information recorded by photographic process, including microfilm and microfiche, computer printouts, spreadsheets, and other electronically stored information, including writings, drawings, graphs, charts, photographs, sound recordings, images, and other data or data compilations that are stored in any medium from which information can be retrieved, obtained, manipulated, or translated.
- 7. "Communication" means any correspondence, contact, discussion, e-mail, instant message, or any other kind of oral or written exchange or transmission of information (in the form of facts, ideas, inquiries, or otherwise), including but not limited to those made on Social Media Services, and any response thereto between two or more Persons or entities, including, without limitation, all telephone conversations, face-to-face meetings

or conversations, internal or external discussions, or exchanges of a Document or Documents.

- 8. "Concerning" means directly or indirectly, in whole or in part, describing, constituting, evidencing, recording, evaluating, substantiating, concerning, referring to, alluding to, in connection with, commenting on, relating to, regarding, discussing, showing, analyzing or reflecting.
- 9. "Agreement" means any actual or contemplated (i) written or oral Agreement; (ii) term or provision of such Agreement; or (iii) amendment of any nature or termination of such Agreement. A request for any Agreement among or between specified parties includes a request for all Documents Concerning (i) any actual or contemplated Agreement among or between such parties, whether or not such Agreement included any other Person; (ii) the drafting or negotiation of any such Agreement; (iii) any actual or contemplated demand, request or application for any such Agreement, and any response thereto; and (iv) any actual or contemplated objection or refusal to enter into any such Agreement, and any response thereto.
- 10. "Bank or Financial Account" means the domestic or foreign bank, brokerage, or financial accounts held, controlled, or used by you or by other people on your behalf. This includes, but is not limited to, accounts that contain currency, securities, or crypto assets.
- 11. "Person" means a natural person, firm, association, organization, partnership, business, trust, corporation, bank or any other private or public entity.
- 12. The term "you" and "your" means the Person to whom or entity to which this subpoena was issued.
- 13. To the extent necessary to bring within the scope of this this subpoena any information or Documents that might otherwise be construed to be outside its scope:
 - a. the word "or" means "and/or";
 - b. the word "and" means "and/or";
 - c. the functional words "each," "every" "any" and "all" shall each be deemed to include each of the other functional words;
 - d. the masculine gender includes the female gender and the female gender includes the masculine gender; and
 - e. the singular includes the plural and the plural includes the singular.

Instructions

1. Unless otherwise specified, this subpoena calls for production of the original Documents and all copies and drafts of same. Documents responsive to this subpoena may be in electronic or paper form. Electronic Documents such as email should be produced in accordance with the attached Document entitled SEC Data Delivery Standards. All responsive electronic Documents, including all metadata, should also be produced in their

native software format.

- 2. For Documents in paper format, you may send the originals, or, if you prefer, you may send copies of the originals. The Commission cannot reimburse you for the copying costs. If you are sending copies, the staff requests that you scan (rather than photocopy) hard copy Documents and produce them in an electronic format consistent with the SEC Data Delivery Standards. Alternatively, you may send us photocopies of the Documents in paper format. If you choose to send copies, you <u>must</u> secure and retain the originals and store them in a safe place. The staff may later request or require that you produce the originals.
- 3. Whether you scan or photocopy Documents, the copies must be identical to the originals, including even faint marks or print. Also, please note that if copies of a Document differ in any way, they are considered separate Documents and you must send each one. For example, if you have two copies of the same letter, but only one of them has handwritten notes on it, you must send both the clean copy and the one with notes.
- 4. In producing a photocopy of an original Document that contains post-it(s), notation flag(s), or other removable markings or attachments which may conceal all or a portion of the markings contained in the original Document, photocopies of the original Document both with and without the relevant post-it(s), notation flag(s), or removable markings or attachments should be produced.
- 5. Documents should be produced as they are kept in the ordinary course of business or be organized and labeled to correspond with the categories in this request. In that regard, Documents should be produced in a unitized manner, i.e., delineated with staples or paper clips to identify the Document boundaries.
- 6. Documents should be labeled with sequential numbering (bates-stamped).
- 7. The scope of any given request should not be limited or narrowed on the basis that it calls for Documents that are responsive to another request.
- 8. This subpoena covers all Documents in or subject to your possession, custody or control, including all Documents that are not in your immediate possession but that you have the effective ability to obtain, that are responsive, in whole or in part, to any of the individual requests set forth below. If, for any reason—including a claim of attorney-client privilege you do not produce something called for by the request, you should submit a list of what you are not producing. The list should describe each item separately, noting:
 - a. its author(s);
 - b. its date;
 - c. its subject matter;
 - d. the name of the Person who has the item now, or the last Person known to have it;
 - e. the names of everyone who ever had the item or a copy of it, and the names of everyone who was told the item's contents;
 - f. the basis upon which you are not producing the responsive Document;

- g. the specific request in the subpoena to which the Document relates;
- h. the attorney(s) and the client(s) involved; and
- i. in the case of the work product doctrine, the litigation for which the Document was prepared in anticipation.
- 9. If Documents responsive to this subpoena no longer exist because they have been lost, discarded, or otherwise destroyed, you should identify such Documents and give the date on which they were lost, discarded, or destroyed.

Documents to be Immediately Preserved and Produced

- 1. All Agreements between CryptoManufaktur and the Ethereum Foundation;
- 2. All Documents and Communications Concerning any grant or other source of funding received from the Ethereum Foundation;
- 3. All Documents and Communications Concerning any work conducted by CryptoManufaktur pursuant to any grant or other source of funding received from the Ethereum Foundation;
- 4. Documents sufficient to identify CryptoManufaktur's crypto asset wallet addresses or Bank or Financial Accounts, located within or outside the U.S., that received any grant or other source of funding from the Ethereum Foundation, as well as the amount of crypto assets or fiat received;
- 5. Documents sufficient to identify all meetings with the Ethereum Foundation, including any Documents related to the meetings identified;
- 6. All Communications with the Ethereum Foundation, including, but not limited to, Communications with board members, consultants, officers, directors, employees, developers, coders, and others performing work on behalf of these entities, related to The Merge or the Beacon Chain.

DECLARATION OF [Insert Name] CERTIFYING RECORDS OF REGULARLY CONDUCTED BUSINESS ACTIVITY

I, the undersigned, [insert name], pursuant to 28 U.S.C. § 1746, declare that:

- 1. I am employed by CryptoManufaktur LLC as [insert position] and by reason of my position am authorized and qualified to make this declaration. [if possible supply additional information as to how person is qualified to make declaration, e.g., I am custodian of records, I am familiar with the company's recordkeeping practices or systems, etc.]
- 2. I further certify that the documents [attached hereto or submitted herewith] and stamped [insert bates range] are true copies of records that were:
 - (a) made at or near the time of the occurrence of the matters set forth therein, by, or from information transmitted by, a person with knowledge of those matters;
 - (b) kept in the course of regularly conducted business activity; and
 - (c) made by the regularly conducted business activity as a regular practice.

I declare under penalty of perjury that the foregoing is true and correct. Executed on [date].

[Name]	



U.S. Securities and Exchange Commission

Data Delivery Standards

This document describes the technical requirements for paper and electronic document productions to the U.S. Securities and Exchange Commission (SEC). **Any questions or proposed file formats other than those described below must be discussed with the legal and technical staff of the SEC Division of Enforcement prior to submission. **

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General Instructions

Conoral Instructions

The current mailing address for all physical productions sent to the SEC is:

ENF-CPU (U.S. Securities & Exchange Commission), 14420 Albemarle Point Place, Suite 102, Chantilly, VA 20151-1750

Electronic files must be produced in their native format, i.e. the format in which they are ordinarily used and maintained during the normal course of business. For example, an MS Excel file must be produced as an MS Excel file rather than an image of a spreadsheet. (Note: An Adobe PDF file is not considered a native file unless the document was initially created as a PDF.)

In the event produced files require the use of proprietary software not commonly found in the workplace, the SEC will explore other format options with the producing party.

The proposed use of file de-duplication methodologies or computer-assisted review or technology-assisted review (TAR) during the processing of documents must be discussed with and approved by the legal and technical staff of the Division of Enforcement (ENF). If your production will be de-duplicated it is vital that you 1) preserve any unique metadata associated with the duplicate files, for example, custodian name and file location and, 2) make that unique metadata part of your production to the SEC.

General requirements for ALL document productions are:

- 1. A cover letter must be included with each production and should include the following information:
 - a. Case number, ease name and requesting SEC staff member name
 - b. A list of each piece of media included in the production with its unique production volume number
 - c. A list of custodians, identifying the Bates range for each custodian
 - d. A list of redacted documents and the redaction reason
 - c. The time zone in which the emails were standardized during conversion
 - f. Whether the production contains native files produced from Mac operating system environments
- Data can be produced on CD, DVD, thumb drive, etc., using the media requiring the least number of deliverables and labeled with the following:
 - a. Case number
 - b. Production date
 - c. Producing party
 - d. Bates range (if applicable)
- All submissions must be organized by custodian unless otherwise instructed.
- 4. All document family groups, i.e. email attachments, embedded files, etc., should be produced together and children files should follow parent files sequentially in the Bates numbering.
- 5. All load-ready collections should include only one data load file and one image pointer file.
- 6. All load-ready text must be produced as separate document-level text files.
- 7. All load-ready collections should account for custodians in the custodian field.
- All load-ready collections must provide the extracted contents of any container files to ensure all relevant files are produced as separate records.
- 9. Audio files should be separated from data files if both are included in the production.
- 10. Only alphanumeric characters and the underscore character are permitted in file names and folder names. Special characters are not permitted.
- 11. All electronic productions submitted on media must be produced using industry standard self-extracting encryption software.
- 12. The SEC uses 7zip to access compressed files. Note that the SEC cannot accept files that use AES-256 Jpeg or pkAES-256-Cert Deflate compression methods, even if the files are created with 7zip. If you have any questions or need additional information, please reach out to the requesting SEC staff member.
- 13. Electronic productions of 30 GB or less are strongly encouraged to be submitted via Secure File Transfer. All Secure File Transfers should be sent to the SEC Centralized Production Unit (ENF-CPU@sec.gov) with a CC to the requesting SEC staff member. If you do not have your own Secure File Transfer application, you may reach out to the requesting SEC staff member for a link to the SEC system in order to upload your production. If using the SEC Secure File Transfer system, you will NOT be able to CC individuals outside the SEC on your upload transmission. Note that the SEC cannot accept productions made using file sharing sites such as Google Drive or Microsoft Office 365.
- 14. Productions containing BSA or SAR material must be encrypted. Secure File Transfer applications may be used to produce BSA or SAR material. BSA or SAR material should be segregated and appropriately marked as BSA or SAR, or should be produced separately from other case related records.
- 15. Passwords for electronic documents, files, compressed archives and encrypted media must be provided separately either via email or in a cover letter apart from the media.
- 16. All electronic productions should be produced free of computer viruses.
- 17. Before producing forensically collected images, parties should reach out to the requesting SEC staff member in order to discuss appropriate handling.
- 18. Before producing unique data sets (large sets of relational data, website reconstruction, chat room data, etc.), parties should reach out to the requesting SEC staff member in order to discuss an appropriate production format.
- Additional technical descriptions can be found in the addendum to this document.

Please note that productions sent to the SEC via United States Postal Service are subject to Mail Irradiation, and as a result electronic productions may be damaged.

Delivery Formats

Imaged Productions

The SEC prefers that all scanned paper and electronic file collections be produced in a structured format including industry standard load files, Bates numbered image files, native files and searchable document-level text files. Bates numbers should not contain spaces. Hyphens (-) and underscores (-) are acceptable.

1. Images

- Black and white images must be 300 DPI Group IV single-page TIFF files
- b. Color images must be produced in JPEG format
- File names cannot contain embedded spaces or special characters (including the comma)
- d. Folder names cannot contain embedded spaces or special characters (including the comma)
- e. All image files must have a unique file name, i.e. Bates number
- f. Images must be endorsed with sequential Bates numbers in the lower right corner of each image
- The number of image files per folder should not exceed 2,000 files g.
- h. Excel spreadsheets should have a placeholder image named by the Bates number of the file
- AUTOCAD/photograph files should be produced as a single page JPEG file

2. Image Cross-Reference File

The image cross-reference file (LOG or .OPT) links the images to the database records. It should be a comma-delimited file consisting of seven fields per line with a line in the cross-reference file for every image in the database with the following format:

ImageID, VolumeLabel, ImageFilePath, DocumentBreak, FolderBreak, BoxBreak, PageCount

3. Data File

The data file (.DAT) contains all of the fielded information that will be loaded into the database.

- The first line of the .DAT file must be a header row identifying the field names
- The .DAT file must use the following *Concordance*® default delimiters:

Comma ¶ ASCII character (020)

Quote b ASCII character (254)

- c. If the .DAT file is produced in Unicode format it must contain the byte order marker
- d. Date fields should be provided in the format: mm/dd/yyyy
- Date and time fields must be two separate fields
- The time zone must be included in all time fields f.
- If the production includes imaged emails and attachments, the attachment fields must be included to preserve the parent/child relationship between an email and its attachments
- An OCRPATH field must be included to provide the file path and name of the extracted text file on the produced storage media. The text file must be named after the FIRSTBATES. Do not include the text in the .DAT file.
- For productions with native files, a LINK field must be included to provide the file path and name of the native file on the produced storage media. The native file must be named after the FIRSTBATES.
- BEGATTACH and ENDATTACH fields must be two separate fields
- A complete list of metadata fields is available in Addendum A to this document

4. Text

Text must be produced as separate document-level text files, not as fields within the .DAT file. The text files must be named per the FIRSTBATES/Image Key and the full path to the text file (OCRPATII) should be included in the .DAT file. Text files may be in either ANSI or Unicode format, however, ALL text files must be in the same format within the same production. Note that productions containing text with foreign characters must produce text files in Unicode format to preserve the foreign characters. Text files must be in a separate folder, and the number of text files per folder should not exceed 2,000 files. There should be no special characters (including commas) in the folder names. For redacted documents, provide the full text for the redacted version.

Linked Native Files

Copies of original email and native file documents/attachments must be included for all electronic productions.

- a. Native file documents must be named per the FIRSTBATES number
- b. The full path of the native file must be provided in the .DAT file for the LINK field
- The number of native files per folder should not exceed 2,000 files

II. Native File Production without Load Files

With prior approval, native files may be produced without load files. Native file productions should not be Bates numbered. Native files must be produced as they are maintained in the normal course of business and organized by custodian-named file folders. Native email files (.PST or .MBOX) must be separated by custodian.

III. Adobe PDF File Production

With prior approval, Adobe PDF files may be produced in native file format.

- 1. All PDFs must be unitized at the document level, i.e. each PDF must represent a discrete document.
- 2. PDF files should be produced in separate folders named by the custodian. The folders should not contain any special characters (including commas).
- 3. All PDF files must contain embedded text that includes all discernible words within the document, not selected text or image only. This requires all layers of the PDF to be flattened first.
- 4. If PDF files are Bates endorsed, the PDF files must be named by the Bates range.

IV. Audio Files

Audio files from telephone recording systems must be produced in a format that is playable using Microsoft Windows Media PlayerTM. Additionally, the call information (metadata) related to each audio recording MUST be provided. The metadata file must be produced in a delimited text format. Field names must be included in the first row of the text file. The metadata must include, at a minimum, the following fields:

1) Caller Name: Caller's name or account/identification number

2) Originating Number: Caller's phone number3) Called Party Name: Called party's name

4) Terminating Number: Called party's phone number

5) Date: Date of call
6) Time: Time of call

7) Filename: Filename of audio file

V. Video Files

Video files must be produced in a format that is playable using Microsoft Windows Media PlayerTM.

VI. Electronic Trade and Bank Records

When producing electronic trade records, bank records, or financial statements, provide the files in one of the following formats:

- 1. MS Excel spreadsheet with header information detailing the field structure. If any special codes exist in the dataset, a separate document must be provided that details all such codes. If details of the field structure do not fit in the header, a separate document must be provided that includes such details.
- 2. Delimited text file with header information detailing the field structure. The preferred delimiter is a vertical bar "|". If any special codes exist in the dataset, a separate document must be provided that details all such codes. If details of the field structure do not fit in the header, a separate document must be provided that includes such details.

VII. Electronic Phone Records

When producing an MS Excel spreadsheet for electronic phone records, provide the files in the following format:

- 1. MS Excel spreadsheet with header information detailing the field structure. If any special codes exist in the dataset, a separate document must be provided that details all such codes. If details of the field structure do not fit in the header, a separate document must be provided that includes such details. Data must be formatted in its native format (i.e. dates in a date format, numbers in an appropriate numerical format, and numbers with leading zeroes as text).
 - a. The metadata that must be included is outlined in **Addendum B** of this document. Each field of data must be loaded into a separate column. For example, Date and Start_Time must be produced in separate columns and not combined into a single column containing both pieces of information. Any fields of data that are provided in addition to those listed in **Addendum B** must also be loaded into separate columns.

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Data Delivery Standards

VIII. Audit Workpapers

The SEC prefers for workpapers to be produced in two formats: (1) With Bates numbers in accordance with the SEC Data Delivery Standards; and (2) in native format via laptop computer, web-based viewing platform, or otherwise, allowing for viewing in the same format and organization as the firm's audit team. Prior to production of workpapers via laptop computer or web-based viewing platform, audit firms should contact the requesting SEC staff member for additional information and written agreements addressing use of software, access, and viewing protocols.

IX. Mobile Device Data

Before producing any mobile device data (including but not limited to text messages and application data) parties should reach out to the requesting SEC staff member in order to discuss the appropriate production format. Productions containing chat data from applications must be identified at the time of production and the following information must be provided to the requesting SEC staff member and the SEC Centralized Production Unit: chat application, chat data format, and how the length of a chat is determined (i.e. set duration of time, number of minutes without messages, etc.)

ADDENDUM A

The metadata of electronic document collections should be extracted and provided in a .DAT file using the field definition and formatting described below:

Field Name	Sample Data	Description
FIRSTBATES	EDC0000001	First Bates number of native file document/email
LASTBATES	EDC0000001	Last Bates number of native file document/email
		**The LASTBATES field should be populated
		for single page documents/emails.
ATTACHRANGE	EDC0000001 - EDC0000015	Bates number of the first page of the parent
		document to the Bates number of the last page of the
		last attachment "child" document
BEGATTACH	EDC0000001	First Bates number of attachment range
ENDATTACH	EDC0000015	Last Bates number of attachment range
PARENT_BATES	EDC0000001	First Bates number of parent document/Email **This PARENT_BATES field should be populated in each record representing an attachment "child" document
CHILD BATES	EDC0000002; EDC0000014	First Bates number of "child" attachment(s); can be
_	·	more than one Bates number listed depending on the
		number of attachments
		**The CHILD_BATES field should be populated in
		each record representing a "parent" document
CUSTODIAN	Smith, John	Email: Mailbox where the email resided
		Native: Name of the individual or department from whose files the document originated
FROM	John Smith	Email: Sender
		Native: Author(s) of document
		**semi-colon should be used to separate multiple entries
ТО	Coffman, Janice; LeeW	Recipient(s)
	[mailto:LeeW@MSN.com]	**scmi-colon should be used to separate multiple entries
CC	Frank Thompson [mailto:	Carbon copy recipient(s)
	frank_Thompson@cdt.com]	**semi-colon should be used to separate multiple
		entries
BCC	John Cain	Blind carbon copy recipient(s)
		**semi-colon should be used to separate multiple
		entries
SUBJECT	Board Meeting Minutes	Email: Subject line of the email
		Native: Title of document (if available)
FILE_NAME	BoardMeetingMinutes.docx	Native: Name of the original native file, including
		extension
DATE_SENT	10/12/2010	Email: Date the email was sent
		Native: (empty)
TIME_SENT/TIME	07:05 PM GMT	Email: Time the email was sent/ Time zone in which
_ZONE		the emails were standardized during conversion.
		Native: (empty)
		**This data must be a separate field and cannot be
TIME ZONE	CMT	combined with the DATE_SENT field
TIME_ZONE	GMT	The time zone in which the emails were standardized
		during conversion. Email: Time zone
		Native: (empty)
		(marvo, (empty)

LINK	D:\001\EDC0000001.msg	Hyperlink to the email or native file document **The linked file must be named per the FIRSTBATES number
MIME_TYPE	application/msword	The content type of an email or native file document as identified/extracted from the header
FILE_EXTEN	MSG	The file type extension representing the email or native file document; will vary depending on the format
AUTHOR	John Smith	Email: (empty) Native: Author of the document
LAST_AUTHOR	Jane Doe	Email: (empty) Native: Last Author of the document
DATE_CREATED	10/10/2010	Email: (empty) Native: Date the document was created
TIME_CREATED/T IME_ZONE	10:25 AM GMT	Email: (empty) Native: Time the document was created including time zone **This data must be a separate field and cannot be combined with the DATE_CREATED field
DATE_MOD	10/12/2010	Email: (empty) Native: Date the document was last modified
TIME_MOD/TIME_ ZONE	07:00 PM GMT	Email: (empty) Native: Time the document was last modified including the time zone **This data must be a separate field and cannot be combined with the DATE_MOD field
DATE_ACCESSD	10/12/2010	Email: (empty) Native: Date the document was last accessed
TIME_ACCESSD/T IME_ZONE	07:00 PM GMT	Email: (empty) Native: Time the document was last accessed including the time zone **This data must be a separate field and cannot be combined with the DATE_ACCESSD field
PRINTED_DATE	10/12/2010	Email: (empty) Native: Date the document was last printed
FILE_SIZE	5,952	Size of native file document/email in KB
PGCOUNT	1	Number of pages in native file document/email
PATH	J:\Shared\SmithJ\October Agenda.doc	Email: (empty) Native: Path where native file document was stored including original file name.
INTFILEPATH	Personal Folders\Deleted Items\Board Meeting Minutes.msg	Email: original location of email including original file name. Native: (empty)
INTMSGID	<000805c2c71bS75977050Scb 8306d1@MSN>	Email: Unique Message ID Native: (empty)

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HEADER SHA254	Return-Path: <example_from@dc.edu> X-SpamCatcher-Score:1[X] Received:from[136.167.40.119] (HELO dc.edu) by fe3.dc.edu (CommuniGate Pro SMTP4.1.8) with ESMTP-TLS id 61258719 for example_to@mail.dc.edu; Mon, 23 Aug 2004 11:40:10 - 0400 Message-ID: <4129F3CA.2020509@dc.edu> Date: Mon, 23 Aug 2005 11:40:36 -400 From: Taylor Evans <example_from@dc.edu> User-Agent:Mozilla/5.0 (Windows;U; Windows NT 5.1: en-US;rv:1.0.1) Gecko/20020823 Netscape/7.0 X-Accept-Language:en-us,en MIME-Version:1.0 To: Jon Smith <example_to@mail.dc.edu> Subject:Business Development Meeting Content-Type: text/plain;charset=us-ascii; format=flowed Content-Transfer-Encoding:7bit</example_to@mail.dc.edu></example_from@dc.edu></example_from@dc.edu>	Email: The email header information Native: (empty) SHA-256 hash value of the document.
SHA256	AD6128C5CA40164AF71A1E FC800E12D2F195CE07BB5F8 C813B0888A2DDE6A06F	SHA-230 hash value of the document.
OCRPATH	TEXT/001/EDC0000001.txt	Path to extracted text of the native file

Sample Image Cross-Reference File:

IMG0000001,,E:\001\IMG0000001.TIF,Y,,,
IMG0000002,,E:\001\IMG0000002.TIF,,,,
IMG0000003,,E:\001\IMG0000003.TIF,,,,
IMG0000004,,E:\001\IMG0000005.TIF,Y,,,
IMG0000005,,E:\001\IMG0000005.TIF,Y,,,
IMG0000006,,E:\001\IMG0000006.TIF,,,,,

ADDENDUM B

For Electronic Phone Records, include the following fields in separate columns:

For Calls:

- 1) Account Number
- 2) Connection Date Date the call was received or made
- 3) Connection Time Time call was received or made
- 4) Seizure Time Time it took for the call to be placed in seconds
- 5) Originating Number Phone that placed the call
- 6) Terminating Number Phone that received the call
- 7) Elapsed Time The length of time the call lasted, preferably in seconds
- 8) End Time The time the call ended
- 9) Number Dialed Actual number dialed
- 10) IMEI Originating Unique id to phone used to make call
- 11) IMEI Terminating-Unique id to phone used to receive call
- 12) IMSI Originating Unique id to phone used to make call
- 13) IMSI Terminating- Unique id to phone used to receive call
- 14) Call Codes Identify call direction or other routing information
- 15) Time Zone Time Zone in which the call was received or placed, if applicable

For Text messages:

- 1) Account Number
- 2) Connection Date Date the text was received or made
- 3) Connection Time Time text was received or made
- 4) Originating Number Who placed the text
- 5) Terminating Number Who received the text
- 6) IMEI Originating Unique id to phone used to make text
- 7) IMEI Terminating—Unique id to phone used to receive text
- 8) IMSI Originating Unique id to phone used to make text
- 9) IMSI Terminating- Unique id to phone used to receive text
- 10) Text Code Identify text direction, or other text routing information
- 11) Text Type Code Type of text message (sent SMS, MMS, or other)
- 12) Time Zone Time Zone in which the call was received or placed, if applicable

For Mobile Data Usage:

- 1) Account Number
- Connection Date Date the data was received or made
- 3) Connection Time Time data was received or made
- 4) Originating number Number that used data
- 5) IMEI Originating Unique id of phone that used data
- 6) IMSI Originating Unique id of phone that used data
- 7) Data or Data codes Identify data direction, or other data routing information
- 8) Time Zone Time Zone in which the call was received or placed, if applicable

SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549

Supplemental Information for Persons Requested to Supply Information Voluntarily or Directed to Supply Information Pursuant to a Commission Subpoena

A. False Statements and Documents

Section 1001 of Title 18 of the United States Code provides that fines and terms of imprisonment may be imposed upon:

[W]hoever, in any matter within the jurisdiction of the executive, legislative, or judicial branch of the Government of the United States, knowingly and willfully--

- (1) falsifies, conceals, or covers up by any trick, scheme, or device a material fact;
- (2) makes any materially false, fictitious, or fraudulent statement or representation; or
- (3) makes or uses any false writing or document knowing the same to contain any materially false, fictitious, or fraudulent statement or entry.

Section 1519 of Title 18 of the United States Code provides that fines and terms of imprisonment may be imposed upon:

Whoever knowingly alters, destroys, mutilates, conceals, covers up, falsifies, or makes a false entry in any record, document, or tangible object with the intent to impede, obstruct, or influence the investigation or proper administration of any matter within the jurisdiction of any department or agency of the United States . . ., or in relation to or contemplation of any such matter.

B. Testimony

If your testimony is taken, you should be aware of the following:

- 1. Record. Your testimony will be transcribed by a reporter. If you desire to go off the record, please indicate this to the Commission employee taking your testimony, who will determine whether to grant your request. The reporter will not go off the record at your, or your counsel's, direction.
- 2. Counsel. You have the right to be accompanied, represented and advised by counsel of your choice. Your counsel may advise you before, during and after your testimony; question you briefly at the conclusion of your testimony to clarify any of the answers you give during testimony; and make summary notes during your testimony solely for your use. If you are accompanied by counsel, you may consult privately.

If you are not accompanied by counsel, please advise the Commission employee taking your testimony if, during the testimony, you desire to be accompanied, represented and advised by counsel. Your testimony will be adjourned once to afford you the opportunity to arrange to be so accompanied, represented or advised.

You may be represented by counsel who also represents other persons involved in the Commission's investigation. This multiple representation, however, presents a potential conflict of interest if one client's interests are or may be adverse to another's. If you are represented by counsel who also represents other persons involved in the investigation, the Commission will assume that you and counsel have discussed and resolved all issues concerning possible conflicts of interest. The choice of counsel, and the responsibility for that choice, is yours.

3. Transcript Availability. Rule 6 of the Commission's Rules Relating to Investigations, 17 CFR 203.6, states:

A person who has submitted documentary evidence or testimony in a formal investigative proceeding shall be entitled, upon written request, to procure a copy of his documentary evidence or a transcript of his testimony on payment of the appropriate fees: *Provided, however*, That in a nonpublic formal investigative proceeding the Commission may for good cause deny such request. In any event, any witness, upon proper identification, shall have the right to inspect the official transcript of the witness' own testimony.

If you wish to purchase a copy of the transcript of your testimony, the reporter will provide you with a copy of the appropriate form. Persons requested to supply information voluntarily will be allowed the rights provided by this rule.

4. *Perjury.* Section 1621 of Title 18 of the United States Code provides that fines and terms of imprisonment may be imposed upon:

Whoever--

(1) having taken an oath before a competent tribunal, officer, or person, in any case in which a law of the United States authorizes an oath to be administered, that he will testify, declare,

depose, or certify truly, or that any written testimony, declaration, deposition, or certificate by him subscribed, is true, willfully and contrary to such oath states or subscribes any material matter which he does not believe to be true; or

- (2) in any declaration, certificate, verification, or statement under penalty of perjury as permitted under section 1746 of title 28, United States Code, willfully subscribes as true any material matter which he does not believe to be true.
- 5. Fifth Amendment and Voluntary Testimony. Information you give may be used against you in any federal, state, local or foreign administrative, civil or criminal proceeding brought by the Commission or any other agency.

You may refuse, in accordance with the rights guaranteed to you by the Fifth Amendment to the Constitution of the United States, to give any information that may tend to incriminate you.

If your testimony is not pursuant to subpoena, your appearance to testify is voluntary, you need not answer any question, and you may leave whenever you wish. Your cooperation is, however, appreciated.

6. Formal Order Availability. If the Commission has issued a formal order of investigation, it will be shown to you during your testimony, at your request. If you desire a copy of the formal order, please make your request in writing.

C. Submissions and Settlements

Rule 5(c) of the Commission's Rules on Informal and Other Procedures. 17 CFR 202.5(c), states:

Persons who become involved in . . . investigations may, on their own initiative, submit a written statement to the Commission setting forth their interests and position in regard to the subject matter of the investigation. Upon request, the staff, in its discretion, may advise such persons of the general nature of the investigation, including the indicated violations as they pertain to them, and the amount of time that may be available for preparing and submitting a statement prior to the presentation of a staff recommendation to the Commission for the commencement of an administrative or injunction proceeding. Submissions by interested persons should be forwarded to the appropriate Division Director or Regional Director with a copy to the staff members conducting the investigation and should be clearly referenced to the specific investigation to which they relate. In the event a recommendation for the commencement of an enforcement proceeding is presented by the staff, any submissions by interested persons will be forwarded to the Commission in conjunction with the staff memorandum.

The staff of the Commission routinely seeks to introduce submissions made pursuant to Rule 5(c) as evidence in Commission enforcement proceedings, when the staff deems appropriate.

Rule 5(f) of the Commission's Rules on Informal and Other Procedures, 17 CFR 202.5(f), states:

In the course of the Commission's investigations, civil lawsuits, and administrative proceedings, the staff, with appropriate authorization, may discuss with persons involved the disposition of such matters by consent, by settlement, or in some other manner. It is the policy of the Commission, however, that the disposition of any such matter may not, expressly or impliedly, extend to any criminal charges that have been, or may be, brought against any such person or any recommendation with respect thereto. Accordingly, any person involved in an enforcement matter before the Commission who consents, or agrees to consent, to any judgment or order does so solely for the purpose of resolving the claims against him in that investigative, civil, or administrative matter and not for the purpose of resolving any criminal charges that have been, or might be, brought against him. This policy reflects the fact that neither the Commission nor its staff has the authority or responsibility for instituting, conducting, settling, or otherwise disposing of criminal proceedings. That authority and responsibility are vested in the Attorney General and representatives of the Department of Justice.

D. Freedom of Information Act

The Freedom of Information Act, 5 U.S.C. 552 (the "FOIA"), generally provides for disclosure of information to the public. Rule 83 of the Commission's Rules on Information and Requests, 17 CFR 200.83, provides a procedure by which a person can make a written request that information submitted to the Commission not be disclosed under the FOIA. That rule states that no determination as to the validity of such a request will be made until a request for disclosure of the information under the FOIA is received. Accordingly, no response to a request that information not be disclosed under the FOIA is necessary or will be given until a request for disclosure under the FOIA is received. If you desire an acknowledgment of receipt of your written request that information not be disclosed under the FOIA, please provide a duplicate request, together with a stamped, self-addressed envelope.

E. Authority for Solicitation of Information

Persons Directed to Supply Information Pursuant to Subpoena. The authority for requiring production of information is set forth in the subpoena. Disclosure of the information to the Commission is mandatory, subject to the valid assertion of any legal right or privilege you might have.

Persons Requested to Supply Information Voluntarily. One or more of the following provisions authorizes the Commission to solicit the information requested: Sections 19 and/or 20 of the Securities Act of 1933; Section 21 of the Securities Exchange Act of 1934; Section 321 of the Trust Indenture Act of 1939; Section 42 of the Investment Company Act of 1940; Section 209 of the Investment Advisers Act of 1940; and 17 CFR 202.5. Disclosure of the requested information to the Commission is voluntary on your part.

F. Effect of Not Supplying Information

Persons Directed to Supply Information Pursuant to Subpoena. If you fail to comply with the subpoena, the Commission may seek a court order requiring you to do so. If such an order is obtained and you thereafter fail to supply the information, you may be subject to civil and/or criminal sanctions for contempt of court. In addition, Section 21(c) of the Securities Exchange Act of 1934, Section 42(c) of the Investment Company Act of 1940, and Section 209(c) of the Investment Advisers Act of 1940 provide that fines and terms of imprisonment may be imposed upon any person who shall, without just cause, fail or refuse to attend and testify or to answer any lawful inquiry, or to produce books, papers, correspondence, memoranda, and other records in compliance with the subpoena.

Persons Requested to Supply Information Voluntarily. There are no direct sanctions and thus no direct effects for failing to provide all or any part of the requested information.

G. Principal Uses of Information

The Commission's principal purpose in soliciting the information is to gather facts in order to determine whether any person has violated, is violating, or is about to violate any provision of the federal securities laws or rules for which the Commission has enforcement authority, such as rules of securities exchanges and the rules of the Municipal Securities Rulemaking Board. Facts developed may, however, constitute violations of other laws or rules. Information provided may be used in Commission and other agency enforcement proceedings. Unless the Commission or its staff explicitly agrees to the contrary in writing, you should not assume that the Commission or its staff acquiesces in, accedes to, or concurs or agrees with, any position, condition, request, reservation of right, understanding, or any other statement that purports, or may be deemed, to be or to reflect a limitation upon the Commission's receipt, use, disposition, transfer, or retention, in accordance with applicable law, of information provided.

H. Routine Uses of Information

The Commission often makes its files available to other governmental agencies, particularly United States Attorneys and state prosecutors. There is a likelihood that information supplied by you will be made available to such agencies where appropriate. Whether or not the Commission makes its files available to other governmental agencies is, in general, a confidential matter between the Commission and such other governmental agencies.

Set forth below is a list of the routine uses which may be made of the information furnished.

- 1. To appropriate agencies, entities, and persons when (1) the SEC suspects or has confirmed that there has been a breach of the system of records, (2) the SEC has determined that as a result of the suspected or confirmed breach there is a risk of harm to individuals, the SEC (including its information systems, programs, and operations), the Federal Government, or national security; and (3) the disclosure made to such agencies, entities, and persons is reasonably necessary to assist in connection with the SEC's efforts to respond to the suspected or confirmed breach or to prevent, minimize, or remedy such harm.
- 2. To other Federal, state, local, or foreign law enforcement agencies; securities self-regulatory organizations; and foreign financial regulatory authorities to assist in or coordinate regulatory or law enforcement activities with the SEC.
- 3. To national securities exchanges and national securities associations that are registered with the SEC, the Municipal Securities Rulemaking Board; the Securities Investor Protection Corporation; the Public Company Accounting Oversight Board; the Federal banking authorities, including, but not limited to, the Board of Governors of the Federal Reserve System, the Comptroller of the Currency, and the Federal Deposit Insurance Corporation; state securities regulatory agencies or organizations; or regulatory authorities of a foreign government in connection with their regulatory or enforcement responsibilities.
- 4. By SEC personnel for purposes of investigating possible violations of, or to conduct investigations authorized by, the Federal securities laws.
- 5. In any proceeding where the Federal securities laws are in issue or in which the Commission, or past or present members of its staff, is a party or otherwise involved in an official capacity.
- 6. In connection with proceedings by the Commission pursuant to Rule 102(e) of its Rules of Practice, 17 CFR 201.102(e).

- 7. To a bar association, state accountancy board, or other Federal, state, local, or foreign licensing or oversight authority; or professional association or self-regulatory authority to the extent that it performs similar functions (including the Public Company Accounting Oversight Board) for investigations or possible disciplinary action.
- 8. To a Federal, state, local, tribal, foreign, or international agency, if necessary to obtain information relevant to the SEC's decision concerning the hiring or retention of an employee; the issuance of a security clearance; the letting of a contract; or the issuance of a license, grant, or other benefit.
- 9. To a Federal, state, local, tribal, foreign, or international agency in response to its request for information concerning the hiring or retention of an employee; the issuance of a security clearance; the reporting of an investigation of an employee; the letting of a contract; or the issuance of a license, grant, or other benefit by the requesting agency, to the extent that the information is relevant and necessary to the requesting agency's decision on the matter.
- 10. To produce summary descriptive statistics and analytical studies, as a data source for management information, in support of the function for which the records are collected and maintained or for related personnel management functions or manpower studies; may also be used to respond to general requests for statistical information (without personal identification of individuals) under the Freedom of Information Act.
- 11. To any trustee, receiver, master, special counsel, or other individual or entity that is appointed by a court of competent jurisdiction, or as a result of an agreement between the parties in connection with litigation or administrative proceedings involving allegations of violations of the Federal securities laws (as defined in section 3(a)(47) of the Securities Exchange Act of 1934, 15 U.S.C. 78c(a)(47)) or pursuant to the Commission's Rules of Practice, 17 CFR 201.100 through 900 or the Commission's Rules of Fair Fund and Disgorgement Plans, 17 CFR 201.1100 through 1106, or otherwise, where such trustee, receiver, master, special counsel, or other individual or entity is specifically designated to perform particular functions with respect to, or as a result of, the pending action or proceeding or in connection with the administration and enforcement by the Commission of the Federal securities laws or the Commission's Rules of Practice or the Rules of Fair Fund and Disgorgement Plans.
- 12. To any persons during the course of any inquiry, examination, or investigation conducted by the SEC's staff, or in connection with civil litigation, if the staff has reason to believe that the person to whom the record is disclosed may have further information about the matters related therein, and those matters appeared to be relevant at the time to the subject matter of the inquiry.
- 13. To interns, grantees, experts, contractors, and others who have been engaged by the Commission to assist in the performance of a service related to this system of records and who need access to the records for the purpose of assisting the Commission in the efficient administration of its programs, including by performing clerical, stenographic, or data analysis functions, or by reproduction of records by electronic or other means. Recipients of these records shall be required to comply with the requirements of the Privacy Act of 1974, as amended, 5 U.S.C.
- 14. In reports published by the Commission pursuant to authority granted in the Federal securities laws (as such term is defined in section 3(a)(47) of the Securities Exchange Act of 1934, 15 U.S.C. 78c(a)(47)), which authority shall include, but not be limited to, section 21(a) of the Securities Exchange Act of 1934, 15 U.S.C. 78u(a)).
- 15. To members of advisory committees that are created by the Commission or by Congress to render advice and recommendations to the Commission or to Congress, to be used solely in connection with their official designated functions.
- 16. To any person who is or has agreed to be subject to the Commission's Rules of Conduct, 17 CFR 200.735-1 through 200.735-18, and who assists in the investigation by the Commission of possible violations of the Federal securities laws (as such term is defined in section 3(a)(47) of the Securities Exchange Act of 1934, 15 U.S.C. 78c(a)(47)), in the preparation or conduct of enforcement actions brought by the Commission for such violations, or otherwise in connection with the Commission's enforcement or regulatory functions under the Federal securities laws.
- 17. To a Congressional office from the record of an individual in response to an inquiry from the Congressional office made at the request of that individual.
- 18. To members of Congress, the press, and the public in response to inquiries relating to particular Registrants and their activities, and other matters under the Commission's jurisdiction.
- 19. To prepare and publish information relating to violations of the Federal securities laws as provided in 15 U.S.C. 78c(a)(47)), as amended.
- 20. To respond to subpoenas in any litigation or other proceeding.
- 21. To a trustee in bankruptcy.
- 22. To any governmental agency, governmental or private collection agent, consumer reporting agency or commercial reporting agency, governmental or private employer of a debtor, or any other person, for collection,

including collection by administrative offset, Federal salary offset, tax refund offset, or administrative wage garnishment, of amounts owed as a result of Commission civil or administrative proceedings.

23. To another Federal agency or Federal entity, when the SEC determines that information from this system of records is reasonably necessary to assist the recipient agency or entity in (1) responding to a suspected or confirmed breach or (2) preventing, minimizing, or remedying the risk of harm to individuals, the recipient agency or entity (including its information systems, programs, and operations), the Federal Government, or national security, resulting from a suspected or confirmed breach.

* * * * *

Small Business Owners: The SEC always welcomes comments on how it can better assist small businesses. If you would like more information, or have questions or comments about federal securities regulations as they affect small businesses, please contact the Office of Small Business Policy, in the SEC's Division of Corporation Finance, at 202-551-3460. If you would prefer to comment to someone outside of the SEC, you can contact the Small Business Regulatory Enforcement Ombudsman at http://www.sba.gov/ombudsman or toll free at 888-REG-FAIR. The Ombudsman's office receives comments from small businesses and annually evaluates federal agency enforcement activities for their responsiveness to the special needs of small business.



UNITED STATES SECURITIES AND EXCHANGE COMMISSION

100 PEARL STREET, SUITE 20-100 NEW YORK, NY 10004-2616

DIVISION OF ENFORCEMENT

February 26, 2024

VIA UPS
The Linux Foundation
c/o Andy Updegrove
PMB 57274
San Francisco, California
94104-5401 US

Re: <u>C-08950</u>

Dear Mr. Updegrove:

The enclosed subpoena has been issued pursuant to a formal order entered by the United States Securities and Exchange Commission. Pursuant to Rule 8 of the United States Securities and Exchange Commission's Rules Relating to Investigations, 17 C.F.R. § 203.8, I have enclosed a subpoena for documents issued to the Linux Foundation in connection with the above-referenced investigation.

This is a federal civil law enforcement investigation and you must produce all documents described in the attached subpoena. The enclosed subpoena requires the Linux Foundation to produce documents to the SEC by March 11, 2024 to:

ENF-CPU U.S. Securities and Exchange Commission 14420 Albemarle Point Place, Suite 102 Chantilly, VA 20151-1750

For smaller electronic productions under 10MB in size, the materials may be emailed to the following email address: <u>ENF-CPU@sec.gov</u>.

Please also provide a duplicate copy of any document production cover letters to me at (b)(6); (b)(7)(C) at (b)(6)

Please carefully read the subpoena attachment, which contains, among other things, important instructions related to the manner of producing documents. In particular, if the Linux Foundation prefers to send us copies of original documents, the staff requests that you scan

and produce hard copy documents, as well as electronic documents, in an electronic format consistent with the SEC Data Delivery Standards attached hereto. All electronic documents responsive to the subpoena, including all metadata, should also be produced in their native software format. If you have any questions concerning the production of documents in an electronic format, please contact me as soon as possible and in any event before producing documents. For security reasons, we strongly encourage the encryption of sensitive documents before production.

When producing the records, please consecutively number and mark each document produced with a symbol that identifies it as being produced by the Linux Foundation and provide an index which briefly identifies the documents produced.

In your cover letter(s) accompanying the production of responsive documents, please enclose a list briefly describing each item you send. The list should identify the paragraph(s) in the subpoena attachment to which each item responds. Please also state in the cover letter(s) whether you believe the Linux Foundation has met the obligations of the subpoena by searching carefully and thoroughly for everything called for by the subpoena and sending it all to us.

A copy of the subpoena should be included with the documents that are produced. Correspondence should reference case number and requesting SEC staff member.

Passwords for documents, files, compressed archives, and encrypted media should be provided separately either via email addressed to ENF-CPU@scc.gov, or in a separate cover letter mailed separately from the data. Password correspondence should reference case number and requesting SEC staff member.

In addition, for any documents that qualify as records of regularly conducted activities under Federal Rule of Evidence 902(11), please have the appropriate representative(s) of the Linux Foundation complete a business records certification (a sample of which is enclosed) and return it with the document production. Execution of this certification may allow the Commission to introduce the documents provided by the Linux Foundation in any subsequent judicial proceeding, without requiring the testimony of a records custodian.

Enclosed is a copy of the Commission's Form 1662, entitled "Supplemental Information for Persons Requested to Supply Information Voluntarily or Directed to Supply Information Pursuant to a Commission Subpoena." This form explains how we may use the information which the Linux Foundation provides to the Commission and has other important information. Please provide a copy of this form to the Linux Foundation.

This investigation is a non-public, fact-finding inquiry. We are trying to determine whether there have been any violations of the federal securities laws. The investigation does not mean that we have concluded that anyone has violated the law. Also, the investigation does not mean that we have a negative opinion of any person, entity, or security.

If you have any questions or would like to discuss this matter, you may contact me at

Sincerely,	
(b)(6); (b)(7)(C)	
Division of Enforcement	
(b)(6); (b)(7)(C)	

Subpoena and Attachment Enclosures:

Business Records Certification SEC Data Delivery Standards SEC Form 1662



SUBPOENA

UNITED STATES OF AMERICA SECURITIES AND EXCHANGE COMMISSION

C-08950

To: The Linux Foundation c/o Andy Updegrove 548 Market St PMB 57274 San Francisco, California 94104-5401 US

YOU MUST PRODUCE everything specified in the Attachment to this subpoena to officers of the Securities and Exchange Commission, at the place, date and time specified below:

ENF-CPU, U.S. Securities and Exchange Commission, 14420 Albemarle Point Place, Suite 102 Chantilly, VA 20151-1750, no later than March 11, 2024.

YOU MUST TESTIFY before officers of the Securities and Exchange Commission, at the place, date and time specified below:

FEDERAL LAW REQUIRES YOU TO COMPLY WITH THIS SUBPOENA.

If you do not comply with this subpoena, the SEC may bring an action in Federal Court to enforce this subpoena. Failure to comply with a court order enforcing this subpoena may result in the court imposing a fine, imprisonment, or both.

By: (b)(6); (b)(7)(C) Date: February 26, 2024

U.S. Securities and Exchange Commission New York Regional Office 100 Pearl Street, Suite 20-100 New York, NY 10004-2616

I am an officer of the U.S. Securities and Exchange Commission authorized to issue subpoenas in this matter. The Securities and Exchange Commission has issued a formal order authorizing this investigation under Section 20(a) of the Securities Act of 1933.

NOTICE TO WITNESS: If you claim a witness fee or mileage, submit this subpoena with the claim voucher.

SUBPOENA ATTACHMENT FOR THE LINUX FOUNDATION C-08950

February 26, 2024

Definitions

As used in this subpoena, the words and phrases listed below shall have the following meanings:

- 1. "Relevant Period" means July 1, 2018 to the present.
- 2. "Hyperledger" means the entity doing business under the name the Hyperledger Foundation or the Linux Foundation including parents, subsidiaries, affiliates, predecessors, successors, officers, directors, employees, agents, general partners, limited partners, partnerships and aliases, code names, or trade or business names used by any of the foregoing.
- 3. The "Ethereum Foundation" means the entity or business doing business under the name Ethereum Foundation, including, but not limited to, ethereum.org, the Ethereum Support Program, and parents, subsidiaries, affiliates, predecessors, successors, officers, directors, employees, agents, general partners, limited partners, partnerships and aliases, owners, code names, or trade or business names used by any of the foregoing.
- 4. "The Merge" or "Ethereum 2.0" means the transition by the Ethereum blockchain of its consensus mechanism from proof-of-work to proof-of-stake.
- 5. "Beacon Chain" means the original proof-of-stake blockchain that was launched in 2020 that ran alongside the original proof-of-work Ethereum blockchain.
- 6. "Document" shall include, but is not limited to, any written, printed, or typed matter including, but not limited to all drafts and copies bearing notations or marks not found in the original, letters and correspondence, interoffice communications, slips, tickets, records, worksheets, financial records, accounting documents, bookkeeping documents, memoranda, reports, manuals, telephone logs, facsimiles, messages of any type, telephone messages, text messages, voice mails, tape recordings, notices, instructions, minutes, summaries, notes of meetings, file folder markings, and any other organizational indicia, purchase orders, information recorded by photographic process, including microfilm and microfiche, computer printouts, spreadsheets, and other electronically stored information, including writings, drawings, graphs, charts, photographs, sound recordings, images, and other data or data compilations that are stored in any medium from which information can be retrieved, obtained, manipulated, or translated.
- "Communication" means any correspondence, contact, discussion, e-mail, instant 7. message, or any other kind of oral or written exchange or transmission of information (in the form of facts, ideas, inquiries, or otherwise), including but not limited to those made on Social Media Services, and any response thereto between two or more Persons or

entities, including, without limitation, all telephone conversations, face-to-face meetings or conversations, internal or external discussions, or exchanges of a Document or Documents.

- 8. "Concerning" means directly or indirectly, in whole or in part, describing, constituting, evidencing, recording, evaluating, substantiating, concerning, referring to, alluding to, in connection with, commenting on, relating to, regarding, discussing, showing, analyzing or reflecting.
- 9. "Agreement" means any actual or contemplated (i) written or oral Agreement; (ii) term or provision of such Agreement; or (iii) amendment of any nature or termination of such Agreement. A request for any Agreement among or between specified parties includes a request for all Documents Concerning (i) any actual or contemplated Agreement among or between such parties, whether or not such Agreement included any other Person; (ii) the drafting or negotiation of any such Agreement; (iii) any actual or contemplated demand, request or application for any such Agreement, and any response thereto; and (iv) any actual or contemplated objection or refusal to enter into any such Agreement, and any response thereto.
- 10. "Bank or Financial Account" means the domestic or foreign bank, brokerage, or financial accounts held, controlled, or used by you or by other people on your behalf. This includes, but is not limited to, accounts that contain currency, securities, or crypto assets.
- 11. "Person" means a natural person, firm, association, organization, partnership, business, trust, corporation, bank or any other private or public entity.
- The term "you" and "your" means the Person to whom or entity to which this subpoena 12. was issued.
- To the extent necessary to bring within the scope of this this subpoena any information or 13. Documents that might otherwise be construed to be outside its scope:
 - the word "or" means "and/or"; a.
 - the word "and" means "and/or"; b.
 - the functional words "each," "every" "any" and "all" shall each be deemed to c. include each of the other functional words;
 - the masculine gender includes the female gender and the female gender includes d. the masculine gender; and
 - the singular includes the plural and the plural includes the singular. e.

Instructions

1. Unless otherwise specified, this subpoena calls for production of the original Documents and all copies and drafts of same. Documents responsive to this subpoena may be in electronic or paper form. Electronic Documents such as email should be produced in accordance with the attached Document entitled SEC Data Delivery Standards. All

responsive electronic Documents, including all metadata, should also be produced in their native software format.

- 2. For Documents in paper format, you may send the originals, or, if you prefer, you may send copies of the originals. The Commission cannot reimburse you for the copying costs. If you are sending copies, the staff requests that you scan (rather than photocopy) hard copy Documents and produce them in an electronic format consistent with the SEC Data Delivery Standards. Alternatively, you may send us photocopies of the Documents in paper format. If you choose to send copies, you <u>must</u> secure and retain the originals and store them in a safe place. The staff may later request or require that you produce the originals.
- 3. Whether you scan or photocopy Documents, the copies must be identical to the originals, including even faint marks or print. Also, please note that if copies of a Document differ in any way, they are considered separate Documents and you must send each one. For example, if you have two copies of the same letter, but only one of them has handwritten notes on it, you must send both the clean copy and the one with notes.
- 4. In producing a photocopy of an original Document that contains post-it(s), notation flag(s), or other removable markings or attachments which may conceal all or a portion of the markings contained in the original Document, photocopies of the original Document both with and without the relevant post-it(s), notation flag(s), or removable markings or attachments should be produced.
- 5. Documents should be produced as they are kept in the ordinary course of business or be organized and labeled to correspond with the categories in this request. In that regard, Documents should be produced in a unitized manner, i.e., delineated with staples or paper clips to identify the Document boundaries.
- 6. Documents should be labeled with sequential numbering (bates-stamped).
- 7. The scope of any given request should not be limited or narrowed on the basis that it calls for Documents that are responsive to another request.
- 8. This subpoena covers all Documents in or subject to your possession, custody or control, including all Documents that are not in your immediate possession but that you have the effective ability to obtain, that are responsive, in whole or in part, to any of the individual requests set forth below. If, for any reason—including a claim of attorney-client privilege—you do not produce something called for by the request, you should submit a list of what you are not producing. The list should describe each item separately, noting:
 - a. its author(s);
 - b. its date;
 - c. its subject matter;
 - d. the name of the Person who has the item now, or the last Person known to have it;
 - e. the names of everyone who ever had the item or a copy of it, and the names of everyone who was told the item's contents;

- f. the basis upon which you are not producing the responsive Document;
- g. the specific request in the subpoena to which the Document relates;
- h. the attorney(s) and the client(s) involved; and
- i. in the case of the work product doctrine, the litigation for which the Document was prepared in anticipation.
- 9. If Documents responsive to this subpoena no longer exist because they have been lost, discarded, or otherwise destroyed, you should identify such Documents and give the date on which they were lost, discarded, or destroyed.

Documents to be Immediately Preserved and Produced

- 1. All Agreements between Hyperledger and the Ethereum Foundation;
- 2. All Documents and Communications Concerning any grant or other source of funding received from the Ethereum Foundation;
- 3. All Documents and Communications Concerning any work conducted by Hyperledger pursuant to any grant or other source of funding received from the Ethereum Foundation;
- 4. Documents sufficient to identify Hyperledger's crypto asset wallet addresses or Bank or Financial Accounts, located within or outside the U.S., that received any grant or other source of funding from the Ethereum Foundation, as well as the amount of crypto assets or fiat received;
- 5. Documents sufficient to identify all meetings with the Ethereum Foundation, including any Documents related to the meetings identified;
- 6. All Communications with the Ethereum Foundation, including, but not limited to, Communications with board members, consultants, officers, directors, employees, developers, coders, and others performing work on behalf of these entities, related to The Merge or the Beacon Chain.

DECLARATION OF [Insert Name] CERTIFYING RECORDS OF REGULARLY CONDUCTED BUSINESS ACTIVITY

I, the undersigned, [insert name], pursuant to 28 U.S.C. § 1746, declare that:

- 1. I am employed by the Linux Foundation as [insert position] and by reason of my position am authorized and qualified to make this declaration. [if possible supply additional information as to how person is qualified to make declaration, e.g., I am custodian of records, I am familiar with the company's recordkeeping practices or systems, etc.]
- 2. I further certify that the documents [attached hereto or submitted herewith] and stamped [insert bates range] are true copies of records that were:
 - (a) made at or near the time of the occurrence of the matters set forth therein, by, or from information transmitted by, a person with knowledge of those matters;
 - (b) kept in the course of regularly conducted business activity; and
 - (c) made by the regularly conducted business activity as a regular practice.

I declare under penalty of perjury that the foregoing is true and correct. Executed on [date].

[Name]	



U.S. Securities and Exchange Commission

Data Delivery Standards

This document describes the technical requirements for paper and electronic document productions to the U.S. Securities and Exchange Commission (SEC). **Any questions or proposed file formats other than those described below must be discussed with the legal and technical staff of the SEC Division of Enforcement prior to submission. **

Genera	l Instructions	
Deliver	ry Formats	. 2
I. I	maged Productions	3
	maged Productions	3
	2. Image Cross-Reference File	
	3. Data File	
	4. Text	
	5. Linked Native Files	
	Native File Productions without Load Files	
11.	Native File Productions without Load Files	. 4
III.	Adobe PDF File Productions	. 4
	Audio Files	
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	Electronic Trade and Bank Records	
	. Electronic Phone Records	
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IX.	Mobile Device Data	5

General Instructions

The current mailing address for all physical productions sent to the SEC is:

ENF-CPU (U.S. Securities & Exchange Commission), 14420 Albemarle Point Place, Suite 102, Chantilly, VA 20151-1750

Electronic files must be produced in their native format, i.e. the format in which they are ordinarily used and maintained during the normal course of business. For example, an MS Excel file must be produced as an MS Excel file rather than an image of a spreadsheet. (Note: An Adobe PDF file is not considered a native file unless the document was initially created as a PDF.)

In the event produced files require the use of proprietary software not commonly found in the workplace, the SEC will explore other format options with the producing party.

The proposed use of file de-duplication methodologies or computer-assisted review or technology-assisted review (TAR) during the processing of documents must be discussed with and approved by the legal and technical staff of the Division of Enforcement (ENF). If your production will be de-duplicated it is vital that you 1) preserve any unique metadata associated with the duplicate files, for example, custodian name and file location and, 2) make that unique metadata part of your production to the SEC.

General requirements for ALL document productions are:

- 1. A cover letter must be included with each production and should include the following information:
 - Case number, case name and requesting SEC staff member name
 - b. A list of each piece of media included in the production with its unique production volume number
 - c. A list of custodians, identifying the Bates range for each custodian
 - d. A list of redacted documents and the redaction reason
 - c. The time zone in which the emails were standardized during conversion
 - f. Whether the production contains native files produced from Mac operating system environments
- Data can be produced on CD, DVD, thumb drive, etc., using the media requiring the least number of deliverables and labeled with the following:
 - a. Case number
 - b. Production date
 - c. Producing party
 - d. Bates range (if applicable)
- All submissions must be organized by custodian unless otherwise instructed.
- All document family groups, i.e. email attachments, embedded files, etc., should be produced together and children files should follow parent files sequentially in the Bates numbering.
- All load-ready collections should include only one data load file and one image pointer file.
- All load-ready text must be produced as separate document-level text files.
- All load-ready collections should account for custodians in the custodian field.
- 8. All load-ready collections must provide the extracted contents of any container files to ensure all relevant files are produced as separate records.
- Audio files should be separated from data files if both are included in the production.
- 10. Only alphanumeric characters and the underscore character are permitted in file names and folder names. Special characters are not permitted.
- 11. All electronic productions submitted on media must be produced using industry standard self-extracting encryption software.
- 12. The SEC uses 7zip to access compressed files. Note that the SEC cannot accept files that use AES-256 Jpeg or pkAES-256-Cert Deflate compression methods, even if the files are created with 7zip. If you have any questions or need additional information, please reach out to the requesting SEC staff member.
- 13. Electronic productions of 30 GB or less are strongly encouraged to be submitted via Secure File Transfer. All Secure File Transfers should be sent to the SEC Centralized Production Unit (ENF-CPU@sec.gov) with a CC to the requesting SEC staff member. If you do not have your own Secure File Transfer application, you may reach out to the requesting SEC staff member for a link to the SEC system in order to upload your production. If using the SEC Secure File Transfer system, you will NOT be able to CC individuals outside the SEC on your upload transmission. Note that the SEC cannot accept productions made using file sharing sites such as Google Drive or Microsoft Office 365.
- 14. Productions containing BSA or SAR material must be encrypted. Secure File Transfer applications may be used to produce BSA or SAR material. BSA or SAR material should be segregated and appropriately marked as BSA or SAR, or should be produced separately from other case related records.
- 15. Passwords for electronic documents, files, compressed archives and encrypted media must be provided separately either via email or in a cover letter apart from the media.
- 16. All electronic productions should be produced free of computer viruses.
- 17. Before producing forensically collected images, parties should reach out to the requesting SEC staff member in order to discuss appropriate handling.
- 18. Before producing unique data sets (large sets of relational data, website reconstruction, chat room data, etc.), parties should reach out to the requesting SEC staff member in order to discuss an appropriate production format.
- Additional technical descriptions can be found in the addendum to this document.

Please note that productions sent to the SEC via United States Postal Service are subject to Mail Irradiation, and as a result electronic productions may be damaged.

Delivery Formats

Imaged Productions

The SEC prefers that all scanned paper and electronic file collections be produced in a structured format including industry standard load files, Bates numbered image files, native files and searchable document-level text files. Bates numbers should not contain spaces. Hyphens (-) and underscores (-) are acceptable.

1. Images

- Black and white images must be 300 DPI Group IV single-page TIFF files
- b. Color images must be produced in JPEG format
- File names cannot contain embedded spaces or special characters (including the comma)
- d. Folder names cannot contain embedded spaces or special characters (including the comma)
- e. All image files must have a unique file name, i.e. Bates number
- f. Images must be endorsed with sequential Bates numbers in the lower right corner of each image
- The number of image files per folder should not exceed 2,000 files g.
- h. Excel spreadsheets should have a placeholder image named by the Bates number of the file
- AUTOCAD/photograph files should be produced as a single page JPEG file

2. Image Cross-Reference File

The image cross-reference file (LOG or .OPT) links the images to the database records. It should be a comma-delimited file consisting of seven fields per line with a line in the cross-reference file for every image in the database with the following format:

ImageID, VolumeLabel, ImageFilePath, DocumentBreak, FolderBreak, BoxBreak, PageCount

3. Data File

The data file (.DAT) contains all of the fielded information that will be loaded into the database.

- The first line of the .DAT file must be a header row identifying the field names
- The .DAT file must use the following *Concordance*® default delimiters:

Comma ¶ ASCII character (020)

Quote b ASCII character (254)

- c. If the .DAT file is produced in Unicode format it must contain the byte order marker
- d. Date fields should be provided in the format: mm/dd/yyyy
- Date and time fields must be two separate fields
- The time zone must be included in all time fields f.
- If the production includes imaged emails and attachments, the attachment fields must be included to preserve the parent/child relationship between an email and its attachments
- An OCRPATH field must be included to provide the file path and name of the extracted text file on the produced storage media. The text file must be named after the FIRSTBATES. Do not include the text in the .DAT file.
- For productions with native files, a LINK field must be included to provide the file path and name of the native file on the produced storage media. The native file must be named after the FIRSTBATES.
- BEGATTACH and ENDATTACH fields must be two separate fields
- A complete list of metadata fields is available in Addendum A to this document

4. Text

Text must be produced as separate document-level text files, not as fields within the .DAT file. The text files must be named per the FIRSTBATES/Image Key and the full path to the text file (OCRPATII) should be included in the .DAT file. Text files may be in either ANSI or Unicode format, however, ALL text files must be in the same format within the same production. Note that productions containing text with foreign characters must produce text files in Unicode format to preserve the foreign characters. Text files must be in a separate folder, and the number of text files per folder should not exceed 2,000 files. There should be no special characters (including commas) in the folder names. For redacted documents, provide the full text for the redacted version.

Linked Native Files

Copies of original email and native file documents/attachments must be included for all electronic productions.

- a. Native file documents must be named per the FIRSTBATES number
- b. The full path of the native file must be provided in the .DAT file for the LINK field
- The number of native files per folder should not exceed 2,000 files

II. Native File Production without Load Files

With prior approval, native files may be produced without load files. Native file productions should not be Bates numbered. Native files must be produced as they are maintained in the normal course of business and organized by custodian-named file folders. Native email files (.PST or .MBOX) must be separated by custodian.

III. Adobe PDF File Production

With prior approval, Adobe PDF files may be produced in native file format.

- 1. All PDFs must be unitized at the document level, i.e. each PDF must represent a discrete document.
- 2. PDF files should be produced in separate folders named by the custodian. The folders should not contain any special characters (including commas).
- 3. All PDF files must contain embedded text that includes all discernible words within the document, not selected text or image only. This requires all layers of the PDF to be flattened first.
- 4. If PDF files are Bates endorsed, the PDF files must be named by the Bates range.

IV. Audio Files

Audio files from telephone recording systems must be produced in a format that is playable using Microsoft Windows Media PlayerTM. Additionally, the call information (metadata) related to each audio recording MUST be provided. The metadata file must be produced in a delimited text format. Field names must be included in the first row of the text file. The metadata must include, at a minimum, the following fields:

1) Caller Name: Caller's name or account/identification number

2) Originating Number: Caller's phone number3) Called Party Name: Called party's name

4) Terminating Number: Called party's phone number

5) Date: Date of call
6) Time: Time of call

7) Filename: Filename of audio file

V. Video Files

Video files must be produced in a format that is playable using Microsoft Windows Media PlayerTM.

VI. Electronic Trade and Bank Records

When producing electronic trade records, bank records, or financial statements, provide the files in one of the following formats:

- 1. MS Excel spreadsheet with header information detailing the field structure. If any special codes exist in the dataset, a separate document must be provided that details all such codes. If details of the field structure do not fit in the header, a separate document must be provided that includes such details.
- 2. Delimited text file with header information detailing the field structure. The preferred delimiter is a vertical bar "|". If any special codes exist in the dataset, a separate document must be provided that details all such codes. If details of the field structure do not fit in the header, a separate document must be provided that includes such details.

VII. Electronic Phone Records

When producing an MS Excel spreadsheet for electronic phone records, provide the files in the following format:

- 1. MS Excel spreadsheet with header information detailing the field structure. If any special codes exist in the dataset, a separate document must be provided that details all such codes. If details of the field structure do not fit in the header, a separate document must be provided that includes such details. Data must be formatted in its native format (i.e. dates in a date format, numbers in an appropriate numerical format, and numbers with leading zeroes as text).
 - a. The metadata that must be included is outlined in **Addendum B** of this document. Each field of data must be loaded into a separate column. For example, Date and Start_Time must be produced in separate columns and not combined into a single column containing both pieces of information. Any fields of data that are provided in addition to those listed in **Addendum B** must also be loaded into separate columns.

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Data Delivery Standards

VIII. Audit Workpapers

The SEC prefers for workpapers to be produced in two formats: (1) With Bates numbers in accordance with the SEC Data Delivery Standards; and (2) in native format via laptop computer, web-based viewing platform, or otherwise, allowing for viewing in the same format and organization as the firm's audit team. Prior to production of workpapers via laptop computer or web-based viewing platform, audit firms should contact the requesting SEC staff member for additional information and written agreements addressing use of software, access, and viewing protocols.

IX. Mobile Device Data

Before producing any mobile device data (including but not limited to text messages and application data) parties should reach out to the requesting SEC staff member in order to discuss the appropriate production format. Productions containing chat data from applications must be identified at the time of production and the following information must be provided to the requesting SEC staff member and the SEC Centralized Production Unit: chat application, chat data format, and how the length of a chat is determined (i.e. set duration of time, number of minutes without messages, etc.)

ADDENDUM A

The metadata of electronic document collections should be extracted and provided in a .DAT file using the field definition and formatting described below:

Field Name	Sample Data	Description
FIRSTBATES	EDC0000001	First Bates number of native file document/email
LASTBATES	EDC0000001	Last Bates number of native file document/email
		**The LASTBATES field should be populated
		for single page documents/emails.
ATTACHRANGE	EDC0000001 - EDC0000015	Bates number of the first page of the parent
		document to the Bates number of the last page of the
		last attachment "child" document
BEGATTACH	EDC0000001	First Bates number of attachment range
ENDATTACH	EDC0000015	Last Bates number of attachment range
PARENT_BATES	EDC0000001	First Bates number of parent document/Email **This PARENT_BATES field should be populated
		in each record representing an attachment "child"
		document
CHILD BATES	EDC0000002; EDC0000014	First Bates number of "child" attachment(s); can be
		more than one Bates number listed depending on the
		number of attachments
		**The CHILD BATES field should be populated in
		each record representing a "parent" document
CUSTODIAN	Smith, John	Email: Mailbox where the email resided
		Native: Name of the individual or department from
		whose files the document originated
FROM	John Smith	Email: Sender
		Native: Author(s) of document
		**semi-colon should be used to separate multiple
		entries
TO	Coffman, Janice; LeeW	Recipient(s)
	[mailto:LecW@MSN.com]	**semi-colon should be used to separate multiple
		entries
CC	Frank Thompson [mailto:	Carbon copy recipient(s)
	frank_Thompson@cdt.com]	**semi-colon should be used to separate multiple
D.C.C.		entries
BCC	John Cain	Blind carbon copy recipient(s)
		**semi-colon should be used to separate multiple
SUBJECT	Board Meeting Minutes	entries Email: Subject line of the email
SUBJECT	Board Meeting Minutes	Native: Title of document (if available)
FILE_NAME	BoardMeetingMinutes.docx	Native: Name of the original native file, including
TILL_WANG	Board.viceting.vindies.docx	extension
DATE SENT	10/12/2010	Email: Date the email was sent
DATE SERVE	10/12/2010	Native: (empty)
TIME SENT/TIME	07:05 PM GMT	Email: Time the email was sent/ Time zone in which
ZONE		the emails were standardized during conversion.
		Native: (empty)
		**This data must be a separate field and cannot be
		combined with the DATE_SENT field
TIME_ZONE	GMT	The time zone in which the emails were standardized
		during conversion.
		Email: Time zone
		Native: (empty)
	·	

LINK	D:\001\EDC0000001.msg	Hyperlink to the email or native file document **The linked file must be named per the FIRSTBATES number
MIME_TYPE	application/msword	The content type of an email or native file document as identified/extracted from the header
FILE_EXTEN	MSG	The file type extension representing the email or native file document; will vary depending on the format
AUTHOR	John Smith	Email: (empty) Native: Author of the document
LAST_AUTHOR	Jane Doe	Email: (empty) Native: Last Author of the document
DATE_CREATED	10/10/2010	Email: (empty) Native: Date the document was created
TIME_CREATED/T IME_ZONE	10:25 AM GMT	Email: (empty) Native: Time the document was created including time zone **This data must be a separate field and cannot be combined with the DATE_CREATED field
DATE_MOD	10/12/2010	Email: (empty) Native: Date the document was last modified
TIME_MOD/TIME_ ZONE	07:00 PM GMT	Email: (empty) Native: Time the document was last modified including the time zone **This data must be a separate field and cannot be combined with the DATE_MOD field
DATE_ACCESSD	10/12/2010	Email: (empty) Native: Date the document was last accessed
TIME_ACCESSD/T IME_ZONE	07:00 PM GMT	Email: (empty) Native: Time the document was last accessed including the time zone **This data must be a separate field and cannot be combined with the DATE_ACCESSD field
PRINTED_DATE	10/12/2010	Email: (empty) Native: Date the document was last printed
FILE_SIZE	5,952	Size of native file document/email in KB
PGCOUNT	1	Number of pages in native file document/email
PATH	J:\Shared\SmithJ\October Agenda.doc	Email: (empty) Native: Path where native file document was stored including original file name.
INTFILEPATH	Personal Folders\Deleted Items\Board Meeting Minutes.msg	Email: original location of email including original file name. Native: (empty)
INTMSGID	<000805c2c71bS75977050Scb 8306d1@MSN>	Email: Unique Message ID Native: (empty)

Case 1:24-cv-01858-ACR Document 26-1 Filed 02/04/25 Page 145 of 933 Data Delivery Standards

HEADER	Return-Path: <example_from@dc.edu> X-SpamCatcher-Score:1[X] Received:from[136.167.40.119] (HELO dc.edu) by fe3.dc.edu (CommuniGate Pro SMTP4.1.8) with ESMTP-TLS id 61258719 for example_to@mail.dc.edu; Mon, 23 Aug 2004 11:40:10 - 0400 Message-ID: <<4129F3CA.2020509@dc.edu> Date: Mon, 23 Aug 2005 11:40:36 -400 From: Taylor Evans <example_from@dc.edu> User-Agent:Mozilla/5.0 (Windows;U; Windows NT 5.1: en-US;rv:1.0.1) Gecko/20020823 Netscape/7.0 X-Accept-Language:en-us,en MIME-Version:1.0 To: Jon Smith <example_to@mail.dc.edu> Subject:Business Development Meeting Content-Type: text/plain;charset=us-ascii; format=flowed Content-Transfer-Encoding:7bit</example_to@mail.dc.edu></example_from@dc.edu></example_from@dc.edu>	
SHA256	AD6128C5CA40164AF71A1E FC800E12D2F195CE07BB5F8 C813B0888A2DDE6A06F	SHA-256 hash value of the document.
OCRPATH	TEXT/001/EDC0000001.txt	Path to extracted text of the native file

Sample Image Cross-Reference File:

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IMG0000002,,E:\001\IMG0000002.TIF,,,,
IMG0000003,,E:\001\IMG0000003.TIF,,,,
IMG0000004,,E:\001\IMG0000005.TIF,Y,,,
IMG0000005,,E:\001\IMG0000005.TIF,Y,,,
IMG0000006,,E:\001\IMG0000006.TIF,,,,,

ADDENDUM B

For Electronic Phone Records, include the following fields in separate columns:

For Calls:

- 1) Account Number
- 2) Connection Date Date the call was received or made
- 3) Connection Time Time call was received or made
- 4) Seizure Time Time it took for the call to be placed in seconds
- 5) Originating Number Phone that placed the call
- 6) Terminating Number Phone that received the call
- 7) Elapsed Time The length of time the call lasted, preferably in seconds
- 8) End Time The time the call ended
- 9) Number Dialed Actual number dialed
- 10) IMEI Originating Unique id to phone used to make call
- 11) IMEI Terminating-Unique id to phone used to receive call
- 12) IMSI Originating Unique id to phone used to make call
- 13) IMSI Terminating- Unique id to phone used to receive call
- 14) Call Codes Identify call direction or other routing information
- 15) Time Zone Time Zone in which the call was received or placed, if applicable

For Text messages:

- 1) Account Number
- 2) Connection Date Date the text was received or made
- 3) Connection Time Time text was received or made
- 4) Originating Number Who placed the text
- 5) Terminating Number Who received the text
- 6) IMEI Originating Unique id to phone used to make text
- 7) IMEI Terminating—Unique id to phone used to receive text
- 8) IMSI Originating Unique id to phone used to make text
- 9) IMSI Terminating- Unique id to phone used to receive text
- 10) Text Code Identify text direction, or other text routing information
- 11) Text Type Code Type of text message (sent SMS, MMS, or other)
- 12) Time Zone Time Zone in which the call was received or placed, if applicable

For Mobile Data Usage:

- 1) Account Number
- Connection Date Date the data was received or made
- 3) Connection Time Time data was received or made
- 4) Originating number Number that used data
- 5) IMEI Originating Unique id of phone that used data
- 6) IMSI Originating Unique id of phone that used data
- 7) Data or Data codes Identify data direction, or other data routing information
- 8) Time Zone Time Zone in which the call was received or placed, if applicable

SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549

Supplemental Information for Persons Requested to Supply Information Voluntarily or Directed to Supply Information Pursuant to a Commission Subpoena

A. False Statements and Documents

Section 1001 of Title 18 of the United States Code provides that fines and terms of imprisonment may be imposed upon:

[W]hoever, in any matter within the jurisdiction of the executive, legislative, or judicial branch of the Government of the United States, knowingly and willfully--

- (1) falsifies, conceals, or covers up by any trick, scheme, or device a material fact;
- (2) makes any materially false, fictitious, or fraudulent statement or representation; or
- (3) makes or uses any false writing or document knowing the same to contain any materially false, fictitious, or fraudulent statement or entry.

Section 1519 of Title 18 of the United States Code provides that fines and terms of imprisonment may be imposed upon:

Whoever knowingly alters, destroys, mutilates, conceals, covers up, falsifies, or makes a false entry in any record, document, or tangible object with the intent to impede, obstruct, or influence the investigation or proper administration of any matter within the jurisdiction of any department or agency of the United States . . ., or in relation to or contemplation of any such matter.

B. Testimony

If your testimony is taken, you should be aware of the following:

- 1. Record. Your testimony will be transcribed by a reporter. If you desire to go off the record, please indicate this to the Commission employee taking your testimony, who will determine whether to grant your request. The reporter will not go off the record at your, or your counsel's, direction.
- 2. Counsel. You have the right to be accompanied, represented and advised by counsel of your choice. Your counsel may advise you before, during and after your testimony; question you briefly at the conclusion of your testimony to clarify any of the answers you give during testimony; and make summary notes during your testimony solely for your use. If you are accompanied by counsel, you may consult privately.

If you are not accompanied by counsel, please advise the Commission employee taking your testimony if, during the testimony, you desire to be accompanied, represented and advised by counsel. Your testimony will be adjourned once to afford you the opportunity to arrange to be so accompanied, represented or advised.

You may be represented by counsel who also represents other persons involved in the Commission's investigation. This multiple representation, however, presents a potential conflict of interest if one client's interests are or may be adverse to another's. If you are represented by counsel who also represents other persons involved in the investigation, the Commission will assume that you and counsel have discussed and resolved all issues concerning possible conflicts of interest. The choice of counsel, and the responsibility for that choice, is yours.

3. Transcript Availability. Rule 6 of the Commission's Rules Relating to Investigations, 17 CFR 203.6, states:

A person who has submitted documentary evidence or testimony in a formal investigative proceeding shall be entitled, upon written request, to procure a copy of his documentary evidence or a transcript of his testimony on payment of the appropriate fees: *Provided, however*, That in a nonpublic formal investigative proceeding the Commission may for good cause deny such request. In any event, any witness, upon proper identification, shall have the right to inspect the official transcript of the witness' own testimony.

If you wish to purchase a copy of the transcript of your testimony, the reporter will provide you with a copy of the appropriate form. Persons requested to supply information voluntarily will be allowed the rights provided by this rule.

4. *Perjury.* Section 1621 of Title 18 of the United States Code provides that fines and terms of imprisonment may be imposed upon:

Whoever-

(1) having taken an oath before a competent tribunal, officer, or person, in any case in which a law of the United States authorizes an oath to be administered, that he will testify, declare,

depose, or certify truly, or that any written testimony, declaration, deposition, or certificate by him subscribed, is true, willfully and contrary to such oath states or subscribes any material matter which he does not believe to be true; or

- (2) in any declaration, certificate, verification, or statement under penalty of perjury as permitted under section 1746 of title 28, United States Code, willfully subscribes as true any material matter which he does not believe to be true.
- 5. Fifth Amendment and Voluntary Testimony. Information you give may be used against you in any federal, state, local or foreign administrative, civil or criminal proceeding brought by the Commission or any other agency.

You may refuse, in accordance with the rights guaranteed to you by the Fifth Amendment to the Constitution of the United States, to give any information that may tend to incriminate you.

If your testimony is not pursuant to subpoena, your appearance to testify is voluntary, you need not answer any question, and you may leave whenever you wish. Your cooperation is, however, appreciated.

6. Formal Order Availability. If the Commission has issued a formal order of investigation, it will be shown to you during your testimony, at your request. If you desire a copy of the formal order, please make your request in writing.

C. Submissions and Settlements

Rule 5(c) of the Commission's Rules on Informal and Other Procedures, 17 CFR 202.5(c), states:

Persons who become involved in . . . investigations may, on their own initiative, submit a written statement to the Commission setting forth their interests and position in regard to the subject matter of the investigation. Upon request, the staff, in its discretion, may advise such persons of the general nature of the investigation, including the indicated violations as they pertain to them, and the amount of time that may be available for preparing and submitting a statement prior to the presentation of a staff recommendation to the Commission for the commencement of an administrative or injunction proceeding. Submissions by interested persons should be forwarded to the appropriate Division Director or Regional Director with a copy to the staff members conducting the investigation and should be clearly referenced to the specific investigation to which they relate. In the event a recommendation for the commencement of an enforcement proceeding is presented by the staff, any submissions by interested persons will be forwarded to the Commission in conjunction with the staff memorandum.

The staff of the Commission routinely seeks to introduce submissions made pursuant to Rule 5(c) as evidence in Commission enforcement proceedings, when the staff deems appropriate.

Rule 5(f) of the Commission's Rules on Informal and Other Procedures, 17 CFR 202.5(f), states:

In the course of the Commission's investigations, civil lawsuits, and administrative proceedings, the staff, with appropriate authorization, may discuss with persons involved the disposition of such matters by consent, by settlement, or in some other manner. It is the policy of the Commission, however, that the disposition of any such matter may not, expressly or impliedly, extend to any criminal charges that have been, or may be, brought against any such person or any recommendation with respect thereto. Accordingly, any person involved in an enforcement matter before the Commission who consents, or agrees to consent, to any judgment or order does so solely for the purpose of resolving the claims against him in that investigative, civil, or administrative matter and not for the purpose of resolving any criminal charges that have been, or might be, brought against him. This policy reflects the fact that neither the Commission nor its staff has the authority or responsibility for instituting, conducting, settling, or otherwise disposing of criminal proceedings. That authority and responsibility are vested in the Attorney General and representatives of the Department of Justice.

D. Freedom of Information Act

The Freedom of Information Act, 5 U.S.C. 552 (the "FOIA"), generally provides for disclosure of information to the public. Rule 83 of the Commission's Rules on Information and Requests, 17 CFR 200.83, provides a procedure by which a person can make a written request that information submitted to the Commission not be disclosed under the FOIA. That rule states that no determination as to the validity of such a request will be made until a request for disclosure of the information under the FOIA is received. Accordingly, no response to a request that information not be disclosed under the FOIA is necessary or will be given until a request for disclosure under the FOIA is received. If you desire an acknowledgment of receipt of your written request that information not be disclosed under the FOIA, please provide a duplicate request, together with a stamped, self-addressed envelope.

E. Authority for Solicitation of Information

Persons Directed to Supply Information Pursuant to Subpoena. The authority for requiring production of information is set forth in the subpoena. Disclosure of the information to the Commission is mandatory, subject to the valid assertion of any legal right or privilege you might have.

Persons Requested to Supply Information Voluntarily. One or more of the following provisions authorizes the Commission to solicit the information requested: Sections 19 and/or 20 of the Securities Act of 1933; Section 21 of the Securities Exchange Act of 1934; Section 321 of the Trust Indenture Act of 1939; Section 42 of the Investment Company Act of 1940; Section 209 of the Investment Advisers Act of 1940; and 17 CFR 202.5. Disclosure of the requested information to the Commission is voluntary on your part.

F. Effect of Not Supplying Information

Persons Directed to Supply Information Pursuant to Subpoena. If you fail to comply with the subpoena, the Commission may seek a court order requiring you to do so. If such an order is obtained and you thereafter fail to supply the information, you may be subject to civil and/or criminal sanctions for contempt of court. In addition, Section 21(c) of the Securities Exchange Act of 1934, Section 42(c) of the Investment Company Act of 1940, and Section 209(c) of the Investment Advisers Act of 1940 provide that fines and terms of imprisonment may be imposed upon any person who shall, without just cause, fail or refuse to attend and testify or to answer any lawful inquiry, or to produce books, papers, correspondence, memoranda, and other records in compliance with the subpoena.

Persons Requested to Supply Information Voluntarily. There are no direct sanctions and thus no direct effects for failing to provide all or any part of the requested information.

G. Principal Uses of Information

The Commission's principal purpose in soliciting the information is to gather facts in order to determine whether any person has violated, is violating, or is about to violate any provision of the federal securities laws or rules for which the Commission has enforcement authority, such as rules of securities exchanges and the rules of the Municipal Securities Rulemaking Board. Facts developed may, however, constitute violations of other laws or rules. Information provided may be used in Commission and other agency enforcement proceedings. Unless the Commission or its staff explicitly agrees to the contrary in writing, you should not assume that the Commission or its staff acquiesces in, accedes to, or concurs or agrees with, any position, condition, request, reservation of right, understanding, or any other statement that purports, or may be deemed, to be or to reflect a limitation upon the Commission's receipt, use, disposition, transfer, or retention, in accordance with applicable law, of information provided.

H. Routine Uses of Information

The Commission often makes its files available to other governmental agencies, particularly United States Attorneys and state prosecutors. There is a likelihood that information supplied by you will be made available to such agencies where appropriate. Whether or not the Commission makes its files available to other governmental agencies is, in general, a confidential matter between the Commission and such other governmental agencies.

Set forth below is a list of the routine uses which may be made of the information furnished.

- 1. To appropriate agencies, entities, and persons when (1) the SEC suspects or has confirmed that there has been a breach of the system of records, (2) the SEC has determined that as a result of the suspected or confirmed breach there is a risk of harm to individuals, the SEC (including its information systems, programs, and operations), the Federal Government, or national security; and (3) the disclosure made to such agencies, entities, and persons is reasonably necessary to assist in connection with the SEC's efforts to respond to the suspected or confirmed breach or to prevent, minimize, or remedy such harm.
- 2. To other Federal, state, local, or foreign law enforcement agencies; securities self-regulatory organizations; and foreign financial regulatory authorities to assist in or coordinate regulatory or law enforcement activities with the SEC.
- 3. To national securities exchanges and national securities associations that are registered with the SEC, the Municipal Securities Rulemaking Board; the Securities Investor Protection Corporation; the Public Company Accounting Oversight Board; the Federal banking authorities, including, but not limited to, the Board of Governors of the Federal Reserve System, the Comptroller of the Currency, and the Federal Deposit Insurance Corporation; state securities regulatory agencies or organizations; or regulatory authorities of a foreign government in connection with their regulatory or enforcement responsibilities.
- 4. By SEC personnel for purposes of investigating possible violations of, or to conduct investigations authorized by, the Federal securities laws.
- 5. In any proceeding where the Federal securities laws are in issue or in which the Commission, or past or present members of its staff, is a party or otherwise involved in an official capacity.
- 6. In connection with proceedings by the Commission pursuant to Rule 102(e) of its Rules of Practice, 17 CFR 201.102(e).

- 7. To a bar association, state accountancy board, or other Federal, state, local, or foreign licensing or oversight authority; or professional association or self-regulatory authority to the extent that it performs similar functions (including the Public Company Accounting Oversight Board) for investigations or possible disciplinary action.
- 8. To a Federal, state, local, tribal, foreign, or international agency, if necessary to obtain information relevant to the SEC's decision concerning the hiring or retention of an employee; the issuance of a security clearance; the letting of a contract; or the issuance of a license, grant, or other benefit.
- 9. To a Federal, state, local, tribal, foreign, or international agency in response to its request for information concerning the hiring or retention of an employee; the issuance of a security clearance; the reporting of an investigation of an employee; the letting of a contract; or the issuance of a license, grant, or other benefit by the requesting agency, to the extent that the information is relevant and necessary to the requesting agency's decision on the matter.
- 10. To produce summary descriptive statistics and analytical studies, as a data source for management information, in support of the function for which the records are collected and maintained or for related personnel management functions or manpower studies; may also be used to respond to general requests for statistical information (without personal identification of individuals) under the Freedom of Information Act.
- 11. To any trustee, receiver, master, special counsel, or other individual or entity that is appointed by a court of competent jurisdiction, or as a result of an agreement between the parties in connection with litigation or administrative proceedings involving allegations of violations of the Federal securities laws (as defined in section 3(a)(47) of the Securities Exchange Act of 1934, 15 U.S.C. 78c(a)(47)) or pursuant to the Commission's Rules of Practice, 17 CFR 201.100 through 900 or the Commission's Rules of Fair Fund and Disgorgement Plans, 17 CFR 201.1100 through 1106, or otherwise, where such trustee, receiver, master, special counsel, or other individual or entity is specifically designated to perform particular functions with respect to, or as a result of, the pending action or proceeding or in connection with the administration and enforcement by the Commission of the Federal securities laws or the Commission's Rules of Practice or the Rules of Fair Fund and Disgorgement Plans.
- 12. To any persons during the course of any inquiry, examination, or investigation conducted by the SEC's staff, or in connection with civil litigation, if the staff has reason to believe that the person to whom the record is disclosed may have further information about the matters related therein, and those matters appeared to be relevant at the time to the subject matter of the inquiry.
- 13. To interns, grantees, experts, contractors, and others who have been engaged by the Commission to assist in the performance of a service related to this system of records and who need access to the records for the purpose of assisting the Commission in the efficient administration of its programs, including by performing clerical, stenographic, or data analysis functions, or by reproduction of records by electronic or other means. Recipients of these records shall be required to comply with the requirements of the Privacy Act of 1974, as amended, 5 U.S.C. 552a.
- 14. In reports published by the Commission pursuant to authority granted in the Federal securities laws (as such term is defined in section 3(a)(47) of the Securities Exchange Act of 1934, 15 U.S.C. 78c(a)(47)), which authority shall include, but not be limited to, section 21(a) of the Securities Exchange Act of 1934, 15 U.S.C. 78u(a)).
- 15. To members of advisory committees that are created by the Commission or by Congress to render advice and recommendations to the Commission or to Congress, to be used solely in connection with their official designated functions.
- 16. To any person who is or has agreed to be subject to the Commission's Rules of Conduct, 17 CFR 200.735-1 through 200.735-18, and who assists in the investigation by the Commission of possible violations of the Federal securities laws (as such term is defined in section 3(a)(47) of the Securities Exchange Act of 1934, 15 U.S.C. 78c(a)(47)), in the preparation or conduct of enforcement actions brought by the Commission for such violations, or otherwise in connection with the Commission's enforcement or regulatory functions under the Federal securities laws.
- 17. To a Congressional office from the record of an individual in response to an inquiry from the Congressional office made at the request of that individual.
- 18. To members of Congress, the press, and the public in response to inquiries relating to particular Registrants and their activities, and other matters under the Commission's jurisdiction.
- 19. To prepare and publish information relating to violations of the Federal securities laws as provided in 15 U.S.C. 78c(a)(47)), as amended.
- 20. To respond to subpoenas in any litigation or other proceeding.
- 21. To a trustee in bankruptcy.
- 22. To any governmental agency, governmental or private collection agent, consumer reporting agency or commercial reporting agency, governmental or private employer of a debtor, or any other person, for collection,

including collection by administrative offset, Federal salary offset, tax refund offset, or administrative wage garnishment, of amounts owed as a result of Commission civil or administrative proceedings.

23. To another Federal agency or Federal entity, when the SEC determines that information from this system of records is reasonably necessary to assist the recipient agency or entity in (1) responding to a suspected or confirmed breach or (2) preventing, minimizing, or remedying the risk of harm to individuals, the recipient agency or entity (including its information systems, programs, and operations), the Federal Government, or national security, resulting from a suspected or confirmed breach.

* * * * *

Small Business Owners: The SEC always welcomes comments on how it can better assist small businesses. If you would like more information, or have questions or comments about federal securities regulations as they affect small businesses, please contact the Office of Small Business Policy, in the SEC's Division of Corporation Finance, at 202-551-3460. If you would prefer to comment to someone outside of the SEC, you can contact the Small Business Regulatory Enforcement Ombudsman at http://www.sba.gov/ombudsman or toll free at 888-REG-FAIR. The Ombudsman's office receives comments from small businesses and annually evaluates federal agency enforcement activities for their responsiveness to the special needs of small business.



UNITED STATES SECURITIES AND EXCHANGE COMMISSION

100 PEARL STREET, SUITE 20-100 NEW YORK, NY 10004-2616

DIVISION OF ENFORCEMENT

February 26, 2024

VIA UPS Offchain Labs, Inc. 252 Nassau Street Floor 2 Princeton, NJ 08542

Re: <u>C-08950</u>

To Whom It May Concern:

The enclosed subpoena has been issued pursuant to a formal order entered by the United States Securities and Exchange Commission. Pursuant to Rule 8 of the United States Securities and Exchange Commission's Rules Relating to Investigations, 17 C.F.R. § 203.8, I have enclosed a subpoena for documents issued to Offchain Labs, Inc. in connection with the above-referenced investigation.

This is a federal civil law enforcement investigation and you must produce all documents described in the attached subpoena. The enclosed subpoena requires Offchain Labs, Inc. to produce documents to the SEC by March 11, 2024 to:

ENF-CPU U.S. Securities and Exchange Commission 14420 Albemarle Point Place, Suite 102 Chantilly, VA 20151-1750

For smaller electronic productions under 10MB in size, the materials may be emailed to the following email address: <u>ENF-CPU@sec.gov</u>.

Please also provide a duplicate copy of any document production cover letters to me at (b)(6); (b)(7)(C) at (b)(6)

Please carefully read the subpoena attachment, which contains, among other things, important instructions related to the manner of producing documents. In particular, if Offchain Labs, Inc. prefers to send us copies of original documents, the staff requests that you scan and

produce hard copy documents, as well as electronic documents, in an electronic format consistent with the SEC Data Delivery Standards attached hereto. All electronic documents responsive to the subpoena, including all metadata, should also be produced in their native software format. If you have any questions concerning the production of documents in an electronic format, please contact me as soon as possible and in any event before producing documents. For security reasons, we strongly encourage the encryption of sensitive documents before production.

When producing the records, please consecutively number and mark each document produced with a symbol that identifies it as being produced by Offchain Labs, Inc. and provide an index which briefly identifies the documents produced.

In your cover letter(s) accompanying the production of responsive documents, please enclose a list briefly describing each item you send. The list should identify the paragraph(s) in the subpoena attachment to which each item responds. Please also state in the cover letter(s) whether you believe Offchain Labs, Inc. has met the obligations of the subpoena by searching carefully and thoroughly for everything called for by the subpoena and sending it all to us.

A copy of the subpoena should be included with the documents that are produced. Correspondence should reference case number and requesting SEC staff member.

Passwords for documents, files, compressed archives, and encrypted media should be provided separately either via email addressed to ENF-CPU@sec.gov, or in a separate cover letter mailed separately from the data. Password correspondence should reference case number and requesting SEC staff member.

In addition, for any documents that qualify as records of regularly conducted activities under Federal Rule of Evidence 902(11), please have the appropriate representative(s) of Offchain Labs, Inc. complete a business records certification (a sample of which is enclosed) and return it with the document production. Execution of this certification may allow the Commission to introduce the documents provided by Offchain Labs, Inc. in any subsequent judicial proceeding, without requiring the testimony of a records custodian.

Enclosed is a copy of the Commission's Form 1662, entitled "Supplemental Information for Persons Requested to Supply Information Voluntarily or Directed to Supply Information Pursuant to a Commission Subpoena." This form explains how we may use the information which Offchain Labs, Inc. provides to the Commission and has other important information. Please provide a copy of this form to Offchain Labs, Inc.

This investigation is a non-public, fact-finding inquiry. We are trying to determine whether there have been any violations of the federal securities laws. The investigation does not mean that we have concluded that anyone has violated the law. Also, the investigation does not mean that we have a negative opinion of any person, entity, or security.

If you have any questions or would like to discuss this matter, you may contact me at (b)(6); (b)(7)(C) sec.gov.

Sincerely,	
(b)(6); (b)(7)(C)	
	f Enforcement
(b)(6); (b)(7)(C)	esec.gov

Enclosures: Subpoena and Attachment

Business Records Certification SEC Data Delivery Standards SEC Form 1662



SUBPOENA

UNITED STATES OF AMERICA SECURITIES AND EXCHANGE COMMISSION

C-08950

To: Offchain Labs, Inc. 252 Nassau Street Floor 2 Princeton, NJ 08542

YOU MUST PRODUCE everything specified in the Attachment to this subpoena to officers of the Securities and Exchange Commission, at the place, date and time specified below:

ENF-CPU, U.S. Securities and Exchange Commission, 14420 Albemarle Point Place, Suite 102 Chantilly, VA 20151-1750, no later than March 11, 2024.

☐ YOU MUST TESTIFY before officers of the Securities and Exchange Commission, at the place, date and time specified below:

FEDERAL LAW REQUIRES YOU TO COMPLY WITH THIS SUBPOENA.

If you do not comply with this subpoena, the SEC may bring an action in Federal Court to enforce this subpoena. Failure to comply with a court order enforcing this subpoena may result in the court imposing a fine, imprisonment, or both.

By: Date: February 26, 26	By: (b)(6); (b)(7)(C)	Date:	February 26, 202
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U.S. Securities and Exchange Commission New York Regional Office 100 Pearl Street, Suite 20-100 New York, NY 10004-2616

I am an officer of the U.S. Securities and Exchange Commission authorized to issue subpoenas in this matter. The Securities and Exchange Commission has issued a formal order authorizing this investigation under Section 20(a) of the Securities Act of 1933.

NOTICE TO WITNESS: If you claim a witness fee or mileage, submit this subpoena with the claim voucher.

SUBPOENA ATTACHMENT FOR OFFCHAIN LABS, INC.

C-08950

February 26, 2024

Definitions

As used in this subpoena, the words and phrases listed below shall have the following meanings:

- 1. "Relevant Period" means July 1, 2018 to the present.
- 2. "Prysmatic Labs" means the entity doing business under the name Prysmatic Labs or Offchain Labs, Inc. including parents, subsidiaries, affiliates, predecessors, successors, officers, directors, employees, agents, general partners, limited partners, partnerships and aliases, code names, or trade or business names used by any of the foregoing.
- 3. The "Ethereum Foundation" means the entity or business doing business under the name Ethereum Foundation, including, but not limited to, ethereum.org, the Ethereum Support Program, and parents, subsidiaries, affiliates, predecessors, successors, officers, directors, employees, agents, general partners, limited partners, partnerships and aliases, owners, code names, or trade or business names used by any of the foregoing.
- 4. "The Merge" or "Ethereum 2.0" means the transition by the Ethereum blockchain of its consensus mechanism from proof-of-work to proof-of-stake.
- 5. "Beacon Chain" means the original proof-of-stake blockchain that was launched in 2020 that ran alongside the original proof-of-work Ethereum blockchain.
- 6. "Document" shall include, but is not limited to, any written, printed, or typed matter including, but not limited to all drafts and copies bearing notations or marks not found in the original, letters and correspondence, interoffice communications, slips, tickets, records, worksheets, financial records, accounting documents, bookkeeping documents, memoranda, reports, manuals, telephone logs, facsimiles, messages of any type, telephone messages, text messages, voice mails, tape recordings, notices, instructions, minutes, summaries, notes of meetings, file folder markings, and any other organizational indicia, purchase orders, information recorded by photographic process, including microfilm and microfiche, computer printouts, spreadsheets, and other electronically stored information, including writings, drawings, graphs, charts, photographs, sound recordings, images, and other data or data compilations that are stored in any medium from which information can be retrieved, obtained, manipulated, or translated.
- 7. "Communication" means any correspondence, contact, discussion, e-mail, instant message, or any other kind of oral or written exchange or transmission of information (in the form of facts, ideas, inquiries, or otherwise), including but not limited to those made on Social Media Services, and any response thereto between two or more Persons or entities, including, without limitation, all telephone conversations, face-to-face meetings

or conversations, internal or external discussions, or exchanges of a Document or Documents.

- 8. "Concerning" means directly or indirectly, in whole or in part, describing, constituting, evidencing, recording, evaluating, substantiating, concerning, referring to, alluding to, in connection with, commenting on, relating to, regarding, discussing, showing, analyzing or reflecting.
- 9. "Agreement" means any actual or contemplated (i) written or oral Agreement; (ii) term or provision of such Agreement; or (iii) amendment of any nature or termination of such Agreement. A request for any Agreement among or between specified parties includes a request for all Documents Concerning (i) any actual or contemplated Agreement among or between such parties, whether or not such Agreement included any other Person; (ii) the drafting or negotiation of any such Agreement; (iii) any actual or contemplated demand, request or application for any such Agreement, and any response thereto; and (iv) any actual or contemplated objection or refusal to enter into any such Agreement, and any response thereto.
- 10. "Bank or Financial Account" means the domestic or foreign bank, brokerage, or financial accounts held, controlled, or used by you or by other people on your behalf. This includes, but is not limited to, accounts that contain currency, securities, or crypto assets.
- 11. "Person" means a natural person, firm, association, organization, partnership, business, trust, corporation, bank or any other private or public entity.
- 12. The term "you" and "your" means the Person to whom or entity to which this subpoena was issued.
- 13. To the extent necessary to bring within the scope of this this subpoena any information or Documents that might otherwise be construed to be outside its scope:
 - a. the word "or" means "and/or";
 - b. the word "and" means "and/or";
 - c. the functional words "each," "every" "any" and "all" shall each be deemed to include each of the other functional words;
 - d. the masculine gender includes the female gender and the female gender includes the masculine gender; and
 - e. the singular includes the plural and the plural includes the singular.

Instructions

1. Unless otherwise specified, this subpoena calls for production of the original Documents and all copies and drafts of same. Documents responsive to this subpoena may be in electronic or paper form. Electronic Documents such as email should be produced in accordance with the attached Document entitled SEC Data Delivery Standards. All responsive electronic Documents, including all metadata, should also be produced in their

native software format.

- 2. For Documents in paper format, you may send the originals, or, if you prefer, you may send copies of the originals. The Commission cannot reimburse you for the copying costs. If you are sending copies, the staff requests that you scan (rather than photocopy) hard copy Documents and produce them in an electronic format consistent with the SEC Data Delivery Standards. Alternatively, you may send us photocopies of the Documents in paper format. If you choose to send copies, you <u>must</u> secure and retain the originals and store them in a safe place. The staff may later request or require that you produce the originals.
- 3. Whether you scan or photocopy Documents, the copies must be identical to the originals, including even faint marks or print. Also, please note that if copies of a Document differ in any way, they are considered separate Documents and you must send each one. For example, if you have two copies of the same letter, but only one of them has handwritten notes on it, you must send both the clean copy and the one with notes.
- 4. In producing a photocopy of an original Document that contains post-it(s), notation flag(s), or other removable markings or attachments which may conceal all or a portion of the markings contained in the original Document, photocopies of the original Document both with and without the relevant post-it(s), notation flag(s), or removable markings or attachments should be produced.
- 5. Documents should be produced as they are kept in the ordinary course of business or be organized and labeled to correspond with the categories in this request. In that regard, Documents should be produced in a unitized manner, i.e., delineated with staples or paper clips to identify the Document boundaries.
- 6. Documents should be labeled with sequential numbering (bates-stamped).
- 7. The scope of any given request should not be limited or narrowed on the basis that it calls for Documents that are responsive to another request.
- 8. This subpoena covers all Documents in or subject to your possession, custody or control, including all Documents that are not in your immediate possession but that you have the effective ability to obtain, that are responsive, in whole or in part, to any of the individual requests set forth below. If, for any reason—including a claim of attorney-client privilege you do not produce something called for by the request, you should submit a list of what you are not producing. The list should describe each item separately, noting:
 - a. its author(s);
 - b. its date;
 - c. its subject matter;
 - d. the name of the Person who has the item now, or the last Person known to have it;
 - e. the names of everyone who ever had the item or a copy of it, and the names of everyone who was told the item's contents;
 - f. the basis upon which you are not producing the responsive Document;

- g. the specific request in the subpoena to which the Document relates;
- h. the attorney(s) and the client(s) involved; and
- i. in the case of the work product doctrine, the litigation for which the Document was prepared in anticipation.
- 9. If Documents responsive to this subpoena no longer exist because they have been lost, discarded, or otherwise destroyed, you should identify such Documents and give the date on which they were lost, discarded, or destroyed.

Documents to be Immediately Preserved and Produced

- 1. All Agreements between Prysmatic Labs and the Ethereum Foundation;
- 2. All Documents and Communications Concerning any grant or other source of funding received from the Ethereum Foundation;
- 3. All Documents and Communications Concerning any work conducted by Prysmatic Labs pursuant to any grant or other source of funding received from the Ethereum Foundation;
- 4. Documents sufficient to identify Prysmatic Labs' crypto asset wallet addresses or Bank or Financial Accounts, located within or outside the U.S., that received any grant or other source of funding from the Ethereum Foundation, as well as the amount of crypto assets or fiat received;
- 5. Documents sufficient to identify all meetings with the Ethereum Foundation, including any Documents related to the meetings identified;
- 6. All Communications with the Ethereum Foundation, including, but not limited to, Communications with board members, consultants, officers, directors, employees, developers, coders, and others performing work on behalf of these entities, related to The Merge or the Beacon Chain.

DECLARATION OF [Insert Name] CERTIFYING RECORDS OF REGULARLY CONDUCTED BUSINESS ACTIVITY

I, the undersigned, [insert name], pursuant to 28 U.S.C. § 1746, declare that:

- 1. I am employed by Offchain Labs, Inc. as [insert position] and by reason of my position am authorized and qualified to make this declaration. [if possible supply additional information as to how person is qualified to make declaration, e.g., I am custodian of records, I am familiar with the company's recordkeeping practices or systems, etc.]
- 2. I further certify that the documents [attached hereto or submitted herewith] and stamped [insert bates range] are true copies of records that were:
 - (a) made at or near the time of the occurrence of the matters set forth therein, by, or from information transmitted by, a person with knowledge of those matters;
 - (b) kept in the course of regularly conducted business activity; and
 - (c) made by the regularly conducted business activity as a regular practice.

I declare under penalty of perjury that the foregoing is true and correct. Executed on [date].

[N	ame]	



U.S. Securities and Exchange Commission

Data Delivery Standards

This document describes the technical requirements for paper and electronic document productions to the U.S. Securities and Exchange Commission (SEC). **Any questions or proposed file formats other than those described below must be discussed with the legal and technical staff of the SEC Division of Enforcement prior to submission. **

General Instructions	
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I. Imaged Productions	7
1. Images 1 roductions 1. Images 1.	.:
2. Image Cross-Reference File	
3. Data File	
4. Text	
5. Linked Native Files	
II. Native File Productions without Load Files	
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General Instructions

The current mailing address for all physical productions sent to the SEC is:

ENF-CPU (U.S. Securities & Exchange Commission), 14420 Albemarle Point Place, Suite 102, Chantilly, VA 20151-1750

Electronic files must be produced in their native format, i.e. the format in which they are ordinarily used and maintained during the normal course of business. For example, an MS Excel file must be produced as an MS Excel file rather than an image of a spreadsheet. (Note: An Adobe PDF file is not considered a native file unless the document was initially created as a PDF.)

In the event produced files require the use of proprietary software not commonly found in the workplace, the SEC will explore other format options with the producing party.

The proposed use of file de-duplication methodologies or computer-assisted review or technology-assisted review (TAR) during the processing of documents must be discussed with and approved by the legal and technical staff of the Division of Enforcement (ENF). If your production will be de-duplicated it is vital that you 1) preserve any unique metadata associated with the duplicate files, for example, custodian name and file location and, 2) make that unique metadata part of your production to the SEC.

General requirements for ALL document productions are:

- 1. A cover letter must be included with each production and should include the following information:
 - a. Case number, ease name and requesting SEC staff member name
 - b. A list of each piece of media included in the production with its unique production volume number
 - c. A list of custodians, identifying the Bates range for each custodian
 - d. A list of redacted documents and the redaction reason
 - c. The time zone in which the emails were standardized during conversion
 - f. Whether the production contains native files produced from Mac operating system environments
- Data can be produced on CD, DVD, thumb drive, etc., using the media requiring the least number of deliverables and labeled with the following:
 - a. Case number
 - b. Production date
 - c. Producing party
 - d. Bates range (if applicable)
- All submissions must be organized by custodian unless otherwise instructed.
- 4. All document family groups, i.e. email attachments, embedded files, etc., should be produced together and children files should follow parent files sequentially in the Bates numbering.
- 5. All load-ready collections should include only one data load file and one image pointer file.
- All load-ready text must be produced as separate document-level text files.
- 7. All load-ready collections should account for custodians in the custodian field.
- All load-ready collections must provide the extracted contents of any container files to ensure all relevant files are produced as separate records.
- 9. Audio files should be separated from data files if both are included in the production.
- 10. Only alphanumeric characters and the underscore character are permitted in file names and folder names. Special characters are not permitted.
- 11. All electronic productions submitted on media must be produced using industry standard self-extracting encryption software.
- 12. The SEC uses 7zip to access compressed files. Note that the SEC cannot accept files that use AES-256 Jpeg or pkAES-256-Cert Deflate compression methods, even if the files are created with 7zip. If you have any questions or need additional information, please reach out to the requesting SEC staff member.
- 13. Electronic productions of 30 GB or less are strongly encouraged to be submitted via Secure File Transfer. All Secure File Transfers should be sent to the SEC Centralized Production Unit (ENF-CPU@sec.gov) with a CC to the requesting SEC staff member. If you do not have your own Secure File Transfer application, you may reach out to the requesting SEC staff member for a link to the SEC system in order to upload your production. If using the SEC Secure File Transfer system, you will NOT be able to CC individuals outside the SEC on your upload transmission. Note that the SEC cannot accept productions made using file sharing sites such as Google Drive or Microsoft Office 365.
- 14. Productions containing BSA or SAR material must be encrypted. Secure File Transfer applications may be used to produce BSA or SAR material. BSA or SAR material should be segregated and appropriately marked as BSA or SAR, or should be produced separately from other case related records.
- 15. Passwords for electronic documents, files, compressed archives and encrypted media must be provided separately either via email or in a cover letter apart from the media.
- 16. All electronic productions should be produced free of computer viruses.
- 17. Before producing forensically collected images, parties should reach out to the requesting SEC staff member in order to discuss appropriate handling.
- 18. Before producing unique data sets (large sets of relational data, website reconstruction, chat room data, etc.), parties should reach out to the requesting SEC staff member in order to discuss an appropriate production format.
- Additional technical descriptions can be found in the addendum to this document.

Please note that productions sent to the SEC via United States Postal Service are subject to Mail Irradiation, and as a result electronic productions may be damaged.

Delivery Formats

Imaged Productions

The SEC prefers that all scanned paper and electronic file collections be produced in a structured format including industry standard load files, Bates numbered image files, native files and searchable document-level text files. Bates numbers should not contain spaces. Hyphens (-) and underscores (-) are acceptable.

1. Images

- Black and white images must be 300 DPI Group IV single-page TIFF files
- b. Color images must be produced in JPEG format
- File names cannot contain embedded spaces or special characters (including the comma)
- d. Folder names cannot contain embedded spaces or special characters (including the comma)
- e. All image files must have a unique file name, i.e. Bates number
- f. Images must be endorsed with sequential Bates numbers in the lower right corner of each image
- The number of image files per folder should not exceed 2,000 files g.
- h. Excel spreadsheets should have a placeholder image named by the Bates number of the file
- AUTOCAD/photograph files should be produced as a single page JPEG file

2. Image Cross-Reference File

The image cross-reference file (LOG or .OPT) links the images to the database records. It should be a comma-delimited file consisting of seven fields per line with a line in the cross-reference file for every image in the database with the following format:

ImageID, VolumeLabel, ImageFilePath, DocumentBreak, FolderBreak, BoxBreak, PageCount

3. Data File

The data file (.DAT) contains all of the fielded information that will be loaded into the database.

- The first line of the .DAT file must be a header row identifying the field names
- The .DAT file must use the following *Concordance*® default delimiters:

Comma ¶ ASCII character (020)

Quote b ASCII character (254)

- c. If the .DAT file is produced in Unicode format it must contain the byte order marker
- d. Date fields should be provided in the format: mm/dd/yyyy
- Date and time fields must be two separate fields
- The time zone must be included in all time fields f.
- If the production includes imaged emails and attachments, the attachment fields must be included to preserve the parent/child relationship between an email and its attachments
- An OCRPATH field must be included to provide the file path and name of the extracted text file on the produced storage media. The text file must be named after the FIRSTBATES. Do not include the text in the .DAT file.
- For productions with native files, a LINK field must be included to provide the file path and name of the native file on the produced storage media. The native file must be named after the FIRSTBATES.
- BEGATTACH and ENDATTACH fields must be two separate fields
- A complete list of metadata fields is available in Addendum A to this document

4. Text

Text must be produced as separate document-level text files, not as fields within the .DAT file. The text files must be named per the FIRSTBATES/Image Key and the full path to the text file (OCRPATII) should be included in the .DAT file. Text files may be in either ANSI or Unicode format, however, ALL text files must be in the same format within the same production. Note that productions containing text with foreign characters must produce text files in Unicode format to preserve the foreign characters. Text files must be in a separate folder, and the number of text files per folder should not exceed 2,000 files. There should be no special characters (including commas) in the folder names. For redacted documents, provide the full text for the redacted version.

Linked Native Files

Copies of original email and native file documents/attachments must be included for all electronic productions.

- a. Native file documents must be named per the FIRSTBATES number
- b. The full path of the native file must be provided in the .DAT file for the LINK field
- The number of native files per folder should not exceed 2,000 files

II. Native File Production without Load Files

With prior approval, native files may be produced without load files. Native file productions should not be Bates numbered. Native files must be produced as they are maintained in the normal course of business and organized by custodian-named file folders. Native email files (.PST or .MBOX) must be separated by custodian.

III. Adobe PDF File Production

With prior approval, Adobe PDF files may be produced in native file format.

- 1. All PDFs must be unitized at the document level, i.e. each PDF must represent a discrete document.
- 2. PDF files should be produced in separate folders named by the custodian. The folders should not contain any special characters (including commas).
- 3. All PDF files must contain embedded text that includes all discernible words within the document, not selected text or image only. This requires all layers of the PDF to be flattened first.
- 4. If PDF files are Bates endorsed, the PDF files must be named by the Bates range.

IV. Audio Files

Audio files from telephone recording systems must be produced in a format that is playable using Microsoft Windows Media PlayerTM. Additionally, the call information (metadata) related to each audio recording MUST be provided. The metadata file must be produced in a delimited text format. Field names must be included in the first row of the text file. The metadata must include, at a minimum, the following fields:

1) Caller Name: Caller's name or account/identification number

2) Originating Number: Caller's phone number3) Called Party Name: Called party's name

4) Terminating Number: Called party's phone number

5) Date: Date of call
6) Time: Time of call

7) Filename: Filename of audio file

V. Video Files

Video files must be produced in a format that is playable using Microsoft Windows Media PlayerTM.

VI. Electronic Trade and Bank Records

When producing electronic trade records, bank records, or financial statements, provide the files in one of the following formats:

- 1. MS Excel spreadsheet with header information detailing the field structure. If any special codes exist in the dataset, a separate document must be provided that details all such codes. If details of the field structure do not fit in the header, a separate document must be provided that includes such details.
- 2. Delimited text file with header information detailing the field structure. The preferred delimiter is a vertical bar "|". If any special codes exist in the dataset, a separate document must be provided that details all such codes. If details of the field structure do not fit in the header, a separate document must be provided that includes such details.

VII. Electronic Phone Records

When producing an MS Excel spreadsheet for electronic phone records, provide the files in the following format:

- 1. MS Excel spreadsheet with header information detailing the field structure. If any special codes exist in the dataset, a separate document must be provided that details all such codes. If details of the field structure do not fit in the header, a separate document must be provided that includes such details. Data must be formatted in its native format (i.e. dates in a date format, numbers in an appropriate numerical format, and numbers with leading zeroes as text).
 - a. The metadata that must be included is outlined in **Addendum B** of this document. Each field of data must be loaded into a separate column. For example, Date and Start_Time must be produced in separate columns and not combined into a single column containing both pieces of information. Any fields of data that are provided in addition to those listed in **Addendum B** must also be loaded into separate columns.

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Data Delivery Standards

VIII. Audit Workpapers

The SEC prefers for workpapers to be produced in two formats: (1) With Bates numbers in accordance with the SEC Data Delivery Standards; and (2) in native format via laptop computer, web-based viewing platform, or otherwise, allowing for viewing in the same format and organization as the firm's audit team. Prior to production of workpapers via laptop computer or web-based viewing platform, audit firms should contact the requesting SEC staff member for additional information and written agreements addressing use of software, access, and viewing protocols.

IX. Mobile Device Data

Before producing any mobile device data (including but not limited to text messages and application data) parties should reach out to the requesting SEC staff member in order to discuss the appropriate production format. Productions containing chat data from applications must be identified at the time of production and the following information must be provided to the requesting SEC staff member and the SEC Centralized Production Unit: chat application, chat data format, and how the length of a chat is determined (i.e. set duration of time, number of minutes without messages, etc.)

ADDENDUM A

The metadata of electronic document collections should be extracted and provided in a .DAT file using the field definition and formatting described below:

Field Name	Sample Data	Description
FIRSTBATES	EDC0000001	First Bates number of native file document/email
LASTBATES	EDC0000001	Last Bates number of native file document/email
		**The LASTBATES field should be populated
		for single page documents/emails.
ATTACHRANGE	EDC0000001 - EDC0000015	Bates number of the first page of the parent
		document to the Bates number of the last page of the
		last attachment "child" document
BEGATTACH	EDC0000001	First Bates number of attachment range
ENDATTACH	EDC0000015	Last Bates number of attachment range
PARENT_BATES	EDC0000001	First Bates number of parent document/Email **This PARENT_BATES field should be populated
		in each record representing an attachment "child"
		document
CHILD BATES	EDC0000002; EDC0000014	First Bates number of "child" attachment(s); can be
		more than one Bates number listed depending on the
		number of attachments
		**The CHILD BATES field should be populated in
		each record representing a "parent" document
CUSTODIAN	Smith, John	Email: Mailbox where the email resided
		Native: Name of the individual or department from
		whose files the document originated
FROM	John Smith	Email: Sender
		Native: Author(s) of document
		**semi-colon should be used to separate multiple
		entries
TO	Coffman, Janice; LeeW	Recipient(s)
	[mailto:LecW@MSN.com]	**semi-colon should be used to separate multiple
		entries
CC	Frank Thompson [mailto:	Carbon copy recipient(s)
	frank_Thompson@cdt.com]	**semi-colon should be used to separate multiple
D.C.C.		entries
BCC	John Cain	Blind carbon copy recipient(s)
		**semi-colon should be used to separate multiple
SUBJECT	Board Meeting Minutes	entries Email: Subject line of the email
SUBJECT	Board Meeting Minutes	Native: Title of document (if available)
FILE_NAME	BoardMeetingMinutes.docx	Native: Name of the original native file, including
TILL_WANG	Board.viceting.vindies.docx	extension
DATE SENT	10/12/2010	Email: Date the email was sent
DATE SERVE	10/12/2010	Native: (empty)
TIME SENT/TIME	07:05 PM GMT	Email: Time the email was sent/ Time zone in which
ZONE		the emails were standardized during conversion.
		Native: (empty)
		**This data must be a separate field and cannot be
		combined with the DATE_SENT field
TIME_ZONE	GMT	The time zone in which the emails were standardized
		during conversion.
		Email: Time zone
		Native: (empty)
	·	

LINK	D:\001\EDC0000001.msg	Hyperlink to the email or native file document **The linked file must be named per the FIRSTBATES number
MIME_TYPE	application/msword	The content type of an email or native file document as identified/extracted from the header
FILE_EXTEN	MSG	The file type extension representing the email or native file document; will vary depending on the format
AUTHOR	John Smith	Email: (empty) Native: Author of the document
LAST_AUTHOR	Jane Doe	Email: (empty) Native: Last Author of the document
DATE_CREATED	10/10/2010	Email: (empty) Native: Date the document was created
TIME_CREATED/T IME_ZONE	10:25 AM GMT	Email: (empty) Native: Time the document was created including time zone **This data must be a separate field and cannot be combined with the DATE_CREATED field
DATE_MOD	10/12/2010	Email: (empty) Native: Date the document was last modified
TIME_MOD/TIME_ ZONE	07:00 PM GMT	Email: (empty) Native: Time the document was last modified including the time zone **This data must be a separate field and cannot be combined with the DATE_MOD field
DATE_ACCESSD	10/12/2010	Email: (empty) Native: Date the document was last accessed
TIME_ACCESSD/T IME_ZONE	07:00 PM GMT	Email: (empty) Native: Time the document was last accessed including the time zone **This data must be a separate field and cannot be combined with the DATE_ACCESSD field
PRINTED_DATE	10/12/2010	Email: (empty) Native: Date the document was last printed
FILE_SIZE	5,952	Size of native file document/email in KB
PGCOUNT	1	Number of pages in native file document/email
PATH	J:\Shared\SmithJ\October Agenda.doc	Email: (empty) Native: Path where native file document was stored including original file name.
INTFILEPATH	Personal Folders\Deleted Items\Board Meeting Minutes.msg	Email: original location of email including original file name. Native: (empty)
INTMSGID	<000805c2c71bS75977050Scb 8306d1@MSN>	Email: Unique Message ID Native: (empty)

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HEADER	Return-Path: <example_from@dc.edu> X-SpamCatcher-Score:1[X] Received:from[136.167.40.119] (HELO dc.edu) by fe3.dc.edu (CommuniGate Pro SMTP4.1.8) with ESMTP-TLS id 61258719 for example_to@mail.dc.edu; Mon, 23 Aug 2004 11:40:10 - 0400 Message-ID: <<4129F3CA.2020509@dc.edu> Date: Mon, 23 Aug 2005 11:40:36 -400 From: Taylor Evans <example_from@dc.edu> User-Agent:Mozilla/5.0 (Windows;U; Windows NT 5.1: en-US;rv:1.0.1) Gecko/20020823 Netscape/7.0 X-Accept-Language:en-us,en MIME-Version:1.0 To: Jon Smith <example_to@mail.dc.edu> Subject:Business Development Meeting Content-Type: text/plain;charset=us-ascii; format=flowed Content-Transfer-Encoding:7bit</example_to@mail.dc.edu></example_from@dc.edu></example_from@dc.edu>	
SHA256	AD6128C5CA40164AF71A1E FC800E12D2F195CE07BB5F8 C813B0888A2DDE6A06F	SHA-256 hash value of the document.
OCRPATH	TEXT/001/EDC0000001.txt	Path to extracted text of the native file

Sample Image Cross-Reference File:

IMG0000001,,E:\001\IMG0000001.TIF,Y,,,
IMG0000002,,E:\001\IMG0000002.TIF,,,,
IMG0000003,,E:\001\IMG0000004.TIF,Y,,,
IMG0000004,,E:\001\IMG0000005.TIF,Y,,,
IMG0000005,,E:\001\IMG0000005.TIF,Y,,,
IMG0000006,,E:\001\IMG0000006.TIF,,,,,

ADDENDUM B

For Electronic Phone Records, include the following fields in separate columns:

For Calls:

- 1) Account Number
- 2) Connection Date Date the call was received or made
- 3) Connection Time Time call was received or made
- 4) Seizure Time Time it took for the call to be placed in seconds
- 5) Originating Number Phone that placed the call
- 6) Terminating Number Phone that received the call
- 7) Elapsed Time The length of time the call lasted, preferably in seconds
- 8) End Time The time the call ended
- 9) Number Dialed Actual number dialed
- 10) IMEI Originating Unique id to phone used to make call
- 11) IMEI Terminating-Unique id to phone used to receive call
- 12) IMSI Originating Unique id to phone used to make call
- 13) IMSI Terminating- Unique id to phone used to receive call
- 14) Call Codes Identify call direction or other routing information
- 15) Time Zone Time Zone in which the call was received or placed, if applicable

For Text messages:

- 1) Account Number
- 2) Connection Date Date the text was received or made
- 3) Connection Time Time text was received or made
- 4) Originating Number Who placed the text
- 5) Terminating Number Who received the text
- 6) IMEI Originating Unique id to phone used to make text
- 7) IMEI Terminating—Unique id to phone used to receive text
- 8) IMSI Originating Unique id to phone used to make text
- 9) IMSI Terminating- Unique id to phone used to receive text
- 10) Text Code Identify text direction, or other text routing information
- 11) Text Type Code Type of text message (sent SMS, MMS, or other)
- 12) Time Zone Time Zone in which the call was received or placed, if applicable

For Mobile Data Usage:

- 1) Account Number
- Connection Date Date the data was received or made
- 3) Connection Time Time data was received or made
- 4) Originating number Number that used data
- 5) IMEI Originating Unique id of phone that used data
- 6) IMSI Originating Unique id of phone that used data
- 7) Data or Data codes Identify data direction, or other data routing information
- 8) Time Zone Time Zone in which the call was received or placed, if applicable

SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549

Supplemental Information for Persons Requested to Supply Information Voluntarily or Directed to Supply Information Pursuant to a Commission Subpoena

A. False Statements and Documents

Section 1001 of Title 18 of the United States Code provides that fines and terms of imprisonment may be imposed upon:

[W]hoever, in any matter within the jurisdiction of the executive, legislative, or judicial branch of the Government of the United States, knowingly and willfully--

- (1) falsifies, conceals, or covers up by any trick, scheme, or device a material fact;
- (2) makes any materially false, fictitious, or fraudulent statement or representation; or
- (3) makes or uses any false writing or document knowing the same to contain any materially false, fictitious, or fraudulent statement or entry.

Section 1519 of Title 18 of the United States Code provides that fines and terms of imprisonment may be imposed upon:

Whoever knowingly alters, destroys, mutilates, conceals, covers up, falsifies, or makes a false entry in any record, document, or tangible object with the intent to impede, obstruct, or influence the investigation or proper administration of any matter within the jurisdiction of any department or agency of the United States . . ., or in relation to or contemplation of any such matter.

B. Testimony

If your testimony is taken, you should be aware of the following:

- 1. Record. Your testimony will be transcribed by a reporter. If you desire to go off the record, please indicate this to the Commission employee taking your testimony, who will determine whether to grant your request. The reporter will not go off the record at your, or your counsel's, direction.
- 2. Counsel. You have the right to be accompanied, represented and advised by counsel of your choice. Your counsel may advise you before, during and after your testimony; question you briefly at the conclusion of your testimony to clarify any of the answers you give during testimony; and make summary notes during your testimony solely for your use. If you are accompanied by counsel, you may consult privately.

If you are not accompanied by counsel, please advise the Commission employee taking your testimony if, during the testimony, you desire to be accompanied, represented and advised by counsel. Your testimony will be adjourned once to afford you the opportunity to arrange to be so accompanied, represented or advised.

You may be represented by counsel who also represents other persons involved in the Commission's investigation. This multiple representation, however, presents a potential conflict of interest if one client's interests are or may be adverse to another's. If you are represented by counsel who also represents other persons involved in the investigation, the Commission will assume that you and counsel have discussed and resolved all issues concerning possible conflicts of interest. The choice of counsel, and the responsibility for that choice, is yours.

3. Transcript Availability. Rule 6 of the Commission's Rules Relating to Investigations, 17 CFR 203.6, states:

A person who has submitted documentary evidence or testimony in a formal investigative proceeding shall be entitled, upon written request, to procure a copy of his documentary evidence or a transcript of his testimony on payment of the appropriate fees: *Provided, however*, That in a nonpublic formal investigative proceeding the Commission may for good cause deny such request. In any event, any witness, upon proper identification, shall have the right to inspect the official transcript of the witness' own testimony.

If you wish to purchase a copy of the transcript of your testimony, the reporter will provide you with a copy of the appropriate form. Persons requested to supply information voluntarily will be allowed the rights provided by this rule.

4. *Perjury.* Section 1621 of Title 18 of the United States Code provides that fines and terms of imprisonment may be imposed upon:

Whoever--

(1) having taken an oath before a competent tribunal, officer, or person, in any case in which a law of the United States authorizes an oath to be administered, that he will testify, declare,

depose, or certify truly, or that any written testimony, declaration, deposition, or certificate by him subscribed, is true, willfully and contrary to such oath states or subscribes any material matter which he does not believe to be true; or

- (2) in any declaration, certificate, verification, or statement under penalty of perjury as permitted under section 1746 of title 28, United States Code, willfully subscribes as true any material matter which he does not believe to be true.
- 5. Fifth Amendment and Voluntary Testimony. Information you give may be used against you in any federal, state, local or foreign administrative, civil or criminal proceeding brought by the Commission or any other agency.

You may refuse, in accordance with the rights guaranteed to you by the Fifth Amendment to the Constitution of the United States, to give any information that may tend to incriminate you.

If your testimony is not pursuant to subpoena, your appearance to testify is voluntary, you need not answer any question, and you may leave whenever you wish. Your cooperation is, however, appreciated.

6. Formal Order Availability. If the Commission has issued a formal order of investigation, it will be shown to you during your testimony, at your request. If you desire a copy of the formal order, please make your request in writing.

C. Submissions and Settlements

Rule 5(c) of the Commission's Rules on Informal and Other Procedures, 17 CFR 202.5(c), states:

Persons who become involved in . . . investigations may, on their own initiative, submit a written statement to the Commission setting forth their interests and position in regard to the subject matter of the investigation. Upon request, the staff, in its discretion, may advise such persons of the general nature of the investigation, including the indicated violations as they pertain to them, and the amount of time that may be available for preparing and submitting a statement prior to the presentation of a staff recommendation to the Commission for the commencement of an administrative or injunction proceeding. Submissions by interested persons should be forwarded to the appropriate Division Director or Regional Director with a copy to the staff members conducting the investigation and should be clearly referenced to the specific investigation to which they relate. In the event a recommendation for the commencement of an enforcement proceeding is presented by the staff, any submissions by interested persons will be forwarded to the Commission in conjunction with the staff memorandum.

The staff of the Commission routinely seeks to introduce submissions made pursuant to Rule 5(c) as evidence in Commission enforcement proceedings, when the staff deems appropriate.

Rule 5(f) of the Commission's Rules on Informal and Other Procedures, 17 CFR 202.5(f), states:

In the course of the Commission's investigations, civil lawsuits, and administrative proceedings, the staff, with appropriate authorization, may discuss with persons involved the disposition of such matters by consent, by settlement, or in some other manner. It is the policy of the Commission, however, that the disposition of any such matter may not, expressly or impliedly, extend to any criminal charges that have been, or may be, brought against any such person or any recommendation with respect thereto. Accordingly, any person involved in an enforcement matter before the Commission who consents, or agrees to consent, to any judgment or order does so solely for the purpose of resolving the claims against him in that investigative, civil, or administrative matter and not for the purpose of resolving any criminal charges that have been, or might be, brought against him. This policy reflects the fact that neither the Commission nor its staff has the authority or responsibility for instituting, conducting, settling, or otherwise disposing of criminal proceedings. That authority and responsibility are vested in the Attorney General and representatives of the Department of Justice.

D. Freedom of Information Act

The Freedom of Information Act, 5 U.S.C. 552 (the "FOIA"), generally provides for disclosure of information to the public. Rule 83 of the Commission's Rules on Information and Requests, 17 CFR 200.83, provides a procedure by which a person can make a written request that information submitted to the Commission not be disclosed under the FOIA. That rule states that no determination as to the validity of such a request will be made until a request for disclosure of the information under the FOIA is received. Accordingly, no response to a request that information not be disclosed under the FOIA is necessary or will be given until a request for disclosure under the FOIA is received. If you desire an acknowledgment of receipt of your written request that information not be disclosed under the FOIA, please provide a duplicate request, together with a stamped, self-addressed envelope.

E. Authority for Solicitation of Information

Persons Directed to Supply Information Pursuant to Subpoena. The authority for requiring production of information is set forth in the subpoena. Disclosure of the information to the Commission is mandatory, subject to the valid assertion of any legal right or privilege you might have.

Persons Requested to Supply Information Voluntarily. One or more of the following provisions authorizes the Commission to solicit the information requested: Sections 19 and/or 20 of the Securities Act of 1933; Section 21 of the Securities Exchange Act of 1934; Section 321 of the Trust Indenture Act of 1939; Section 42 of the Investment Company Act of 1940; Section 209 of the Investment Advisers Act of 1940; and 17 CFR 202.5. Disclosure of the requested information to the Commission is voluntary on your part.

F. Effect of Not Supplying Information

Persons Directed to Supply Information Pursuant to Subpoena. If you fail to comply with the subpoena, the Commission may seek a court order requiring you to do so. If such an order is obtained and you thereafter fail to supply the information, you may be subject to civil and/or criminal sanctions for contempt of court. In addition, Section 21(c) of the Securities Exchange Act of 1934, Section 42(c) of the Investment Company Act of 1940, and Section 209(c) of the Investment Advisers Act of 1940 provide that fines and terms of imprisonment may be imposed upon any person who shall, without just cause, fail or refuse to attend and testify or to answer any lawful inquiry, or to produce books, papers, correspondence, memoranda, and other records in compliance with the subpoena.

Persons Requested to Supply Information Voluntarily. There are no direct sanctions and thus no direct effects for failing to provide all or any part of the requested information.

G. Principal Uses of Information

The Commission's principal purpose in soliciting the information is to gather facts in order to determine whether any person has violated, is violating, or is about to violate any provision of the federal securities laws or rules for which the Commission has enforcement authority, such as rules of securities exchanges and the rules of the Municipal Securities Rulemaking Board. Facts developed may, however, constitute violations of other laws or rules. Information provided may be used in Commission and other agency enforcement proceedings. Unless the Commission or its staff explicitly agrees to the contrary in writing, you should not assume that the Commission or its staff acquiesces in, accedes to, or concurs or agrees with, any position, condition, request, reservation of right, understanding, or any other statement that purports, or may be deemed, to be or to reflect a limitation upon the Commission's receipt, use, disposition, transfer, or retention, in accordance with applicable law, of information provided.

H. Routine Uses of Information

The Commission often makes its files available to other governmental agencies, particularly United States Attorneys and state prosecutors. There is a likelihood that information supplied by you will be made available to such agencies where appropriate. Whether or not the Commission makes its files available to other governmental agencies is, in general, a confidential matter between the Commission and such other governmental agencies.

Set forth below is a list of the routine uses which may be made of the information furnished.

- 1. To appropriate agencies, entities, and persons when (1) the SEC suspects or has confirmed that there has been a breach of the system of records, (2) the SEC has determined that as a result of the suspected or confirmed breach there is a risk of harm to individuals, the SEC (including its information systems, programs, and operations), the Federal Government, or national security; and (3) the disclosure made to such agencies, entities, and persons is reasonably necessary to assist in connection with the SEC's efforts to respond to the suspected or confirmed breach or to prevent, minimize, or remedy such harm.
- 2. To other Federal, state, local, or foreign law enforcement agencies; securities self-regulatory organizations; and foreign financial regulatory authorities to assist in or coordinate regulatory or law enforcement activities with the SEC.
- 3. To national securities exchanges and national securities associations that are registered with the SEC, the Municipal Securities Rulemaking Board; the Securities Investor Protection Corporation; the Public Company Accounting Oversight Board; the Federal banking authorities, including, but not limited to, the Board of Governors of the Federal Reserve System, the Comptroller of the Currency, and the Federal Deposit Insurance Corporation; state securities regulatory agencies or organizations; or regulatory authorities of a foreign government in connection with their regulatory or enforcement responsibilities.
- 4. By SEC personnel for purposes of investigating possible violations of, or to conduct investigations authorized by, the Federal securities laws.
- 5. In any proceeding where the Federal securities laws are in issue or in which the Commission, or past or present members of its staff, is a party or otherwise involved in an official capacity.
- 6. In connection with proceedings by the Commission pursuant to Rule 102(e) of its Rules of Practice, 17 CFR 201.102(e).

- 7. To a bar association, state accountancy board, or other Federal, state, local, or foreign licensing or oversight authority; or professional association or self-regulatory authority to the extent that it performs similar functions (including the Public Company Accounting Oversight Board) for investigations or possible disciplinary action.
- 8. To a Federal, state, local, tribal, foreign, or international agency, if necessary to obtain information relevant to the SEC's decision concerning the hiring or retention of an employee; the issuance of a security clearance; the letting of a contract; or the issuance of a license, grant, or other benefit.
- 9. To a Federal, state, local, tribal, foreign, or international agency in response to its request for information concerning the hiring or retention of an employee; the issuance of a security clearance; the reporting of an investigation of an employee; the letting of a contract; or the issuance of a license, grant, or other benefit by the requesting agency, to the extent that the information is relevant and necessary to the requesting agency's decision on the matter.
- 10. To produce summary descriptive statistics and analytical studies, as a data source for management information, in support of the function for which the records are collected and maintained or for related personnel management functions or manpower studies; may also be used to respond to general requests for statistical information (without personal identification of individuals) under the Freedom of Information Act.
- 11. To any trustee, receiver, master, special counsel, or other individual or entity that is appointed by a court of competent jurisdiction, or as a result of an agreement between the parties in connection with litigation or administrative proceedings involving allegations of violations of the Federal securities laws (as defined in section 3(a)(47) of the Securities Exchange Act of 1934, 15 U.S.C. 78c(a)(47)) or pursuant to the Commission's Rules of Practice, 17 CFR 201.100 through 900 or the Commission's Rules of Fair Fund and Disgorgement Plans, 17 CFR 201.1100 through 1106, or otherwise, where such trustee, receiver, master, special counsel, or other individual or entity is specifically designated to perform particular functions with respect to, or as a result of, the pending action or proceeding or in connection with the administration and enforcement by the Commission of the Federal securities laws or the Commission's Rules of Practice or the Rules of Fair Fund and Disgorgement Plans.
- 12. To any persons during the course of any inquiry, examination, or investigation conducted by the SEC's staff, or in connection with civil litigation, if the staff has reason to believe that the person to whom the record is disclosed may have further information about the matters related therein, and those matters appeared to be relevant at the time to the subject matter of the inquiry.
- 13. To interns, grantees, experts, contractors, and others who have been engaged by the Commission to assist in the performance of a service related to this system of records and who need access to the records for the purpose of assisting the Commission in the efficient administration of its programs, including by performing clerical, stenographic, or data analysis functions, or by reproduction of records by electronic or other means. Recipients of these records shall be required to comply with the requirements of the Privacy Act of 1974, as amended, 5 U.S.C.
- 14. In reports published by the Commission pursuant to authority granted in the Federal securities laws (as such term is defined in section 3(a)(47) of the Securities Exchange Act of 1934, 15 U.S.C. 78c(a)(47)), which authority shall include, but not be limited to, section 21(a) of the Securities Exchange Act of 1934, 15 U.S.C. 78u(a)).
- 15. To members of advisory committees that are created by the Commission or by Congress to render advice and recommendations to the Commission or to Congress, to be used solely in connection with their official designated functions.
- 16. To any person who is or has agreed to be subject to the Commission's Rules of Conduct, 17 CFR 200.735-1 through 200.735-18, and who assists in the investigation by the Commission of possible violations of the Federal securities laws (as such term is defined in section 3(a)(47) of the Securities Exchange Act of 1934, 15 U.S.C. 78c(a)(47)), in the preparation or conduct of enforcement actions brought by the Commission for such violations, or otherwise in connection with the Commission's enforcement or regulatory functions under the Federal securities laws.
- 17. To a Congressional office from the record of an individual in response to an inquiry from the Congressional office made at the request of that individual.
- 18. To members of Congress, the press, and the public in response to inquiries relating to particular Registrants and their activities, and other matters under the Commission's jurisdiction.
- 19. To prepare and publish information relating to violations of the Federal securities laws as provided in 15 U.S.C. 78c(a)(47)), as amended.
- 20. To respond to subpoenas in any litigation or other proceeding.
- 21. To a trustee in bankruptcy.
- 22. To any governmental agency, governmental or private collection agent, consumer reporting agency or commercial reporting agency, governmental or private employer of a debtor, or any other person, for collection,

including collection by administrative offset, Federal salary offset, tax refund offset, or administrative wage garnishment, of amounts owed as a result of Commission civil or administrative proceedings.

23. To another Federal agency or Federal entity, when the SEC determines that information from this system of records is reasonably necessary to assist the recipient agency or entity in (1) responding to a suspected or confirmed breach or (2) preventing, minimizing, or remedying the risk of harm to individuals, the recipient agency or entity (including its information systems, programs, and operations), the Federal Government, or national security, resulting from a suspected or confirmed breach.

* * * * *

Small Business Owners: The SEC always welcomes comments on how it can better assist small businesses. If you would like more information, or have questions or comments about federal securities regulations as they affect small businesses, please contact the Office of Small Business Policy, in the SEC's Division of Corporation Finance, at 202-551-3460. If you would prefer to comment to someone outside of the SEC, you can contact the Small Business Regulatory Enforcement Ombudsman at http://www.sba.gov/ombudsman or toll free at 888-REG-FAIR. The Ombudsman's office receives comments from small businesses and annually evaluates federal agency enforcement activities for their responsiveness to the special needs of small business.



UNITED STATES SECURITIES AND EXCHANGE COMMISSION

100 PEARL STREET, SUITE 20-100 NEW YORK, NY 10004-2616

DIVISION OF ENFORCEMENT

February 26, 2024

VIA UPS and email hello@harmony.one Simple Rules Co. c/o Jacy Jiaming Li

Re: <u>C-08950</u>

To Whom It May Concern:

The enclosed subpoena has been issued pursuant to a formal order entered by the United States Securities and Exchange Commission. Pursuant to Rule 8 of the United States Securities and Exchange Commission's Rules Relating to Investigations, 17 C.F.R. § 203.8, I have enclosed a subpoena for documents issued to Simple Rules Co. in connection with the above-referenced investigation.

This is a federal civil law enforcement investigation and you must produce all documents described in the attached subpoena. The enclosed subpoena requires Simple Rules Co. to produce documents to the SEC by March 11, 2024 to:

ENF-CPU U.S. Securities and Exchange Commission 14420 Albemarle Point Place, Suite 102 Chantilly, VA 20151-1750

For smaller electronic productions under 10MB in size, the materials may be emailed to the following email address: <u>ENF-CPU@sec.gov</u>.

Please also provide a duplicate copy of any document production cover letters to me at (b)(6); (b)(7)(C) at (b)(6); (b)(6); (b)(6); (b)(7)(C) at (b)(6); (b

Please carefully read the subpoena attachment, which contains, among other things, important instructions related to the manner of producing documents. In particular, if Simple Rules Co. prefers to send us copies of original documents, the staff requests that you scan and

produce hard copy documents, as well as electronic documents, in an electronic format consistent with the SEC Data Delivery Standards attached hereto. All electronic documents responsive to the subpoena, including all metadata, should also be produced in their native software format. If you have any questions concerning the production of documents in an electronic format, please contact me as soon as possible and in any event before producing documents. For security reasons, we strongly encourage the encryption of sensitive documents before production.

When producing the records, please consecutively number and mark each document produced with a symbol that identifies it as being produced by Simple Rules Co. and provide an index which briefly identifies the documents produced.

In your cover letter(s) accompanying the production of responsive documents, please enclose a list briefly describing each item you send. The list should identify the paragraph(s) in the subpoena attachment to which each item responds. Please also state in the cover letter(s) whether you believe Simple Rules Co. has met the obligations of the subpoena by searching carefully and thoroughly for everything called for by the subpoena and sending it all to us.

A copy of the subpoena should be included with the documents that are produced. Correspondence should reference case number and requesting SEC staff member.

Passwords for documents, files, compressed archives, and encrypted media should be provided separately either via email addressed to ENF-CPU@sec.gov, or in a separate cover letter mailed separately from the data. Password correspondence should reference case number and requesting SEC staff member.

In addition, for any documents that qualify as records of regularly conducted activities under Federal Rule of Evidence 902(11), please have the appropriate representative(s) of Simple Rules Co. complete a business records certification (a sample of which is enclosed) and return it with the document production. Execution of this certification may allow the Commission to introduce the documents provided by Simple Rules Co. in any subsequent judicial proceeding, without requiring the testimony of a records custodian.

Enclosed is a copy of the Commission's Form 1662, entitled "Supplemental Information for Persons Requested to Supply Information Voluntarily or Directed to Supply Information Pursuant to a Commission Subpoena." This form explains how we may use the information which Simple Rules Co. provides to the Commission and has other important information. Please provide a copy of this form to Simple Rules Co.

This investigation is a non-public, fact-finding inquiry. We are trying to determine whether there have been any violations of the federal securities laws. The investigation does not mean that we have concluded that anyone has violated the law. Also, the investigation does not mean that we have a negative opinion of any person, entity, or security.

If you have any questions or would like to discuss this matter, you may contact me at (b)(6); (b)(7)(C) iĝsec.gov.

Sincerely,	
(b)(6); (b)(7)(C)	
Division of Enforcement	
(b)(6); (b)(7)(C) @sec.gov	

Enclosures: Subpoena and Attachment

Business Records Certification SEC Data Delivery Standards SEC Form 1662



SUBPOENA

UNITED STATES OF AMERICA SECURITIES AND EXCHANGE COMMISSION

C-08950

To:	Simple Rules Co. c/o Jacy Jiaming Li b)(6); (b)(7)(C)	
	YOU MUST PRODUCE everything specified in the Attachment to this subpoena to officers of the Securitand Exchange Commission, at the place, date and time specified below:	rities

ENF-CPU, U.S. Securities and Exchange Commission, 14420 Albemarle Point Place, Suite 102 Chantilly, VA 20151-1750, no later than March 11, 2024.

YOU MUST TESTIFY before officers of the Securities and Exchange Commission, at the place, date and time specified below:

FEDERAL LAW REQUIRES YOU TO COMPLY WITH THIS SUBPOENA.

If you do not comply with this subpoena, the SEC may bring an action in Federal Court to enforce this subpoena. Failure to comply with a court order enforcing this subpoena may result in the court imposing a fine, imprisonment, or both.

D.,,	(b)(6); (b)(7)(C)	Date:	February 26, 2024
<i>D</i> _j .		Date.	1 cordary 20, 2024

U.S. Securities and Exchange Commission New York Regional Office 100 Pearl Street, Suite 20-100 New York, NY 10004-2616

I am an officer of the U.S. Securities and Exchange Commission authorized to issue subpoenas in this matter. The Securities and Exchange Commission has issued a formal order authorizing this investigation under Section 20(a) of the Securities Act of 1933.

NOTICE TO WITNESS: If you claim a witness fee or mileage, submit this subpoena with the claim voucher.

SUBPOENA ATTACHMENT FOR SIMPLE RULES CO. C-08950

February 26, 2024

Definitions

As used in this subpoena, the words and phrases listed below shall have the following meanings:

- 1. "Relevant Period" means July 1, 2018 to the present.
- 2. "Harmony" means the entity doing business under the name Harmony ONE or Simple Rules Co. including parents, subsidiaries, affiliates, predecessors, successors, officers, directors, employees, agents, general partners, limited partners, partnerships and aliases, code names, or trade or business names used by any of the foregoing.
- 3. The "Ethereum Foundation" means the entity or business doing business under the name Ethereum Foundation, including, but not limited to, ethereum.org, the Ethereum Support Program, and parents, subsidiaries, affiliates, predecessors, successors, officers, directors, employees, agents, general partners, limited partners, partnerships and aliases, owners, code names, or trade or business names used by any of the foregoing.
- 4. "The Merge" or "Ethereum 2.0" means the transition by the Ethereum blockchain of its consensus mechanism from proof-of-work to proof-of-stake.
- 5. "Beacon Chain" means the original proof-of-stake blockchain that was launched in 2020 that ran alongside the original proof-of-work Ethereum blockchain.
- 6. "Document" shall include, but is not limited to, any written, printed, or typed matter including, but not limited to all drafts and copies bearing notations or marks not found in the original, letters and correspondence, interoffice communications, slips, tickets, records, worksheets, financial records, accounting documents, bookkeeping documents, memoranda, reports, manuals, telephone logs, facsimiles, messages of any type, telephone messages, text messages, voice mails, tape recordings, notices, instructions, minutes, summaries, notes of meetings, file folder markings, and any other organizational indicia, purchase orders, information recorded by photographic process, including microfilm and microfiche, computer printouts, spreadsheets, and other electronically stored information, including writings, drawings, graphs, charts, photographs, sound recordings, images, and other data or data compilations that are stored in any medium from which information can be retrieved, obtained, manipulated, or translated.
- 7. "Communication" means any correspondence, contact, discussion, e-mail, instant message, or any other kind of oral or written exchange or transmission of information (in the form of facts, ideas, inquiries, or otherwise), including but not limited to those made on Social Media Services, and any response thereto between two or more Persons or entities, including, without limitation, all telephone conversations, face-to-face meetings

or conversations, internal or external discussions, or exchanges of a Document or Documents.

- 8. "Concerning" means directly or indirectly, in whole or in part, describing, constituting, evidencing, recording, evaluating, substantiating, concerning, referring to, alluding to, in connection with, commenting on, relating to, regarding, discussing, showing, analyzing or reflecting.
- 9. "Agreement" means any actual or contemplated (i) written or oral Agreement; (ii) term or provision of such Agreement; or (iii) amendment of any nature or termination of such Agreement. A request for any Agreement among or between specified parties includes a request for all Documents Concerning (i) any actual or contemplated Agreement among or between such parties, whether or not such Agreement included any other Person; (ii) the drafting or negotiation of any such Agreement; (iii) any actual or contemplated demand, request or application for any such Agreement, and any response thereto; and (iv) any actual or contemplated objection or refusal to enter into any such Agreement, and any response thereto.
- 10. "Bank or Financial Account" means the domestic or foreign bank, brokerage, or financial accounts held, controlled, or used by you or by other people on your behalf. This includes, but is not limited to, accounts that contain currency, securities, or crypto assets.
- 11. "Person" means a natural person, firm, association, organization, partnership, business, trust, corporation, bank or any other private or public entity.
- 12. The term "you" and "your" means the Person to whom or entity to which this subpoena was issued.
- 13. To the extent necessary to bring within the scope of this this subpoena any information or Documents that might otherwise be construed to be outside its scope:
 - a. the word "or" means "and/or";
 - b. the word "and" means "and/or";
 - c. the functional words "each," "every" "any" and "all" shall each be deemed to include each of the other functional words;
 - d. the masculine gender includes the female gender and the female gender includes the masculine gender; and
 - e. the singular includes the plural and the plural includes the singular.

Instructions

1. Unless otherwise specified, this subpoena calls for production of the original Documents and all copies and drafts of same. Documents responsive to this subpoena may be in electronic or paper form. Electronic Documents such as email should be produced in accordance with the attached Document entitled SEC Data Delivery Standards. All responsive electronic Documents, including all metadata, should also be produced in their

native software format.

- 2. For Documents in paper format, you may send the originals, or, if you prefer, you may send copies of the originals. The Commission cannot reimburse you for the copying costs. If you are sending copies, the staff requests that you scan (rather than photocopy) hard copy Documents and produce them in an electronic format consistent with the SEC Data Delivery Standards. Alternatively, you may send us photocopies of the Documents in paper format. If you choose to send copies, you <u>must</u> secure and retain the originals and store them in a safe place. The staff may later request or require that you produce the originals.
- 3. Whether you scan or photocopy Documents, the copies must be identical to the originals, including even faint marks or print. Also, please note that if copies of a Document differ in any way, they are considered separate Documents and you must send each one. For example, if you have two copies of the same letter, but only one of them has handwritten notes on it, you must send both the clean copy and the one with notes.
- 4. In producing a photocopy of an original Document that contains post-it(s), notation flag(s), or other removable markings or attachments which may conceal all or a portion of the markings contained in the original Document, photocopies of the original Document both with and without the relevant post-it(s), notation flag(s), or removable markings or attachments should be produced.
- 5. Documents should be produced as they are kept in the ordinary course of business or be organized and labeled to correspond with the categories in this request. In that regard, Documents should be produced in a unitized manner, i.e., delineated with staples or paper clips to identify the Document boundaries.
- 6. Documents should be labeled with sequential numbering (bates-stamped).
- 7. The scope of any given request should not be limited or narrowed on the basis that it calls for Documents that are responsive to another request.
- 8. This subpoena covers all Documents in or subject to your possession, custody or control, including all Documents that are not in your immediate possession but that you have the effective ability to obtain, that are responsive, in whole or in part, to any of the individual requests set forth below. If, for any reason—including a claim of attorney-client privilege you do not produce something called for by the request, you should submit a list of what you are not producing. The list should describe each item separately, noting:
 - a. its author(s);
 - b. its date;
 - c. its subject matter;
 - d. the name of the Person who has the item now, or the last Person known to have it;
 - e. the names of everyone who ever had the item or a copy of it, and the names of everyone who was told the item's contents;
 - f. the basis upon which you are not producing the responsive Document;

- g. the specific request in the subpoena to which the Document relates;
- h. the attorney(s) and the client(s) involved; and
- i. in the case of the work product doctrine, the litigation for which the Document was prepared in anticipation.
- 9. If Documents responsive to this subpoena no longer exist because they have been lost, discarded, or otherwise destroyed, you should identify such Documents and give the date on which they were lost, discarded, or destroyed.

Documents to be Immediately Preserved and Produced

- 1. All Agreements between Harmony and the Ethereum Foundation;
- 2. All Documents and Communications Concerning any grant or other source of funding received from the Ethereum Foundation;
- 3. All Documents and Communications Concerning any work conducted by Harmony pursuant to any grant or other source of funding received from the Ethereum Foundation;
- 4. Documents sufficient to identify Harmony's crypto asset wallet addresses or Bank or Financial Accounts, located within or outside the U.S., that received any grant or other source of funding from the Ethereum Foundation, as well as the amount of crypto assets or fiat received;
- 5. Documents sufficient to identify all meetings with the Ethereum Foundation, including any Documents related to the meetings identified;
- 6. All Communications with the Ethereum Foundation, including, but not limited to, Communications with board members, consultants, officers, directors, employees, developers, coders, and others performing work on behalf of these entities, related to The Merge or the Beacon Chain.

DECLARATION OF [Insert Name] CERTIFYING RECORDS OF REGULARLY CONDUCTED BUSINESS ACTIVITY

I, the undersigned, [insert name], pursuant to 28 U.S.C. § 1746, declare that:

- 1. I am employed by Simple Rules Co. as [insert position] and by reason of my position am authorized and qualified to make this declaration. [if possible supply additional information as to how person is qualified to make declaration, e.g., I am custodian of records, I am familiar with the company's recordkeeping practices or systems, etc.]
- 2. I further certify that the documents [attached hereto or submitted herewith] and stamped [insert bates range] are true copies of records that were:
 - (a) made at or near the time of the occurrence of the matters set forth therein, by, or from information transmitted by, a person with knowledge of those matters;
 - (b) kept in the course of regularly conducted business activity; and
 - (c) made by the regularly conducted business activity as a regular practice.

I declare under penalty of perjury that the foregoing is true and correct. Executed on [date].

[Name]	



U.S. Securities and Exchange Commission

Data Delivery Standards

This document describes the technical requirements for paper and electronic document productions to the U.S. Securities and Exchange Commission (SEC). **Any questions or proposed file formats other than those described below must be discussed with the legal and technical staff of the SEC Division of Enforcement prior to submission. **

eneral Instructions	
elivery Formats	. 2
I. Imaged Productions	3
1. Images	3
2. Image Cross-Reference File	
3. Data File	
4. Text	. 3
5. Linked Native Files	
II. Native File Productions without Load Files	
III. Adobe PDF File Productions	. 4
IV. Audio Files	. 4
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VI. Electronic Trade and Bank Records	. 4
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VIII. Audit Workpapers	5
IX. Mobile Device Data	

General Instructions

The current mailing address for all physical productions sent to the SEC is:

ENF-CPU (U.S. Securities & Exchange Commission), 14420 Albemarle Point Place, Suite 102, Chantilly, VA 20151-1750

Electronic files must be produced in their native format, i.e. the format in which they are ordinarily used and maintained during the normal course of business. For example, an MS Excel file must be produced as an MS Excel file rather than an image of a spreadsheet. (Note: An Adobe PDF file is not considered a native file unless the document was initially created as a PDF.)

In the event produced files require the use of proprietary software not commonly found in the workplace, the SEC will explore other format options with the producing party.

The proposed use of file de-duplication methodologies or computer-assisted review or technology-assisted review (TAR) during the processing of documents must be discussed with and approved by the legal and technical staff of the Division of Enforcement (ENF). If your production will be de-duplicated it is vital that you 1) preserve any unique metadata associated with the duplicate files, for example, custodian name and file location and, 2) make that unique metadata part of your production to the SEC.

General requirements for ALL document productions are:

- 1. A cover letter must be included with each production and should include the following information:
 - a. Case number, ease name and requesting SEC staff member name
 - b. A list of each piece of media included in the production with its unique production volume number
 - c. A list of custodians, identifying the Bates range for each custodian
 - d. A list of redacted documents and the redaction reason
 - c. The time zone in which the emails were standardized during conversion
 - f. Whether the production contains native files produced from Mac operating system environments
- Data can be produced on CD, DVD, thumb drive, etc., using the media requiring the least number of deliverables and labeled with the following:
 - a. Case number
 - b. Production date
 - c. Producing party
 - d. Bates range (if applicable)
- All submissions must be organized by custodian unless otherwise instructed.
- 4. All document family groups, i.e. email attachments, embedded files, etc., should be produced together and children files should follow parent files sequentially in the Bates numbering.
- 5. All load-ready collections should include only one data load file and one image pointer file.
- 6. All load-ready text must be produced as separate document-level text files.
- 7. All load-ready collections should account for custodians in the custodian field.
- All load-ready collections must provide the extracted contents of any container files to ensure all relevant files are produced as separate records.
- 9. Audio files should be separated from data files if both are included in the production.
- 10. Only alphanumeric characters and the underscore character are permitted in file names and folder names. Special characters are not permitted.
- 11. All electronic productions submitted on media must be produced using industry standard self-extracting encryption software.
- 12. The SEC uses 7zip to access compressed files. Note that the SEC cannot accept files that use AES-256 Jpeg or pkAES-256-Cert Deflate compression methods, even if the files are created with 7zip. If you have any questions or need additional information, please reach out to the requesting SEC staff member.
- 13. Electronic productions of 30 GB or less are strongly encouraged to be submitted via Secure File Transfer. All Secure File Transfers should be sent to the SEC Centralized Production Unit (ENF-CPU@sec.gov) with a CC to the requesting SEC staff member. If you do not have your own Secure File Transfer application, you may reach out to the requesting SEC staff member for a link to the SEC system in order to upload your production. If using the SEC Secure File Transfer system, you will NOT be able to CC individuals outside the SEC on your upload transmission. Note that the SEC cannot accept productions made using file sharing sites such as Google Drive or Microsoft Office 365.
- 14. Productions containing BSA or SAR material must be encrypted. Secure File Transfer applications may be used to produce BSA or SAR material. BSA or SAR material should be segregated and appropriately marked as BSA or SAR, or should be produced separately from other case related records.
- 15. Passwords for electronic documents, files, compressed archives and encrypted media must be provided separately either via email or in a cover letter apart from the media.
- 16. All electronic productions should be produced free of computer viruses.
- 17. Before producing forensically collected images, parties should reach out to the requesting SEC staff member in order to discuss appropriate handling.
- 18. Before producing unique data sets (large sets of relational data, website reconstruction, chat room data, etc.), parties should reach out to the requesting SEC staff member in order to discuss an appropriate production format.
- Additional technical descriptions can be found in the addendum to this document.

Please note that productions sent to the SEC via United States Postal Service are subject to Mail Irradiation, and as a result electronic productions may be damaged.

Delivery Formats

Imaged Productions

The SEC prefers that all scanned paper and electronic file collections be produced in a structured format including industry standard load files, Bates numbered image files, native files and searchable document-level text files. Bates numbers should not contain spaces. Hyphens (-) and underscores (-) are acceptable.

1. Images

- Black and white images must be 300 DPI Group IV single-page TIFF files
- b. Color images must be produced in JPEG format
- File names cannot contain embedded spaces or special characters (including the comma)
- d. Folder names cannot contain embedded spaces or special characters (including the comma)
- e. All image files must have a unique file name, i.e. Bates number
- f. Images must be endorsed with sequential Bates numbers in the lower right corner of each image
- The number of image files per folder should not exceed 2,000 files g.
- h. Excel spreadsheets should have a placeholder image named by the Bates number of the file
- AUTOCAD/photograph files should be produced as a single page JPEG file

2. Image Cross-Reference File

The image cross-reference file (LOG or .OPT) links the images to the database records. It should be a comma-delimited file consisting of seven fields per line with a line in the cross-reference file for every image in the database with the following format:

ImageID, VolumeLabel, ImageFilePath, DocumentBreak, FolderBreak, BoxBreak, PageCount

3. Data File

The data file (.DAT) contains all of the fielded information that will be loaded into the database.

- The first line of the .DAT file must be a header row identifying the field names
- The .DAT file must use the following *Concordance*® default delimiters:

Comma ¶ ASCII character (020)

Quote b ASCII character (254)

- c. If the .DAT file is produced in Unicode format it must contain the byte order marker
- d. Date fields should be provided in the format: mm/dd/yyyy
- Date and time fields must be two separate fields
- The time zone must be included in all time fields f.
- If the production includes imaged emails and attachments, the attachment fields must be included to preserve the parent/child relationship between an email and its attachments
- An OCRPATH field must be included to provide the file path and name of the extracted text file on the produced storage media. The text file must be named after the FIRSTBATES. Do not include the text in the .DAT file.
- For productions with native files, a LINK field must be included to provide the file path and name of the native file on the produced storage media. The native file must be named after the FIRSTBATES.
- BEGATTACH and ENDATTACH fields must be two separate fields
- A complete list of metadata fields is available in Addendum A to this document

4. Text

Text must be produced as separate document-level text files, not as fields within the .DAT file. The text files must be named per the FIRSTBATES/Image Key and the full path to the text file (OCRPATII) should be included in the .DAT file. Text files may be in either ANSI or Unicode format, however, ALL text files must be in the same format within the same production. Note that productions containing text with foreign characters must produce text files in Unicode format to preserve the foreign characters. Text files must be in a separate folder, and the number of text files per folder should not exceed 2,000 files. There should be no special characters (including commas) in the folder names. For redacted documents, provide the full text for the redacted version.

Linked Native Files

Copies of original email and native file documents/attachments must be included for all electronic productions.

- a. Native file documents must be named per the FIRSTBATES number
- b. The full path of the native file must be provided in the .DAT file for the LINK field
- The number of native files per folder should not exceed 2,000 files

II. Native File Production without Load Files

With prior approval, native files may be produced without load files. Native file productions should not be Bates numbered. Native files must be produced as they are maintained in the normal course of business and organized by custodian-named file folders. Native email files (.PST or .MBOX) must be separated by custodian.

III. Adobe PDF File Production

With prior approval, Adobe PDF files may be produced in native file format.

- 1. All PDFs must be unitized at the document level, i.e. each PDF must represent a discrete document.
- 2. PDF files should be produced in separate folders named by the custodian. The folders should not contain any special characters (including commas).
- 3. All PDF files must contain embedded text that includes all discernible words within the document, not selected text or image only. This requires all layers of the PDF to be flattened first.
- 4. If PDF files are Bates endorsed, the PDF files must be named by the Bates range.

IV. Audio Files

Audio files from telephone recording systems must be produced in a format that is playable using Microsoft Windows Media PlayerTM. Additionally, the call information (metadata) related to each audio recording MUST be provided. The metadata file must be produced in a delimited text format. Field names must be included in the first row of the text file. The metadata must include, at a minimum, the following fields:

1) Caller Name: Caller's name or account/identification number

2) Originating Number: Caller's phone number3) Called Party Name: Called party's name

4) Terminating Number: Called party's phone number

5) Date: Date of call
6) Time: Time of call

7) Filename: Filename of audio file

V. Video Files

Video files must be produced in a format that is playable using Microsoft Windows Media PlayerTM.

VI. Electronic Trade and Bank Records

When producing electronic trade records, bank records, or financial statements, provide the files in one of the following formats:

- 1. MS Excel spreadsheet with header information detailing the field structure. If any special codes exist in the dataset, a separate document must be provided that details all such codes. If details of the field structure do not fit in the header, a separate document must be provided that includes such details.
- 2. Delimited text file with header information detailing the field structure. The preferred delimiter is a vertical bar "|". If any special codes exist in the dataset, a separate document must be provided that details all such codes. If details of the field structure do not fit in the header, a separate document must be provided that includes such details.

VII. Electronic Phone Records

When producing an MS Excel spreadsheet for electronic phone records, provide the files in the following format:

- 1. MS Excel spreadsheet with header information detailing the field structure. If any special codes exist in the dataset, a separate document must be provided that details all such codes. If details of the field structure do not fit in the header, a separate document must be provided that includes such details. Data must be formatted in its native format (i.e. dates in a date format, numbers in an appropriate numerical format, and numbers with leading zeroes as text).
 - a. The metadata that must be included is outlined in **Addendum B** of this document. Each field of data must be loaded into a separate column. For example, Date and Start_Time must be produced in separate columns and not combined into a single column containing both pieces of information. Any fields of data that are provided in addition to those listed in **Addendum B** must also be loaded into separate columns.

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Data Delivery Standards

VIII. Audit Workpapers

The SEC prefers for workpapers to be produced in two formats: (1) With Bates numbers in accordance with the SEC Data Delivery Standards; and (2) in native format via laptop computer, web-based viewing platform, or otherwise, allowing for viewing in the same format and organization as the firm's audit team. Prior to production of workpapers via laptop computer or web-based viewing platform, audit firms should contact the requesting SEC staff member for additional information and written agreements addressing use of software, access, and viewing protocols.

IX. Mobile Device Data

Before producing any mobile device data (including but not limited to text messages and application data) parties should reach out to the requesting SEC staff member in order to discuss the appropriate production format. Productions containing chat data from applications must be identified at the time of production and the following information must be provided to the requesting SEC staff member and the SEC Centralized Production Unit: chat application, chat data format, and how the length of a chat is determined (i.e. set duration of time, number of minutes without messages, etc.)

ADDENDUM A

The metadata of electronic document collections should be extracted and provided in a .DAT file using the field definition and formatting described below:

Field Name	Sample Data	Description
FIRSTBATES	EDC0000001	First Bates number of native file document/email
LASTBATES	EDC0000001	Last Bates number of native file document/email
		**The LASTBATES field should be populated
		for single page documents/emails.
ATTACHRANGE	EDC0000001 - EDC0000015	Bates number of the first page of the parent
		document to the Bates number of the last page of the
		last attachment "child" document
BEGATTACH	EDC0000001	First Bates number of attachment range
ENDATTACH	EDC0000015	Last Bates number of attachment range
PARENT_BATES	EDC0000001	First Bates number of parent document/Email **This PARENT_BATES field should be populated in each record representing an attachment "child" document
CHILD BATES	EDC0000002; EDC0000014	First Bates number of "child" attachment(s); can be
_		more than one Bates number listed depending on the
		number of attachments
		**The CHILD_BATES field should be populated in
		each record representing a "parent" document
CUSTODIAN	Smith, John	Email: Mailbox where the email resided
		Native: Name of the individual or department from
		whose files the document originated
FROM	John Smith	Email: Sender
		Native: Author(s) of document
		**semi-colon should be used to separate multiple entries
TO	Coffman, Janice; LeeW	Recipient(s)
	[mailto:LecW@MSN.com]	**semi-colon should be used to separate multiple entries
CC	Frank Thompson [mailto:	Carbon copy recipient(s)
	frank_Thompson@cdt.com]	**semi-colon should be used to separate multiple
	Trank_Thompson@edi.eom	entries
BCC	John Cain	Blind carbon copy recipient(s)
		**semi-colon should be used to separate multiple
		entries
SUBJECT	Board Meeting Minutes	Email: Subject line of the email
		Native: Title of document (if available)
FILE_NAME	BoardMeetingMinutes.docx	Native: Name of the original native file, including
		extension
DATE_SENT	10/12/2010	Email: Date the email was sent
		Native: (empty)
TIME_SENT/TIME	07:05 PM GMT	Email: Time the email was sent/ Time zone in which
_ZONE		the emails were standardized during conversion.
		Native: (empty)
		**This data must be a separate field and cannot be
TIME ZONE	CMT	combined with the DATE_SENT field
TIME_ZONE	GMT	The time zone in which the emails were standardized
		during conversion. Email: Time zone
		Native: (empty)
		racivos (empsy)

LINK	D:\001\EDC0000001.msg	Hyperlink to the email or native file document **The linked file must be named per the FIRSTBATES number
MIME_TYPE	application/msword	The content type of an email or native file document as identified/extracted from the header
FILE_EXTEN	MSG	The file type extension representing the email or native file document; will vary depending on the format
AUTHOR	John Smith	Email: (empty) Native: Author of the document
LAST_AUTHOR	Jane Doe	Email: (empty) Native: Last Author of the document
DATE_CREATED	10/10/2010	Email: (empty) Native: Date the document was created
TIME_CREATED/T IME_ZONE	10:25 AM GMT	Email: (empty) Native: Time the document was created including time zone **This data must be a separate field and cannot be combined with the DATE_CREATED field
DATE_MOD	10/12/2010	Email: (empty) Native: Date the document was last modified
TIME_MOD/TIME_ ZONE	07:00 PM GMT	Email: (empty) Native: Time the document was last modified including the time zone **This data must be a separate field and cannot be combined with the DATE_MOD field
DATE_ACCESSD	10/12/2010	Email: (empty) Native: Date the document was last accessed
TIME_ACCESSD/T IME_ZONE	07:00 PM GMT	Email: (empty) Native: Time the document was last accessed including the time zone **This data must be a separate field and cannot be combined with the DATE_ACCESSD field
PRINTED_DATE	10/12/2010	Email: (empty) Native: Date the document was last printed
FILE_SIZE	5,952	Size of native file document/email in KB
PGCOUNT	1	Number of pages in native file document/email
PATH	J:\Shared\SmithJ\October Agenda.doc	Email: (empty) Native: Path where native file document was stored including original file name.
INTFILEPATH	Personal Folders\Deleted Items\Board Meeting Minutes.msg	Email: original location of email including original file name. Native: (empty)
INTMSGID	<000805c2c71bS75977050Scb 8306d1@MSN>	Email: Unique Message ID Native: (empty)

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HEADER	Return-Path: <example_from@dc.edu> X-SpamCatcher-Score:1[X] Received:from[136.167.40.119] (HELO dc.edu) by fe3.dc.edu (CommuniGate Pro SMTP4.1.8) with ESMTP-TLS id 61258719 for example_to@mail.dc.edu; Mon, 23 Aug 2004 11:40:10 - 0400 Message-ID: <<4129F3CA.2020509@dc.edu> Date: Mon, 23 Aug 2005 11:40:36 -400 From: Taylor Evans <example_from@dc.edu> User-Agent:Mozilla/5.0 (Windows;U; Windows NT 5.1: en-US;rv:1.0.1) Gecko/20020823 Netscape/7.0 X-Accept-Language:en-us,en MIME-Version:1.0 To: Jon Smith <example_to@mail.dc.edu> Subject:Business Development Meeting Content-Type: text/plain;charset=us-ascii; format=flowed Content-Transfer-Encoding:7bit</example_to@mail.dc.edu></example_from@dc.edu></example_from@dc.edu>	
SHA256	AD6128C5CA40164AF71A1E FC800E12D2F195CE07BB5F8 C813B0888A2DDE6A06F	SHA-256 hash value of the document.
OCRPATH	TEXT/001/EDC0000001.txt	Path to extracted text of the native file

Sample Image Cross-Reference File:

IMG000001,,E:\001\IMG0000001.TIF,Y,,,
IMG0000002,,E:\001\IMG0000002.TIF,,,,
IMG0000003,,E:\001\IMG0000003.TIF,,,,
IMG0000004,,E:\001\IMG0000005.TIF,Y,,,
IMG0000005,,E:\001\IMG0000005.TIF,Y,,,
IMG0000006,,E:\001\IMG0000006.TIF,,,,,

ADDENDUM B

For Electronic Phone Records, include the following fields in separate columns:

For Calls:

- 1) Account Number
- 2) Connection Date Date the call was received or made
- 3) Connection Time Time call was received or made
- 4) Seizure Time Time it took for the call to be placed in seconds
- 5) Originating Number Phone that placed the call
- 6) Terminating Number Phone that received the call
- 7) Elapsed Time The length of time the call lasted, preferably in seconds
- 8) End Time The time the call ended
- 9) Number Dialed Actual number dialed
- 10) IMEI Originating Unique id to phone used to make call
- 11) IMEI Terminating-Unique id to phone used to receive call
- 12) IMSI Originating Unique id to phone used to make call
- 13) IMSI Terminating- Unique id to phone used to receive call
- 14) Call Codes Identify call direction or other routing information
- 15) Time Zone Time Zone in which the call was received or placed, if applicable

For Text messages:

- 1) Account Number
- 2) Connection Date Date the text was received or made
- 3) Connection Time Time text was received or made
- 4) Originating Number Who placed the text
- 5) Terminating Number Who received the text
- 6) IMEI Originating Unique id to phone used to make text
- 7) IMEI Terminating—Unique id to phone used to receive text
- 8) IMSI Originating Unique id to phone used to make text
- 9) IMSI Terminating- Unique id to phone used to receive text
- 10) Text Code Identify text direction, or other text routing information
- 11) Text Type Code Type of text message (sent SMS, MMS, or other)
- 12) Time Zone Time Zone in which the call was received or placed, if applicable

For Mobile Data Usage:

- 1) Account Number
- Connection Date Date the data was received or made
- 3) Connection Time Time data was received or made
- 4) Originating number Number that used data
- 5) IMEI Originating Unique id of phone that used data
- 6) IMSI Originating Unique id of phone that used data
- 7) Data or Data codes Identify data direction, or other data routing information
- 8) Time Zone Time Zone in which the call was received or placed, if applicable

SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549

Supplemental Information for Persons Requested to Supply Information Voluntarily or Directed to Supply Information Pursuant to a Commission Subpoena

A. False Statements and Documents

Section 1001 of Title 18 of the United States Code provides that fines and terms of imprisonment may be imposed upon:

[W]hoever, in any matter within the jurisdiction of the executive, legislative, or judicial branch of the Government of the United States, knowingly and willfully--

- (1) falsifies, conceals, or covers up by any trick, scheme, or device a material fact;
- (2) makes any materially false, fictitious, or fraudulent statement or representation; or
- (3) makes or uses any false writing or document knowing the same to contain any materially false, fictitious, or fraudulent statement or entry.

Section 1519 of Title 18 of the United States Code provides that fines and terms of imprisonment may be imposed upon:

Whoever knowingly alters, destroys, mutilates, conceals, covers up, falsifies, or makes a false entry in any record, document, or tangible object with the intent to impede, obstruct, or influence the investigation or proper administration of any matter within the jurisdiction of any department or agency of the United States . . ., or in relation to or contemplation of any such matter.

B. Testimony

If your testimony is taken, you should be aware of the following:

- 1. Record. Your testimony will be transcribed by a reporter. If you desire to go off the record, please indicate this to the Commission employee taking your testimony, who will determine whether to grant your request. The reporter will not go off the record at your, or your counsel's, direction.
- 2. Counsel. You have the right to be accompanied, represented and advised by counsel of your choice. Your counsel may advise you before, during and after your testimony; question you briefly at the conclusion of your testimony to clarify any of the answers you give during testimony; and make summary notes during your testimony solely for your use. If you are accompanied by counsel, you may consult privately.

If you are not accompanied by counsel, please advise the Commission employee taking your testimony if, during the testimony, you desire to be accompanied, represented and advised by counsel. Your testimony will be adjourned once to afford you the opportunity to arrange to be so accompanied, represented or advised.

You may be represented by counsel who also represents other persons involved in the Commission's investigation. This multiple representation, however, presents a potential conflict of interest if one client's interests are or may be adverse to another's. If you are represented by counsel who also represents other persons involved in the investigation, the Commission will assume that you and counsel have discussed and resolved all issues concerning possible conflicts of interest. The choice of counsel, and the responsibility for that choice, is yours.

3. Transcript Availability. Rule 6 of the Commission's Rules Relating to Investigations, 17 CFR 203.6, states:

A person who has submitted documentary evidence or testimony in a formal investigative proceeding shall be entitled, upon written request, to procure a copy of his documentary evidence or a transcript of his testimony on payment of the appropriate fees: *Provided, however*, That in a nonpublic formal investigative proceeding the Commission may for good cause deny such request. In any event, any witness, upon proper identification, shall have the right to inspect the official transcript of the witness' own testimony.

If you wish to purchase a copy of the transcript of your testimony, the reporter will provide you with a copy of the appropriate form. Persons requested to supply information voluntarily will be allowed the rights provided by this rule.

4. *Perjury.* Section 1621 of Title 18 of the United States Code provides that fines and terms of imprisonment may be imposed upon:

Whoever--

(1) having taken an oath before a competent tribunal, officer, or person, in any case in which a law of the United States authorizes an oath to be administered, that he will testify, declare,

depose, or certify truly, or that any written testimony, declaration, deposition, or certificate by him subscribed, is true, willfully and contrary to such oath states or subscribes any material matter which he does not believe to be true; or

- (2) in any declaration, certificate, verification, or statement under penalty of perjury as permitted under section 1746 of title 28, United States Code, willfully subscribes as true any material matter which he does not believe to be true.
- 5. Fifth Amendment and Voluntary Testimony. Information you give may be used against you in any federal, state, local or foreign administrative, civil or criminal proceeding brought by the Commission or any other agency.

You may refuse, in accordance with the rights guaranteed to you by the Fifth Amendment to the Constitution of the United States, to give any information that may tend to incriminate you.

If your testimony is not pursuant to subpoena, your appearance to testify is voluntary, you need not answer any question, and you may leave whenever you wish. Your cooperation is, however, appreciated.

6. Formal Order Availability. If the Commission has issued a formal order of investigation, it will be shown to you during your testimony, at your request. If you desire a copy of the formal order, please make your request in writing.

C. Submissions and Settlements

Rule 5(c) of the Commission's Rules on Informal and Other Procedures, 17 CFR 202,5(c), states:

Persons who become involved in . . . investigations may, on their own initiative, submit a written statement to the Commission setting forth their interests and position in regard to the subject matter of the investigation. Upon request, the staff, in its discretion, may advise such persons of the general nature of the investigation, including the indicated violations as they pertain to them, and the amount of time that may be available for preparing and submitting a statement prior to the presentation of a staff recommendation to the Commission for the commencement of an administrative or injunction proceeding. Submissions by interested persons should be forwarded to the appropriate Division Director or Regional Director with a copy to the staff members conducting the investigation and should be clearly referenced to the specific investigation to which they relate. In the event a recommendation for the commencement of an enforcement proceeding is presented by the staff, any submissions by interested persons will be forwarded to the Commission in conjunction with the staff memorandum.

The staff of the Commission routinely seeks to introduce submissions made pursuant to Rule 5(c) as evidence in Commission enforcement proceedings, when the staff deems appropriate.

Rule 5(f) of the Commission's Rules on Informal and Other Procedures, 17 CFR 202.5(f), states:

In the course of the Commission's investigations, civil lawsuits, and administrative proceedings, the staff, with appropriate authorization, may discuss with persons involved the disposition of such matters by consent, by settlement, or in some other manner. It is the policy of the Commission, however, that the disposition of any such matter may not, expressly or impliedly, extend to any criminal charges that have been, or may be, brought against any such person or any recommendation with respect thereto. Accordingly, any person involved in an enforcement matter before the Commission who consents, or agrees to consent, to any judgment or order does so solely for the purpose of resolving the claims against him in that investigative, civil, or administrative matter and not for the purpose of resolving any criminal charges that have been, or might be, brought against him. This policy reflects the fact that neither the Commission nor its staff has the authority or responsibility for instituting, conducting, settling, or otherwise disposing of criminal proceedings. That authority and responsibility are vested in the Attorney General and representatives of the Department of Justice.

D. Freedom of Information Act

The Freedom of Information Act, 5 U.S.C. 552 (the "FOIA"), generally provides for disclosure of information to the public. Rule 83 of the Commission's Rules on Information and Requests, 17 CFR 200.83, provides a procedure by which a person can make a written request that information submitted to the Commission not be disclosed under the FOIA. That rule states that no determination as to the validity of such a request will be made until a request for disclosure of the information under the FOIA is received. Accordingly, no response to a request that information not be disclosed under the FOIA is necessary or will be given until a request for disclosure under the FOIA is received. If you desire an acknowledgment of receipt of your written request that information not be disclosed under the FOIA, please provide a duplicate request, together with a stamped, self-addressed envelope.

E. Authority for Solicitation of Information

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Persons Directed to Supply Information Pursuant to Subpoena. The authority for requiring production of information is set forth in the subpoena. Disclosure of the information to the Commission is mandatory, subject to the valid assertion of any legal right or privilege you might have.

Persons Requested to Supply Information Voluntarily. One or more of the following provisions authorizes the Commission to solicit the information requested: Sections 19 and/or 20 of the Securities Act of 1933; Section 21 of the Securities Exchange Act of 1934; Section 321 of the Trust Indenture Act of 1939; Section 42 of the Investment Company Act of 1940; Section 209 of the Investment Advisers Act of 1940; and 17 CFR 202.5. Disclosure of the requested information to the Commission is voluntary on your part.

F. Effect of Not Supplying Information

Persons Directed to Supply Information Pursuant to Subpoena. If you fail to comply with the subpoena, the Commission may seek a court order requiring you to do so. If such an order is obtained and you thereafter fail to supply the information, you may be subject to civil and/or criminal sanctions for contempt of court. In addition, Section 21(c) of the Securities Exchange Act of 1934, Section 42(c) of the Investment Company Act of 1940, and Section 209(c) of the Investment Advisers Act of 1940 provide that fines and terms of imprisonment may be imposed upon any person who shall, without just cause, fail or refuse to attend and testify or to answer any lawful inquiry, or to produce books, papers, correspondence, memoranda, and other records in compliance with the subpoena.

Persons Requested to Supply Information Voluntarily. There are no direct sanctions and thus no direct effects for failing to provide all or any part of the requested information.

G. Principal Uses of Information

The Commission's principal purpose in soliciting the information is to gather facts in order to determine whether any person has violated, is violating, or is about to violate any provision of the federal securities laws or rules for which the Commission has enforcement authority, such as rules of securities exchanges and the rules of the Municipal Securities Rulemaking Board. Facts developed may, however, constitute violations of other laws or rules. Information provided may be used in Commission and other agency enforcement proceedings. Unless the Commission or its staff explicitly agrees to the contrary in writing, you should not assume that the Commission or its staff acquiesces in, accedes to, or concurs or agrees with, any position, condition, request, reservation of right, understanding, or any other statement that purports, or may be deemed, to be or to reflect a limitation upon the Commission's receipt, use, disposition, transfer, or retention, in accordance with applicable law, of information provided.

H. Routine Uses of Information

The Commission often makes its files available to other governmental agencies, particularly United States Attorneys and state prosecutors. There is a likelihood that information supplied by you will be made available to such agencies where appropriate. Whether or not the Commission makes its files available to other governmental agencies is, in general, a confidential matter between the Commission and such other governmental agencies.

Set forth below is a list of the routine uses which may be made of the information furnished.

- 1. To appropriate agencies, entities, and persons when (1) the SEC suspects or has confirmed that there has been a breach of the system of records, (2) the SEC has determined that as a result of the suspected or confirmed breach there is a risk of harm to individuals, the SEC (including its information systems, programs, and operations), the Federal Government, or national security; and (3) the disclosure made to such agencies, entities, and persons is reasonably necessary to assist in connection with the SEC's efforts to respond to the suspected or confirmed breach or to prevent, minimize, or remedy such harm.
- 2. To other Federal, state, local, or foreign law enforcement agencies; securities self-regulatory organizations; and foreign financial regulatory authorities to assist in or coordinate regulatory or law enforcement activities with the SEC.
- 3. To national securities exchanges and national securities associations that are registered with the SEC, the Municipal Securities Rulemaking Board; the Securities Investor Protection Corporation; the Public Company Accounting Oversight Board; the Federal banking authorities, including, but not limited to, the Board of Governors of the Federal Reserve System, the Comptroller of the Currency, and the Federal Deposit Insurance Corporation; state securities regulatory agencies or organizations; or regulatory authorities of a foreign government in connection with their regulatory or enforcement responsibilities.
- 4. By SEC personnel for purposes of investigating possible violations of, or to conduct investigations authorized by, the Federal securities laws.
- 5. In any proceeding where the Federal securities laws are in issue or in which the Commission, or past or present members of its staff, is a party or otherwise involved in an official capacity.
- 6. In connection with proceedings by the Commission pursuant to Rule 102(e) of its Rules of Practice, 17 CFR 201.102(e).

- 7. To a bar association, state accountancy board, or other Federal, state, local, or foreign licensing or oversight authority; or professional association or self-regulatory authority to the extent that it performs similar functions (including the Public Company Accounting Oversight Board) for investigations or possible disciplinary action.
- 8. To a Federal, state, local, tribal, foreign, or international agency, if necessary to obtain information relevant to the SEC's decision concerning the hiring or retention of an employee; the issuance of a security clearance; the letting of a contract; or the issuance of a license, grant, or other benefit.
- 9. To a Federal, state, local, tribal, foreign, or international agency in response to its request for information concerning the hiring or retention of an employee; the issuance of a security clearance; the reporting of an investigation of an employee; the letting of a contract; or the issuance of a license, grant, or other benefit by the requesting agency, to the extent that the information is relevant and necessary to the requesting agency's decision on the matter.
- 10. To produce summary descriptive statistics and analytical studies, as a data source for management information, in support of the function for which the records are collected and maintained or for related personnel management functions or manpower studies; may also be used to respond to general requests for statistical information (without personal identification of individuals) under the Freedom of Information Act.
- 11. To any trustee, receiver, master, special counsel, or other individual or entity that is appointed by a court of competent jurisdiction, or as a result of an agreement between the parties in connection with litigation or administrative proceedings involving allegations of violations of the Federal securities laws (as defined in section 3(a)(47) of the Securities Exchange Act of 1934, 15 U.S.C. 78c(a)(47)) or pursuant to the Commission's Rules of Practice, 17 CFR 201.100 through 900 or the Commission's Rules of Fair Fund and Disgorgement Plans, 17 CFR 201.1100 through 1106, or otherwise, where such trustee, receiver, master, special counsel, or other individual or entity is specifically designated to perform particular functions with respect to, or as a result of, the pending action or proceeding or in connection with the administration and enforcement by the Commission of the Federal securities laws or the Commission's Rules of Practice or the Rules of Fair Fund and Disgorgement Plans.
- 12. To any persons during the course of any inquiry, examination, or investigation conducted by the SEC's staff, or in connection with civil litigation, if the staff has reason to believe that the person to whom the record is disclosed may have further information about the matters related therein, and those matters appeared to be relevant at the time to the subject matter of the inquiry.
- 13. To interns, grantees, experts, contractors, and others who have been engaged by the Commission to assist in the performance of a service related to this system of records and who need access to the records for the purpose of assisting the Commission in the efficient administration of its programs, including by performing clerical, stenographic, or data analysis functions, or by reproduction of records by electronic or other means. Recipients of these records shall be required to comply with the requirements of the Privacy Act of 1974, as amended, 5 U.S.C.
- 14. In reports published by the Commission pursuant to authority granted in the Federal securities laws (as such term is defined in section 3(a)(47) of the Securities Exchange Act of 1934, 15 U.S.C. 78c(a)(47)), which authority shall include, but not be limited to, section 21(a) of the Securities Exchange Act of 1934, 15 U.S.C. 78u(a)).
- 15. To members of advisory committees that are created by the Commission or by Congress to render advice and recommendations to the Commission or to Congress, to be used solely in connection with their official designated functions.
- 16. To any person who is or has agreed to be subject to the Commission's Rules of Conduct, 17 CFR 200.735-1 through 200.735-18, and who assists in the investigation by the Commission of possible violations of the Federal securities laws (as such term is defined in section 3(a)(47) of the Securities Exchange Act of 1934, 15 U.S.C. 78c(a)(47)), in the preparation or conduct of enforcement actions brought by the Commission for such violations, or otherwise in connection with the Commission's enforcement or regulatory functions under the Federal securities laws.
- 17. To a Congressional office from the record of an individual in response to an inquiry from the Congressional office made at the request of that individual.
- 18. To members of Congress, the press, and the public in response to inquiries relating to particular Registrants and their activities, and other matters under the Commission's jurisdiction.
- 19. To prepare and publish information relating to violations of the Federal securities laws as provided in 15 U.S.C. 78c(a)(47)), as amended.
- 20. To respond to subpoenas in any litigation or other proceeding.
- 21. To a trustee in bankruptcy.
- 22. To any governmental agency, governmental or private collection agent, consumer reporting agency or commercial reporting agency, governmental or private employer of a debtor, or any other person, for collection,

including collection by administrative offset, Federal salary offset, tax refund offset, or administrative wage garnishment, of amounts owed as a result of Commission civil or administrative proceedings.

23. To another Federal agency or Federal entity, when the SEC determines that information from this system of records is reasonably necessary to assist the recipient agency or entity in (1) responding to a suspected or confirmed breach or (2) preventing, minimizing, or remedying the risk of harm to individuals, the recipient agency or entity (including its information systems, programs, and operations), the Federal Government, or national security, resulting from a suspected or confirmed breach.

* * * * *

Small Business Owners: The SEC always welcomes comments on how it can better assist small businesses. If you would like more information, or have questions or comments about federal securities regulations as they affect small businesses, please contact the Office of Small Business Policy, in the SEC's Division of Corporation Finance, at 202-551-3460. If you would prefer to comment to someone outside of the SEC, you can contact the Small Business Regulatory Enforcement Ombudsman at http://www.sba.gov/ombudsman or toll free at 888-REG-FAIR. The Ombudsman's office receives comments from small businesses and annually evaluates federal agency enforcement activities for their responsiveness to the special needs of small business.



UNITED STATES SECURITIES AND EXCHANGE COMMISSION

100 PEARL STREET, SUITE 20-100 NEW YORK, NY 10004-2616

DIVISION OF ENFORCEMENT

February 27, 2024

VIA email info@chainsafe.io ChainSafe Systems Inc. 251 Spadina Avenue Toronto, Ontario M5T 2E2

Re: C-08950

To Whom It May Concern:

The staff of the United States Securities and Exchange Commission is conducting an investigation relating to the above-referenced matter to determine if violations of the federal securities laws have occurred. In connection with this investigation, the staff requests that ChainSafe Systems Inc. ("ChainSafe") immediately preserve, and voluntarily provide us with, the information and documents set forth in Attachment A on or before **March 12, 2024 at 5:00 pm ET**.

	Please	send the	_materials	electronia	cally to	enf-	cpu@sec	.gov	with	a	copy	to
(b)(6); (b)(7)(C)	@sec.	gov, (b)(6); (b)(7)(C) Commissior	@sec.gov	(b)(6); '(b)(7)(C)	wsec.gov	, and	(b)(6); (b)(7)(C)	@sec	.gov.	If y	ou wo	uld
like to	use the	Commission	n's secure e	lectronic	transfer s	ite, A	ccellion/l	T itewo	orks, p	oleas	e cont	tact
me and	d I will se	end you a lin	k. If you pro	efer to sen	d the mat	erials	on DVD	or oth	er elec	tron	ic med	Jia,
please	send the	m to:										

ENF-CPU (U.S. Securities & Exchange Commission) 14420 Albermarle Point Pl. Suite 102 Chantilly, VA 20151-1750

Please carefully read the attachment, which contains, among other things, important instructions related to the manner of producing documents. In particular, if you prefer to send us copies of original documents, the staff requests that you scan and produce hard copy documents, as well as electronic documents, in an electronic format consistent with the SEC Data Delivery Standards attached hereto. All electronic documents responsive to the document request, including all metadata, should also be produced in their native software format. If you have any questions concerning the production of documents in an electronic format, please contact me as soon as possible and in any event before producing documents.

In your cover letter(s) accompanying the production of responsive documents, please enclose a list briefly describing each item you send. The list should state to which paragraph(s) in the attachment each item responds. Please also state in the cover letter(s) whether you believe you have met your obligations under the document request by searching carefully and thoroughly for everything called for by the request, and sending it all to us. Correspondence should reference case number, case name and requesting SEC staff member.

Please also provide a narrative description describing what was done to identify and collect documents responsive to the request. At a minimum, the narrative should describe:

- who searched for documents;
- who reviewed documents found to determine whether they were responsive;
- which custodians were searched;
- what sources were searched (e.g., computer files, CDs, DVDs, thumb drives, flash drives, online storage media, hard copy files, diaries, datebooks, planners, filing cabinets, storage facilities, home offices, work offices, voice mails, home email, webmail, work email, backup tapes or other media);
- what search terms, if any, were employed to identify responsive documents;
- what firms and/or persons, if any, assisted in analyzing the data collected;
- what third parties, if any, were contacted to obtain responsive documents (e.g., phone companies for phone records, brokerage firms for brokerage records); and
- where the original electronic and hardcopy documents are maintained and by whom.

Also attached is a Business Records Declaration. Execution of this declaration may allow the Commission to introduce documents provided by you in any subsequent judicial proceeding, without requiring the testimony of your custodian of records should the documents be required at trial.

This investigation is a non-public, fact-finding inquiry. The investigation does not mean that we have concluded that you or anyone else has violated the law. Also, the investigation does not mean that we have a negative opinion of any person, entity, or security. Enclosed is a copy of the Commission's Form 1662 entitled "Supplemental Information for Persons Requested to Supply Information Voluntarily or Directed to Supply Information Pursuant to a Commission Subpoena." Form 1662 explains how we may use the information you provide to the Commission and has other important information for you.

Thank you in advance for your anticipated cooperation. If you have any questions or would like to discuss this matter, you may contact me at (b)(6): esec.gov.

Sincerely,
(b)(6); (b)(7)(C)
Division of Enforcement
(b)(6); (b)(7)(C)

Enclosures: Attachment A

SEC Data Delivery Standards SEC Form 1662

Business Records Certification

ATTACHMENT FOR CHAINSAFE SYSTEMS INC.

C-08950

February 27, 2024

Definitions

As used in this subpoena, the words and phrases listed below shall have the following meanings:

- 1. "Relevant Period" means July 1, 2018 to the present.
- 2. "ChainSafe" means the entity doing business under the name ChainSafe Systems Inc. or Node Factory, parents, subsidiaries, affiliates, predecessors, successors, officers, directors, employees, agents, general partners, limited partners, partnerships and aliases, code names, or trade or business names used by any of the foregoing.
- 3. The "Ethereum Foundation" means the entity or business doing business under the name Ethereum Foundation, including, but not limited to, ethereum.org, the Ethereum Support Program, and parents, subsidiaries, affiliates, predecessors, successors, officers, directors, employees, agents, general partners, limited partners, partnerships and aliases, owners, code names, or trade or business names used by any of the foregoing.
- 4. "The Merge" or "Ethereum 2.0" means the transition by the Ethereum blockchain of its consensus mechanism from proof-of-work to proof-of-stake.
- 5. "Beacon Chain" means the original proof-of-stake blockchain that was launched in 2020 that ran alongside the original proof-of-work Ethereum blockchain.
- 6. "Document" shall include, but is not limited to, any written, printed, or typed matter including, but not limited to all drafts and copies bearing notations or marks not found in the original, letters and correspondence, interoffice communications, slips, tickets, records, worksheets, financial records, accounting documents, bookkeeping documents, memoranda, reports, manuals, telephone logs, facsimiles, messages of any type, telephone messages, text messages, voice mails, tape recordings, notices, instructions, minutes, summaries, notes of meetings, file folder markings, and any other organizational indicia, purchase orders, information recorded by photographic process, including microfilm and microfiche, computer printouts, spreadsheets, and other electronically stored information, including writings, drawings, graphs, charts, photographs, sound recordings, images, and other data or data compilations that are stored in any medium from which information can be retrieved, obtained, manipulated, or translated.
- 7. "Communication" means any correspondence, contact, discussion, e-mail, instant message, or any other kind of oral or written exchange or transmission of information (in the form of facts, ideas, inquiries, or otherwise), including but not limited to those made on Social Media Services, and any response thereto between two or more Persons or entities, including, without limitation, all telephone conversations, face-to-face meetings

or conversations, internal or external discussions, or exchanges of a Document or Documents.

- 8. "Concerning" means directly or indirectly, in whole or in part, describing, constituting, evidencing, recording, evaluating, substantiating, concerning, referring to, alluding to, in connection with, commenting on, relating to, regarding, discussing, showing, analyzing or reflecting.
- 9. "Agreement" means any actual or contemplated (i) written or oral Agreement; (ii) term or provision of such Agreement; or (iii) amendment of any nature or termination of such Agreement. A request for any Agreement among or between specified parties includes a request for all Documents Concerning (i) any actual or contemplated Agreement among or between such parties, whether or not such Agreement included any other Person; (ii) the drafting or negotiation of any such Agreement; (iii) any actual or contemplated demand, request or application for any such Agreement, and any response thereto; and (iv) any actual or contemplated objection or refusal to enter into any such Agreement, and any response thereto.
- 10. "Bank or Financial Account" means the domestic or foreign bank, brokerage, or financial accounts held, controlled, or used by you or by other people on your behalf. This includes, but is not limited to, accounts that contain currency, securities, or crypto assets.
- 11. "Person" means a natural person, firm, association, organization, partnership, business, trust, corporation, bank or any other private or public entity.
- 12. The term "you" and "your" means the Person to whom or entity to which this subpoena was issued.
- 13. To the extent necessary to bring within the scope of this this subpoena any information or Documents that might otherwise be construed to be outside its scope:
 - a. the word "or" means "and/or";
 - b. the word "and" means "and/or";
 - c. the functional words "each," "every" "any" and "all" shall each be deemed to include each of the other functional words;
 - d. the masculine gender includes the female gender and the female gender includes the masculine gender; and
 - e. the singular includes the plural and the plural includes the singular.

Instructions

1. Unless otherwise specified, the Document request calls for production of the original Documents and all copies and drafts of same. Documents responsive to this request may be in electronic or paper form. Electronic Documents such as email should be produced in accordance with the attached document entitled SEC Data Delivery Standards. All electronic Documents responsive to the Document request, including all metadata, should

also be produced in their native software format.

- 2. For Documents in paper format, you may send the originals, or, if you prefer, you may send copies of the originals. The Commission cannot reimburse you for the copying costs. If you are sending copies, the staff requests that you scan (rather than photocopy) hard copy Documents and produce them in an electronic format consistent with the SEC Data Delivery Standards. Alternatively, you may send us photocopies of the Documents in paper format. If you choose to send copies, you <u>must</u> secure and retain the originals and store them in a safe place. The staff may later request or require that you produce the originals.
- 3. Whether you scan or photocopy Documents, the copies must be identical to the originals, including even faint marks or print. Also, please note that if copies of a Document differ in any way, they are considered separate Documents and you must send each one. For example, if you have two copies of the same letter, but only one of them has handwritten notes on it, you must send both the clean copy and the one with notes.
- 4. In producing a photocopy of an original Document that contains post-it(s), notation flag(s), or other removable markings or attachments which may conceal all or a portion of the markings contained in the original Document, photocopies of the original Document both with and without the relevant post-it(s), notation flag(s), or removable markings or attachments should be produced.
- 5. Documents should be produced as they are kept in the ordinary course of business or be organized and labeled to correspond with the categories in this request. In that regard, Documents should be produced in a unitized manner, *i.e.*, delineated with staples or paper clips to identify the Document boundaries.
- 6. Documents should be labeled with sequential numbering (bates-stamped).
- 7. The scope of any given request should not be limited or narrowed based on the fact that it calls for Documents that are responsive to another request.
- 8. You are not required to produce exact duplicates of any Documents that have been previously produced to the Securities and Exchange Commission staff in connection with this matter. If you are not producing Documents based upon a prior production, please identify the responsive Documents that were previously produced.
- 9. This request covers all Documents in or subject to your possession, custody or control, including all Documents that are not in your immediate possession but that you have the effective ability to obtain, that are responsive, in whole or in part, to any of the individual requests set forth below. If, for any reason—including a claim of attorney-client privilege—you do not produce something called for by the request, you should submit a list of what you are not producing. The list should be produced as an Excel file and describe each item separately, noting:

a.

- its date; b.
- its subject matter; c.

its author(s);

- d. the name of the Person who has the item now, or the last Person known to have it:
- the names of everyone who ever had the item or a copy of it, and the e. names of everyone who was told the item's contents;
- the basis upon which you are not producing the responsive Document; f.
- the specific request in the request to which the Document relates; g.
- the attorney(s) and the client(s) involved; and h.
- in the case of the work product doctrine, the litigation for which the i. Document was prepared in anticipation.
- If Documents responsive to this request no longer exist because they have been lost, 10. discarded, or otherwise destroyed, you should identify such Documents and give the date on which they were lost, discarded or destroyed.

Documents to be Produced

- 1. All Agreements between ChainSafe and the Ethereum Foundation;
- 2. All Documents and Communications Concerning any grant or other source of funding received from the Ethereum Foundation;
- 3. All Documents and Communications Concerning any work conducted by ChainSafe pursuant to any grant or other source of funding received from the Ethereum Foundation;
- 4. Documents sufficient to identify ChainSafe crypto asset wallet addresses or Bank or Financial Accounts, located within or outside the U.S., that received any grant or other source of funding from the Ethereum Foundation, as well as the amount of crypto assets or fiat received;
- 5. Documents sufficient to identify all meetings with the Ethereum Foundation, including any Documents related to the meetings identified;
- 6. All Communications with the Ethereum Foundation, including, but not limited to, Communications with board members, consultants, officers, directors, employees, developers, coders, and others performing work on behalf of these entities, related to The Merge or the Beacon Chain.

DECLARATION OF [Insert Name] CERTIFYING RECORDS OF REGULARLY CONDUCTED BUSINESS ACTIVITY

I, the undersigned, [insert name], pursuant to 28 U.S.C. § 1746, declare that:

- 1. I am employed by ChainSafe as [insert position] and by reason of my position am authorized and qualified to make this declaration. [if possible supply additional information as to how person is qualified to make declaration, e.g., I am custodian of records, I am familiar with the company's recordkeeping practices or systems, etc.]
- 2. I further certify that the documents [attached hereto or submitted herewith] and stamped [insert bates range] are true copies of records that were:
 - (a) made at or near the time of the occurrence of the matters set forth therein, by, or from information transmitted by, a person with knowledge of those matters;
 - (b) kept in the course of regularly conducted business activity; and
 - (c) made by the regularly conducted business activity as a regular practice.

I declare under penalty of perjury that the foregoing is true and correct. Executed on [date].

[Name]	



U.S. Securities and Exchange Commission

Data Delivery Standards

This document describes the technical requirements for paper and electronic document productions to the U.S. Securities and Exchange Commission (SEC). **Any questions or proposed file formats other than those described below must be discussed with the legal and technical staff of the SEC Division of Enforcement prior to submission. **

General Instructions	l
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VIII. Audit Workpapers	
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General Instructions

The current mailing address for all physical productions sent to the SEC is:

ENF-CPU (U.S. Securities & Exchange Commission), 14420 Albemarle Point Place, Suite 102, Chantilly, VA 20151-1750

Electronic files must be produced in their native format, i.e. the format in which they are ordinarily used and maintained during the normal course of business. For example, an MS Excel file must be produced as an MS Excel file rather than an image of a spreadsheet. (Note: An Adobe PDF file is not considered a native file unless the document was initially created as a PDF.)

In the event produced files require the use of proprietary software not commonly found in the workplace, the SEC will explore other format options with the producing party.

The proposed use of file de-duplication methodologies or computer-assisted review or technology-assisted review (TAR) during the processing of documents must be discussed with and approved by the legal and technical staff of the Division of Enforcement (ENF). If your production will be de-duplicated it is vital that you 1) preserve any unique metadata associated with the duplicate files, for example, custodian name and file location and, 2) make that unique metadata part of your production to the SEC.

General requirements for ALL document productions are:

- 1. A cover letter must be included with each production and should include the following information:
 - Case number, case name and requesting SEC staff member name
 - b. A list of each piece of media included in the production with its unique production volume number
 - c. A list of custodians, identifying the Bates range for each custodian
 - d. A list of redacted documents and the redaction reason
 - c. The time zone in which the emails were standardized during conversion
 - f. Whether the production contains native files produced from Mac operating system environments
- Data can be produced on CD, DVD, thumb drive, etc., using the media requiring the least number of deliverables and labeled with the following:
 - a. Case number
 - b. Production date
 - c. Producing party
 - d. Bates range (if applicable)
- All submissions must be organized by custodian unless otherwise instructed.
- All document family groups, i.e. email attachments, embedded files, etc., should be produced together and children files should follow parent files sequentially in the Bates numbering.
- All load-ready collections should include only one data load file and one image pointer file.
- All load-ready text must be produced as separate document-level text files.
- All load-ready collections should account for custodians in the custodian field.
- 8. All load-ready collections must provide the extracted contents of any container files to ensure all relevant files are produced as separate records.
- Audio files should be separated from data files if both are included in the production.
- 10. Only alphanumeric characters and the underscore character are permitted in file names and folder names. Special characters are not permitted.
- 11. All electronic productions submitted on media must be produced using industry standard self-extracting encryption software.
- 12. The SEC uses 7zip to access compressed files. Note that the SEC cannot accept files that use AES-256 Jpeg or pkAES-256-Cert Deflate compression methods, even if the files are created with 7zip. If you have any questions or need additional information, please reach out to the requesting SEC staff member.
- 13. Electronic productions of 30 GB or less are strongly encouraged to be submitted via Secure File Transfer. All Secure File Transfers should be sent to the SEC Centralized Production Unit (ENF-CPU@sec.gov) with a CC to the requesting SEC staff member. If you do not have your own Secure File Transfer application, you may reach out to the requesting SEC staff member for a link to the SEC system in order to upload your production. If using the SEC Secure File Transfer system, you will NOT be able to CC individuals outside the SEC on your upload transmission. Note that the SEC cannot accept productions made using file sharing sites such as Google Drive or Microsoft Office 365.
- 14. Productions containing BSA or SAR material must be encrypted. Secure File Transfer applications may be used to produce BSA or SAR material. BSA or SAR material should be segregated and appropriately marked as BSA or SAR, or should be produced separately from other case related records.
- 15. Passwords for electronic documents, files, compressed archives and encrypted media must be provided separately either via email or in a cover letter apart from the media.
- 16. All electronic productions should be produced free of computer viruses.
- 17. Before producing forensically collected images, parties should reach out to the requesting SEC staff member in order to discuss appropriate handling.
- 18. Before producing unique data sets (large sets of relational data, website reconstruction, chat room data, etc.), parties should reach out to the requesting SEC staff member in order to discuss an appropriate production format.
- Additional technical descriptions can be found in the addendum to this document.

Please note that productions sent to the SEC via United States Postal Service are subject to Mail Irradiation, and as a result electronic productions may be damaged.

Delivery Formats

Imaged Productions

The SEC prefers that all scanned paper and electronic file collections be produced in a structured format including industry standard load files, Bates numbered image files, native files and searchable document-level text files. Bates numbers should not contain spaces. Hyphens (-) and underscores (-) are acceptable.

1. Images

- Black and white images must be 300 DPI Group IV single-page TIFF files
- b. Color images must be produced in JPEG format
- File names cannot contain embedded spaces or special characters (including the comma)
- d. Folder names cannot contain embedded spaces or special characters (including the comma)
- e. All image files must have a unique file name, i.e. Bates number
- f. Images must be endorsed with sequential Bates numbers in the lower right corner of each image
- The number of image files per folder should not exceed 2,000 files g.
- h. Excel spreadsheets should have a placeholder image named by the Bates number of the file
- AUTOCAD/photograph files should be produced as a single page JPEG file

2. Image Cross-Reference File

The image cross-reference file (LOG or .OPT) links the images to the database records. It should be a comma-delimited file consisting of seven fields per line with a line in the cross-reference file for every image in the database with the following format:

ImageID, VolumeLabel, ImageFilePath, DocumentBreak, FolderBreak, BoxBreak, PageCount

3. Data File

The data file (.DAT) contains all of the fielded information that will be loaded into the database.

- The first line of the .DAT file must be a header row identifying the field names
- The .DAT file must use the following *Concordance*® default delimiters:

Comma ¶ ASCII character (020)

Quote b ASCII character (254)

- c. If the .DAT file is produced in Unicode format it must contain the byte order marker
- d. Date fields should be provided in the format: mm/dd/yyyy
- Date and time fields must be two separate fields
- The time zone must be included in all time fields f.
- If the production includes imaged emails and attachments, the attachment fields must be included to preserve the parent/child relationship between an email and its attachments
- An OCRPATH field must be included to provide the file path and name of the extracted text file on the produced storage media. The text file must be named after the FIRSTBATES. Do not include the text in the .DAT file.
- For productions with native files, a LINK field must be included to provide the file path and name of the native file on the produced storage media. The native file must be named after the FIRSTBATES.
- BEGATTACH and ENDATTACH fields must be two separate fields
- A complete list of metadata fields is available in Addendum A to this document

4. Text

Text must be produced as separate document-level text files, not as fields within the .DAT file. The text files must be named per the FIRSTBATES/Image Key and the full path to the text file (OCRPATII) should be included in the .DAT file. Text files may be in either ANSI or Unicode format, however, ALL text files must be in the same format within the same production. Note that productions containing text with foreign characters must produce text files in Unicode format to preserve the foreign characters. Text files must be in a separate folder, and the number of text files per folder should not exceed 2,000 files. There should be no special characters (including commas) in the folder names. For redacted documents, provide the full text for the redacted version.

Linked Native Files

Copies of original email and native file documents/attachments must be included for all electronic productions.

- a. Native file documents must be named per the FIRSTBATES number
- b. The full path of the native file must be provided in the .DAT file for the LINK field
- The number of native files per folder should not exceed 2,000 files

II. Native File Production without Load Files

With prior approval, native files may be produced without load files. Native file productions should not be Bates numbered. Native files must be produced as they are maintained in the normal course of business and organized by custodian-named file folders. Native email files (.PST or .MBOX) must be separated by custodian.

III. Adobe PDF File Production

With prior approval, Adobe PDF files may be produced in native file format.

- 1. All PDFs must be unitized at the document level, i.e. each PDF must represent a discrete document.
- 2. PDF files should be produced in separate folders named by the custodian. The folders should not contain any special characters (including commas).
- 3. All PDF files must contain embedded text that includes all discernible words within the document, not selected text or image only. This requires all layers of the PDF to be flattened first.
- 4. If PDF files are Bates endorsed, the PDF files must be named by the Bates range.

IV. Audio Files

Audio files from telephone recording systems must be produced in a format that is playable using Microsoft Windows Media PlayerTM. Additionally, the call information (metadata) related to each audio recording MUST be provided. The metadata file must be produced in a delimited text format. Field names must be included in the first row of the text file. The metadata must include, at a minimum, the following fields:

1) Caller Name: Caller's name or account/identification number

2) Originating Number: Caller's phone number3) Called Party Name: Called party's name

4) Terminating Number: Called party's phone number

5) Date: Date of call
6) Time: Time of call

7) Filename: Filename of audio file

V. Video Files

Video files must be produced in a format that is playable using Microsoft Windows Media PlayerTM.

VI. Electronic Trade and Bank Records

When producing electronic trade records, bank records, or financial statements, provide the files in one of the following formats:

- 1. MS Excel spreadsheet with header information detailing the field structure. If any special codes exist in the dataset, a separate document must be provided that details all such codes. If details of the field structure do not fit in the header, a separate document must be provided that includes such details.
- 2. Delimited text file with header information detailing the field structure. The preferred delimiter is a vertical bar "|". If any special codes exist in the dataset, a separate document must be provided that details all such codes. If details of the field structure do not fit in the header, a separate document must be provided that includes such details.

VII. Electronic Phone Records

When producing an MS Excel spreadsheet for electronic phone records, provide the files in the following format:

- 1. MS Excel spreadsheet with header information detailing the field structure. If any special codes exist in the dataset, a separate document must be provided that details all such codes. If details of the field structure do not fit in the header, a separate document must be provided that includes such details. Data must be formatted in its native format (i.e. dates in a date format, numbers in an appropriate numerical format, and numbers with leading zeroes as text).
 - a. The metadata that must be included is outlined in **Addendum B** of this document. Each field of data must be loaded into a separate column. For example, Date and Start_Time must be produced in separate columns and not combined into a single column containing both pieces of information. Any fields of data that are provided in addition to those listed in **Addendum B** must also be loaded into separate columns.

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Data Delivery Standards

VIII. Audit Workpapers

The SEC prefers for workpapers to be produced in two formats: (1) With Bates numbers in accordance with the SEC Data Delivery Standards; and (2) in native format via laptop computer, web-based viewing platform, or otherwise, allowing for viewing in the same format and organization as the firm's audit team. Prior to production of workpapers via laptop computer or web-based viewing platform, audit firms should contact the requesting SEC staff member for additional information and written agreements addressing use of software, access, and viewing protocols.

IX. Mobile Device Data

Before producing any mobile device data (including but not limited to text messages and application data) parties should reach out to the requesting SEC staff member in order to discuss the appropriate production format. Productions containing chat data from applications must be identified at the time of production and the following information must be provided to the requesting SEC staff member and the SEC Centralized Production Unit: chat application, chat data format, and how the length of a chat is determined (i.e. set duration of time, number of minutes without messages, etc.)

ADDENDUM A

The metadata of electronic document collections should be extracted and provided in a .DAT file using the field definition and formatting described below:

Field Name	Sample Data	Description
FIRSTBATES	EDC0000001	First Bates number of native file document/email
LASTBATES	EDC0000001	Last Bates number of native file document/email
		**The LASTBATES field should be populated
		for single page documents/emails.
ATTACHRANGE	EDC0000001 - EDC0000015	Bates number of the first page of the parent
		document to the Bates number of the last page of the
		last attachment "child" document
BEGATTACH	EDC0000001	First Bates number of attachment range
ENDATTACH	EDC0000015	Last Bates number of attachment range
PARENT_BATES	EDC0000001	First Bates number of parent document/Email **This PARENT_BATES field should be populated
		in each record representing an attachment "child"
		document
CHILD BATES	EDC0000002; EDC0000014	First Bates number of "child" attachment(s); can be
		more than one Bates number listed depending on the
		number of attachments
		**The CHILD BATES field should be populated in
		each record representing a "parent" document
CUSTODIAN	Smith, John	Email: Mailbox where the email resided
		Native: Name of the individual or department from
		whose files the document originated
FROM	John Smith	Email: Sender
		Native: Author(s) of document
		**semi-colon should be used to separate multiple
		entries
TO	Coffman, Janice; LeeW	Recipient(s)
	[mailto:LecW@MSN.com]	**semi-colon should be used to separate multiple
		entries
CC	Frank Thompson [mailto:	Carbon copy recipient(s)
	frank_Thompson@cdt.com]	**semi-colon should be used to separate multiple
D.C.C.		entries
BCC	John Cain	Blind carbon copy recipient(s)
		**semi-colon should be used to separate multiple
SUBJECT	Board Meeting Minutes	entries Email: Subject line of the email
SUBJECT	Board Meeting Minutes	Native: Title of document (if available)
FILE_NAME	BoardMeetingMinutes.docx	Native: Name of the original native file, including
TILE_INVINE	Board.Meeting.Willules.docx	extension
DATE SENT	10/12/2010	Email: Date the email was sent
DATE SERVE	10/12/2010	Native: (empty)
TIME SENT/TIME	07:05 PM GMT	Email: Time the email was sent/ Time zone in which
ZONE		the emails were standardized during conversion.
		Native: (empty)
		**This data must be a separate field and cannot be
		combined with the DATE_SENT field
TIME_ZONE	GMT	The time zone in which the emails were standardized
		during conversion.
		Email: Time zone
		Native: (empty)
	·	

LINK	D:\001\EDC0000001.msg	Hyperlink to the email or native file document **The linked file must be named per the FIRSTBATES number
MIME_TYPE	application/msword	The content type of an email or native file document as identified/extracted from the header
FILE_EXTEN	MSG	The file type extension representing the email or native file document; will vary depending on the format
AUTHOR	John Smith	Email: (empty) Native: Author of the document
LAST_AUTHOR	Jane Doe	Email: (empty) Native: Last Author of the document
DATE_CREATED	10/10/2010	Email: (empty) Native: Date the document was created
TIME_CREATED/T IME_ZONE	10:25 AM GMT	Email: (empty) Native: Time the document was created including time zone **This data must be a separate field and cannot be combined with the DATE_CREATED field
DATE_MOD	10/12/2010	Email: (empty) Native: Date the document was last modified
TIME_MOD/TIME_ ZONE	07:00 PM GMT	Email: (empty) Native: Time the document was last modified including the time zone **This data must be a separate field and cannot be combined with the DATE_MOD field
DATE_ACCESSD	10/12/2010	Email: (empty) Native: Date the document was last accessed
TIME_ACCESSD/T IME_ZONE	07:00 PM GMT	Email: (empty) Native: Time the document was last accessed including the time zone **This data must be a separate field and cannot be combined with the DATE_ACCESSD field
PRINTED_DATE	10/12/2010	Email: (empty) Native: Date the document was last printed
FILE_SIZE	5,952	Size of native file document/email in KB
PGCOUNT	1	Number of pages in native file document/email
PATH	J:\Shared\SmithJ\October Agenda.doc	Email: (empty) Native: Path where native file document was stored including original file name.
INTFILEPATH	Personal Folders\Deleted Items\Board Meeting Minutes.msg	Email: original location of email including original file name. Native: (empty)
INTMSGID	<000805c2c71bS75977050Scb 8306d1@MSN>	Email: Unique Message ID Native: (empty)

Case 1:24-cv-01858-ACR Document 26-1 Filed 02/04/25 Page 213 of 933 Data Delivery Standards

HEADER	Return-Path: <example_from@dc.edu> X-SpamCatcher-Score:1[X] Received:from[136.167.40.119] (HELO dc.edu) by fe3.dc.edu (CommuniGate Pro SMTP4.1.8) with ESMTP-TLS id 61258719 for example_to@mail.dc.edu; Mon, 23 Aug 2004 11:40:10 - 0400 Message-ID: <<4129F3CA.2020509@dc.edu> Date: Mon, 23 Aug 2005 11:40:36 -400 From: Taylor Evans <example_from@dc.edu> User-Agent:Mozilla/5.0 (Windows;U; Windows NT 5.1: en-US;rv:1.0.1) Gecko/20020823 Netscape/7.0 X-Accept-Language:en-us,en MIME-Version:1.0 To: Jon Smith <example_to@mail.dc.edu> Subject:Business Development Meeting Content-Type: text/plain;charset=us-ascii; format=flowed Content-Transfer-Encoding:7bit</example_to@mail.dc.edu></example_from@dc.edu></example_from@dc.edu>	
SHA256	AD6128C5CA40164AF71A1E FC800E12D2F195CE07BB5F8 C813B0888A2DDE6A06F	SHA-256 hash value of the document.
OCRPATH	TEXT/001/EDC0000001.txt	Path to extracted text of the native file

Sample Image Cross-Reference File:

IMG000001,,E:\001\IMG0000001.TIF,Y,,,
IMG0000002,,E:\001\IMG0000002.TIF,,,,
IMG0000003,,E:\001\IMG0000003.TIF,,,,
IMG0000004,,E:\001\IMG0000005.TIF,Y,,,
IMG0000005,,E:\001\IMG0000005.TIF,Y,,,
IMG0000006,,E:\001\IMG0000006.TIF,,,,,

ADDENDUM B

For Electronic Phone Records, include the following fields in separate columns:

For Calls:

- 1) Account Number
- 2) Connection Date Date the call was received or made
- 3) Connection Time Time call was received or made
- 4) Seizure Time Time it took for the call to be placed in seconds
- 5) Originating Number Phone that placed the call
- 6) Terminating Number Phone that received the call
- 7) Elapsed Time The length of time the call lasted, preferably in seconds
- 8) End Time The time the call ended
- 9) Number Dialed Actual number dialed
- 10) IMEI Originating Unique id to phone used to make call
- 11) IMEI Terminating-Unique id to phone used to receive call
- 12) IMSI Originating Unique id to phone used to make call
- 13) IMSI Terminating- Unique id to phone used to receive call
- 14) Call Codes Identify call direction or other routing information
- 15) Time Zone Time Zone in which the call was received or placed, if applicable

For Text messages:

- 1) Account Number
- 2) Connection Date Date the text was received or made
- 3) Connection Time Time text was received or made
- 4) Originating Number Who placed the text
- 5) Terminating Number Who received the text
- 6) IMEI Originating Unique id to phone used to make text
- 7) IMEI Terminating—Unique id to phone used to receive text
- 8) IMSI Originating Unique id to phone used to make text
- 9) IMSI Terminating- Unique id to phone used to receive text
- 10) Text Code Identify text direction, or other text routing information
- 11) Text Type Code Type of text message (sent SMS, MMS, or other)
- 12) Time Zone Time Zone in which the call was received or placed, if applicable

For Mobile Data Usage:

- 1) Account Number
- Connection Date Date the data was received or made
- 3) Connection Time Time data was received or made
- 4) Originating number Number that used data
- 5) IMEI Originating Unique id of phone that used data
- 6) IMSI Originating Unique id of phone that used data
- 7) Data or Data codes Identify data direction, or other data routing information
- 8) Time Zone Time Zone in which the call was received or placed, if applicable

SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549

Supplemental Information for Persons Requested to Supply Information Voluntarily or Directed to Supply Information Pursuant to a Commission Subpoena

A. False Statements and Documents

Section 1001 of Title 18 of the United States Code provides that fines and terms of imprisonment may be imposed upon:

[W]hoever, in any matter within the jurisdiction of the executive, legislative, or judicial branch of the Government of the United States, knowingly and willfully--

- (1) falsifies, conceals, or covers up by any trick, scheme, or device a material fact;
- (2) makes any materially false, fictitious, or fraudulent statement or representation; or
- (3) makes or uses any false writing or document knowing the same to contain any materially false, fictitious, or fraudulent statement or entry.

Section 1519 of Title 18 of the United States Code provides that fines and terms of imprisonment may be imposed upon:

Whoever knowingly alters, destroys, mutilates, conceals, covers up, falsifies, or makes a false entry in any record, document, or tangible object with the intent to impede, obstruct, or influence the investigation or proper administration of any matter within the jurisdiction of any department or agency of the United States . . ., or in relation to or contemplation of any such matter.

B. Testimony

If your testimony is taken, you should be aware of the following:

- 1. Record. Your testimony will be transcribed by a reporter. If you desire to go off the record, please indicate this to the Commission employee taking your testimony, who will determine whether to grant your request. The reporter will not go off the record at your, or your counsel's, direction.
- 2. Counsel. You have the right to be accompanied, represented and advised by counsel of your choice. Your counsel may advise you before, during and after your testimony; question you briefly at the conclusion of your testimony to clarify any of the answers you give during testimony; and make summary notes during your testimony solely for your use. If you are accompanied by counsel, you may consult privately.

If you are not accompanied by counsel, please advise the Commission employee taking your testimony if, during the testimony, you desire to be accompanied, represented and advised by counsel. Your testimony will be adjourned once to afford you the opportunity to arrange to be so accompanied, represented or advised.

You may be represented by counsel who also represents other persons involved in the Commission's investigation. This multiple representation, however, presents a potential conflict of interest if one client's interests are or may be adverse to another's. If you are represented by counsel who also represents other persons involved in the investigation, the Commission will assume that you and counsel have discussed and resolved all issues concerning possible conflicts of interest. The choice of counsel, and the responsibility for that choice, is yours.

3. Transcript Availability. Rule 6 of the Commission's Rules Relating to Investigations, 17 CFR 203.6, states:

A person who has submitted documentary evidence or testimony in a formal investigative proceeding shall be entitled, upon written request, to procure a copy of his documentary evidence or a transcript of his testimony on payment of the appropriate fees: *Provided, however*, That in a nonpublic formal investigative proceeding the Commission may for good cause deny such request. In any event, any witness, upon proper identification, shall have the right to inspect the official transcript of the witness' own testimony.

If you wish to purchase a copy of the transcript of your testimony, the reporter will provide you with a copy of the appropriate form. Persons requested to supply information voluntarily will be allowed the rights provided by this rule.

4. *Perjury.* Section 1621 of Title 18 of the United States Code provides that fines and terms of imprisonment may be imposed upon:

Whoever--

(1) having taken an oath before a competent tribunal, officer, or person, in any case in which a law of the United States authorizes an oath to be administered, that he will testify, declare,

depose, or certify truly, or that any written testimony, declaration, deposition, or certificate by him subscribed, is true, willfully and contrary to such oath states or subscribes any material matter which he does not believe to be true; or

- (2) in any declaration, certificate, verification, or statement under penalty of perjury as permitted under section 1746 of title 28, United States Code, willfully subscribes as true any material matter which he does not believe to be true.
- 5. Fifth Amendment and Voluntary Testimony. Information you give may be used against you in any federal, state, local or foreign administrative, civil or criminal proceeding brought by the Commission or any other agency.

You may refuse, in accordance with the rights guaranteed to you by the Fifth Amendment to the Constitution of the United States, to give any information that may tend to incriminate you.

If your testimony is not pursuant to subpoena, your appearance to testify is voluntary, you need not answer any question, and you may leave whenever you wish. Your cooperation is, however, appreciated.

6. Formal Order Availability. If the Commission has issued a formal order of investigation, it will be shown to you during your testimony, at your request. If you desire a copy of the formal order, please make your request in writing.

C. Submissions and Settlements

Rule 5(c) of the Commission's Rules on Informal and Other Procedures, 17 CFR 202,5(c), states:

Persons who become involved in . . . investigations may, on their own initiative, submit a written statement to the Commission setting forth their interests and position in regard to the subject matter of the investigation. Upon request, the staff, in its discretion, may advise such persons of the general nature of the investigation, including the indicated violations as they pertain to them, and the amount of time that may be available for preparing and submitting a statement prior to the presentation of a staff recommendation to the Commission for the commencement of an administrative or injunction proceeding. Submissions by interested persons should be forwarded to the appropriate Division Director or Regional Director with a copy to the staff members conducting the investigation and should be clearly referenced to the specific investigation to which they relate. In the event a recommendation for the commencement of an enforcement proceeding is presented by the staff, any submissions by interested persons will be forwarded to the Commission in conjunction with the staff memorandum.

The staff of the Commission routinely seeks to introduce submissions made pursuant to Rule 5(c) as evidence in Commission enforcement proceedings, when the staff deems appropriate.

Rule 5(f) of the Commission's Rules on Informal and Other Procedures, 17 CFR 202.5(f), states:

In the course of the Commission's investigations, civil lawsuits, and administrative proceedings, the staff, with appropriate authorization, may discuss with persons involved the disposition of such matters by consent, by settlement, or in some other manner. It is the policy of the Commission, however, that the disposition of any such matter may not, expressly or impliedly, extend to any criminal charges that have been, or may be, brought against any such person or any recommendation with respect thereto. Accordingly, any person involved in an enforcement matter before the Commission who consents, or agrees to consent, to any judgment or order does so solely for the purpose of resolving the claims against him in that investigative, civil, or administrative matter and not for the purpose of resolving any criminal charges that have been, or might be, brought against him. This policy reflects the fact that neither the Commission nor its staff has the authority or responsibility for instituting, conducting, settling, or otherwise disposing of criminal proceedings. That authority and responsibility are vested in the Attorney General and representatives of the Department of Justice.

D. Freedom of Information Act

The Freedom of Information Act, 5 U.S.C. 552 (the "FOIA"), generally provides for disclosure of information to the public. Rule 83 of the Commission's Rules on Information and Requests, 17 CFR 200.83, provides a procedure by which a person can make a written request that information submitted to the Commission not be disclosed under the FOIA. That rule states that no determination as to the validity of such a request will be made until a request for disclosure of the information under the FOIA is received. Accordingly, no response to a request that information not be disclosed under the FOIA is necessary or will be given until a request for disclosure under the FOIA is received. If you desire an acknowledgment of receipt of your written request that information not be disclosed under the FOIA, please provide a duplicate request, together with a stamped, self-addressed envelope.

E. Authority for Solicitation of Information

Persons Directed to Supply Information Pursuant to Subpoena. The authority for requiring production of information is set forth in the subpoena. Disclosure of the information to the Commission is mandatory, subject to the valid assertion of any legal right or privilege you might have.

Persons Requested to Supply Information Voluntarily. One or more of the following provisions authorizes the Commission to solicit the information requested: Sections 19 and/or 20 of the Securities Act of 1933; Section 21 of the Securities Exchange Act of 1934; Section 321 of the Trust Indenture Act of 1939; Section 42 of the Investment Company Act of 1940; Section 209 of the Investment Advisers Act of 1940; and 17 CFR 202.5. Disclosure of the requested information to the Commission is voluntary on your part.

F. Effect of Not Supplying Information

Persons Directed to Supply Information Pursuant to Subpoena. If you fail to comply with the subpoena, the Commission may seek a court order requiring you to do so. If such an order is obtained and you thereafter fail to supply the information, you may be subject to civil and/or criminal sanctions for contempt of court. In addition, Section 21(c) of the Securities Exchange Act of 1934, Section 42(c) of the Investment Company Act of 1940, and Section 209(c) of the Investment Advisers Act of 1940 provide that fines and terms of imprisonment may be imposed upon any person who shall, without just cause, fail or refuse to attend and testify or to answer any lawful inquiry, or to produce books, papers, correspondence, memoranda, and other records in compliance with the subpoena.

Persons Requested to Supply Information Voluntarily. There are no direct sanctions and thus no direct effects for failing to provide all or any part of the requested information.

G. Principal Uses of Information

The Commission's principal purpose in soliciting the information is to gather facts in order to determine whether any person has violated, is violating, or is about to violate any provision of the federal securities laws or rules for which the Commission has enforcement authority, such as rules of securities exchanges and the rules of the Municipal Securities Rulemaking Board. Facts developed may, however, constitute violations of other laws or rules. Information provided may be used in Commission and other agency enforcement proceedings. Unless the Commission or its staff explicitly agrees to the contrary in writing, you should not assume that the Commission or its staff acquiesces in, accedes to, or concurs or agrees with, any position, condition, request, reservation of right, understanding, or any other statement that purports, or may be deemed, to be or to reflect a limitation upon the Commission's receipt, use, disposition, transfer, or retention, in accordance with applicable law, of information provided.

H. Routine Uses of Information

The Commission often makes its files available to other governmental agencies, particularly United States Attorneys and state prosecutors. There is a likelihood that information supplied by you will be made available to such agencies where appropriate. Whether or not the Commission makes its files available to other governmental agencies is, in general, a confidential matter between the Commission and such other governmental agencies.

Set forth below is a list of the routine uses which may be made of the information furnished.

- 1. To appropriate agencies, entities, and persons when (1) the SEC suspects or has confirmed that there has been a breach of the system of records, (2) the SEC has determined that as a result of the suspected or confirmed breach there is a risk of harm to individuals, the SEC (including its information systems, programs, and operations), the Federal Government, or national security; and (3) the disclosure made to such agencies, entities, and persons is reasonably necessary to assist in connection with the SEC's efforts to respond to the suspected or confirmed breach or to prevent, minimize, or remedy such harm.
- 2. To other Federal, state, local, or foreign law enforcement agencies; securities self-regulatory organizations; and foreign financial regulatory authorities to assist in or coordinate regulatory or law enforcement activities with the SEC.
- 3. To national securities exchanges and national securities associations that are registered with the SEC, the Municipal Securities Rulemaking Board; the Securities Investor Protection Corporation; the Public Company Accounting Oversight Board; the Federal banking authorities, including, but not limited to, the Board of Governors of the Federal Reserve System, the Comptroller of the Currency, and the Federal Deposit Insurance Corporation; state securities regulatory agencies or organizations; or regulatory authorities of a foreign government in connection with their regulatory or enforcement responsibilities.
- 4. By SEC personnel for purposes of investigating possible violations of, or to conduct investigations authorized by, the Federal securities laws.
- 5. In any proceeding where the Federal securities laws are in issue or in which the Commission, or past or present members of its staff, is a party or otherwise involved in an official capacity.
- 6. In connection with proceedings by the Commission pursuant to Rule 102(e) of its Rules of Practice, 17 CFR 201.102(e).

- 7. To a bar association, state accountancy board, or other Federal, state, local, or foreign licensing or oversight authority; or professional association or self-regulatory authority to the extent that it performs similar functions (including the Public Company Accounting Oversight Board) for investigations or possible disciplinary action.
- 8. To a Federal, state, local, tribal, foreign, or international agency, if necessary to obtain information relevant to the SEC's decision concerning the hiring or retention of an employee; the issuance of a security clearance; the letting of a contract; or the issuance of a license, grant, or other benefit.
- 9. To a Federal, state, local, tribal, foreign, or international agency in response to its request for information concerning the hiring or retention of an employee; the issuance of a security clearance; the reporting of an investigation of an employee; the letting of a contract; or the issuance of a license, grant, or other benefit by the requesting agency, to the extent that the information is relevant and necessary to the requesting agency's decision on the matter.
- 10. To produce summary descriptive statistics and analytical studies, as a data source for management information, in support of the function for which the records are collected and maintained or for related personnel management functions or manpower studies; may also be used to respond to general requests for statistical information (without personal identification of individuals) under the Freedom of Information Act.
- 11. To any trustee, receiver, master, special counsel, or other individual or entity that is appointed by a court of competent jurisdiction, or as a result of an agreement between the parties in connection with litigation or administrative proceedings involving allegations of violations of the Federal securities laws (as defined in section 3(a)(47) of the Securities Exchange Act of 1934, 15 U.S.C. 78c(a)(47)) or pursuant to the Commission's Rules of Practice, 17 CFR 201.100 through 900 or the Commission's Rules of Fair Fund and Disgorgement Plans, 17 CFR 201.1100 through 1106, or otherwise, where such trustee, receiver, master, special counsel, or other individual or entity is specifically designated to perform particular functions with respect to, or as a result of, the pending action or proceeding or in connection with the administration and enforcement by the Commission of the Federal securities laws or the Commission's Rules of Practice or the Rules of Fair Fund and Disgorgement Plans.
- 12. To any persons during the course of any inquiry, examination, or investigation conducted by the SEC's staff, or in connection with civil litigation, if the staff has reason to believe that the person to whom the record is disclosed may have further information about the matters related therein, and those matters appeared to be relevant at the time to the subject matter of the inquiry.
- 13. To interns, grantees, experts, contractors, and others who have been engaged by the Commission to assist in the performance of a service related to this system of records and who need access to the records for the purpose of assisting the Commission in the efficient administration of its programs, including by performing clerical, stenographic, or data analysis functions, or by reproduction of records by electronic or other means. Recipients of these records shall be required to comply with the requirements of the Privacy Act of 1974, as amended, 5 U.S.C. 552a.
- 14. In reports published by the Commission pursuant to authority granted in the Federal securities laws (as such term is defined in section 3(a)(47) of the Securities Exchange Act of 1934, 15 U.S.C. 78c(a)(47)), which authority shall include, but not be limited to, section 21(a) of the Securities Exchange Act of 1934, 15 U.S.C. 78u(a)).
- 15. To members of advisory committees that are created by the Commission or by Congress to render advice and recommendations to the Commission or to Congress, to be used solely in connection with their official designated functions.
- 16. To any person who is or has agreed to be subject to the Commission's Rules of Conduct, 17 CFR 200.735-1 through 200.735-18, and who assists in the investigation by the Commission of possible violations of the Federal securities laws (as such term is defined in section 3(a)(47) of the Securities Exchange Act of 1934, 15 U.S.C. 78c(a)(47)), in the preparation or conduct of enforcement actions brought by the Commission for such violations, or otherwise in connection with the Commission's enforcement or regulatory functions under the Federal securities laws.
- 17. To a Congressional office from the record of an individual in response to an inquiry from the Congressional office made at the request of that individual.
- 18. To members of Congress, the press, and the public in response to inquiries relating to particular Registrants and their activities, and other matters under the Commission's jurisdiction.
- 19. To prepare and publish information relating to violations of the Federal securities laws as provided in 15 U.S.C. 78c(a)(47)), as amended.
- 20. To respond to subpoenas in any litigation or other proceeding.
- 21. To a trustee in bankruptcy.
- 22. To any governmental agency, governmental or private collection agent, consumer reporting agency or commercial reporting agency, governmental or private employer of a debtor, or any other person, for collection,

including collection by administrative offset, Federal salary offset, tax refund offset, or administrative wage garnishment, of amounts owed as a result of Commission civil or administrative proceedings.

23. To another Federal agency or Federal entity, when the SEC determines that information from this system of records is reasonably necessary to assist the recipient agency or entity in (1) responding to a suspected or confirmed breach or (2) preventing, minimizing, or remedying the risk of harm to individuals, the recipient agency or entity (including its information systems, programs, and operations), the Federal Government, or national security, resulting from a suspected or confirmed breach.

* * * * *

Small Business Owners: The SEC always welcomes comments on how it can better assist small businesses. If you would like more information, or have questions or comments about federal securities regulations as they affect small businesses, please contact the Office of Small Business Policy, in the SEC's Division of Corporation Finance, at 202-551-3460. If you would prefer to comment to someone outside of the SEC, you can contact the Small Business Regulatory Enforcement Ombudsman at http://www.sba.gov/ombudsman or toll free at 888-REG-FAIR. The Ombudsman's office receives comments from small businesses and annually evaluates federal agency enforcement activities for their responsiveness to the special needs of small business.



UNITED STATES SECURITIES AND EXCHANGE COMMISSION

100 PEARL STREET, SUITE 20-100 NEW YORK, NY 10004-2616

DIVISION OF ENFORCEMENT

February 27, 2024

VIA SECURE EMAIL

Prometheum Ember Capital, LLC c/o Martin H. Kaplan Gusrae Kaplan Nusbaum PLLC 120 Wall Street, Floor 25 New York, NY 10005 mkaplan@gusraekaplan.com

Re: C-08950

Dear Mr. Kaplan:

The enclosed subpoena has been issued pursuant to a formal order entered by the United States Securities and Exchange Commission. Pursuant to Rule 8 of the United States Securities and Exchange Commission's Rules Relating to Investigations, 17 C.F.R. § 203.8, I have enclosed a subpoena for documents issued to Prometheum Ember Capital, LLC ("ProCap") in connection with the above-referenced investigation.

The enclosed subpoena requires ProCap to produce documents to the SEC by March 12, 2024 to:

ENF-CPU U.S. Securities and Exchange Commission 14420 Albemarle Point Place, Suite 102 Chantilly, VA 20151-1750

For smaller electronic productions under 10MB in size, the materials may be emailed to the following email address: ENF-CPU@sec.gov.

Please	also provide	a duplicate co	opy of any	document p	roduction cover	letters to me a	ıt
(b)(6); (b)(7)(C) (a)se	ec.gov, (b)(6); (b)(7)(C) at (b)(6); (b)(7)(C) a	sec.gov, (b)	(6); (b)(7)(C)	at	
(b)(6); (b)(7)(C)	sec.gov, and (b)(6); (b)(7)(C)	at (b)(6);	ûsec.gov.	Additionally, p	olease include t	hε
SEC matter n	umber and the			attorney wh	ien responding		

Please carefully read the subpoena attachment, which contains, among other things, important instructions related to the manner of producing documents. In particular, if ProCap prefers to send us copies of original documents, the staff requests that you scan and produce hard copy documents, as well as electronic documents, in an electronic format consistent with the SEC Data Delivery Standards attached hereto. All electronic documents responsive to the subpoena, including all metadata, should also be produced in their native software format. If you have any questions concerning the production of documents in an electronic format, please contact me as soon as possible and in any event before producing documents. For security reasons, we strongly encourage the encryption of sensitive documents before production.

When producing the records, please consecutively number and mark each document produced with a symbol that identifies it as being produced by ProCap and provide an index which briefly identifies the documents produced.

In your cover letter(s) accompanying the production of responsive documents, please enclose a list briefly describing each item you send. The list should identify the paragraph(s) in the subpoena attachment to which each item responds. Please also state in the cover letter(s) whether you believe ProCap has met the obligations of the subpoena by searching carefully and thoroughly for everything called for by the subpoena and sending it all to us.

A copy of the subpoena should be included with the documents that are produced. Correspondence should reference case number and requesting SEC staff member.

Passwords for documents, files, compressed archives, and encrypted media should be provided separately either via email addressed to ENF-CPU@sec.gov, or in a separate cover letter mailed separately from the data. Password correspondence should reference case number and requesting SEC staff member.

In addition, for any documents that qualify as records of regularly conducted activities under Federal Rule of Evidence 902(11), please have the appropriate representative(s) of ProCap complete a business records certification (a sample of which is enclosed) and return it with the document production. Execution of this certification may allow the Commission to introduce the documents provided by ProCap in any subsequent judicial proceeding, without requiring the testimony of a records custodian.

Enclosed is a copy of the Commission's Form 1662, entitled "Supplemental Information for Persons Requested to Supply Information Voluntarily or Directed to Supply Information Pursuant to a Commission Subpoena." This form explains how we may use the information which ProCap provides to the Commission and has other important information.

This investigation is a non-public, fact-finding inquiry. We are trying to determine whether there have been any violations of the federal securities laws. The investigation does not mean that we have concluded that anyone has violated the law. Also, the investigation does not mean that we have a negative opinion of any person, entity, or security.

If you have any questions or would like to discuss this matter, you may contact me at (b)(6); (b)(7)(C)

Sincerely, (b)(6); (b)(7)(C) Division of Enforcement (b)(6); (b)(7)(C) (b)(6); (b)(7)(C) (sec.gov

Enclosures: Subpoena and Attachment

Business Records Certification SEC Data Delivery Standards

SEC Form 1662



SUBPOENA

UNITED STATES OF AMERICA SECURITIES AND EXCHANGE COMMISSION

C-08950

To: Prometheum Ember Capital, LLC c/o Martin H. Kaplan
Gusrae Kaplan Nusbaum PLLC
120 Wall Street, Floor 25
New York, NY 10005

YOU MUST PRODUCE everything specified in the Attachment to this subpoena to officers of the Securities and Exchange Commission, at the place, date and time specified below:

ENF-CPU, U.S. Securities and Exchange Commission, 14420 Albemarle Point Place, Suite 102 Chantilly, VA 20151-1750, no later than March 12, 2024.

YOU MUST TESTIFY before officers of the Securities and Exchange Commission, at the place, date and time specified below:

FEDERAL LAW REQUIRES YOU TO COMPLY WITH THIS SUBPOENA.

If you do not comply with this subpoena, the SEC may bring an action in Federal Court to enforce this subpoena. Failure to comply with a court order enforcing this subpoena may result in the court imposing a fine, imprisonment, or both.

By: (b)(6); (b)(7)(C) Date: February 27, 2024

U.S. Securities and Exchange Commission New York Regional Office 100 Pearl Street, Suite 20-100 New York, NY 10004-2616

I am an officer of the U.S. Securities and Exchange Commission authorized to issue subpoenas in this matter. The Securities and Exchange Commission has issued a formal order authorizing this investigation under Section 20(a) of the Securities Act of 1933.

NOTICE TO WITNESS: If you claim a witness fee or mileage, submit this subpoena with the claim voucher.

SUBPOENA ATTACHMENT FOR PROMETHEUM EMBER CAPITAL, LLC $\underline{\text{C-08950}}$

February 27, 2024

Definitions

As used in this subpoena, the words and phrases listed below shall have the following meanings:

- 1. "ProCap" means the entity doing business under the name "Prometheum Ember Capital, LLC" including parents, subsidiaries, affiliates, predecessors, successors, officers, directors, employees, agents, general partners, limited partners, partnerships and aliases, code names, or trade or business names used by any of the foregoing.
- 2. "Communication" means any correspondence, contact, discussion, e-mail, instant message, or any other kind of oral or written exchange or transmission of information (in the form of facts, ideas, inquiries, or otherwise), including but not limited to those made on Social Media Services, and any response thereto between two or more Persons or entities, including, without limitation, all telephone conversations, face-to-face meetings or conversations, internal or external discussions, or exchanges of a Document or Documents.
- 3. "Concerning" means directly or indirectly, in whole or in part, describing, constituting, evidencing, recording, evaluating, substantiating, concerning, referring to, alluding to, in connection with, commenting on, relating to, regarding, discussing, showing, analyzing or reflecting.
- 4. "ConsenSys" means the entity or business doing business under the name ConsenSys Software, Inc., including parents, subsidiaries, affiliates, predecessors, successors, officers, directors, employees, agents, general partners, limited partners, partnerships and aliases, owners, code names, or trade or business names used by any of the foregoing.
- 5. "Document" shall include, but is not limited to, any written, printed, or typed matter including, but not limited to all drafts and copies bearing notations or marks not found in the original, letters and correspondence, interoffice communications, slips, tickets, records, worksheets, financial records, accounting documents, bookkeeping documents, memoranda, reports, manuals, telephone logs, facsimiles, messages of any type, telephone messages, text messages, voice mails, tape recordings, notices, instructions, minutes, summaries, notes of meetings, file folder markings, and any other organizational indicia, purchase orders, information recorded by photographic process, including microfilm and microfiche, computer printouts, spreadsheets, and other electronically stored information, including writings, drawings, graphs, charts, photographs, sound recordings, images, and other data or data compilations that are stored in any medium from which information can be retrieved, obtained, manipulated, or translated.

- 6. "ETH" means Ether or the native crypto asset for the Ethereum blockchain and network.
- 7. "Ethereum Developers" refers to any anyone developing on the Ethereum blockchain and network, including, but not limited to, Ethereum protocol developers also known as Ethereum core developers.
- 8. The "Ethereum Foundation" means the entity or business doing business under the name "Ethereum Foundation," including, but not limited to, ethereum.org and parents, subsidiaries, affiliates, predecessors, successors, officers, directors, employees, agents, general partners, limited partners, partnerships and aliases, owners, code names, or trade or business names used by any of the foregoing.
- 9. "The Merge" or "Ethereum 2.0" means the transition by the Ethereum blockchain of its consensus mechanism from proof-of-work to proof-of-stake.
- 10. The term "You" and "Your" means the Person to whom or entity to which this subpoena was issued.
- 11. To the extent necessary to bring within the scope of this this subpoena any information or Documents that might otherwise be construed to be outside its scope:
 - a. the word "or" means "and/or";
 - b. the word "and" means "and/or";
 - c. the functional words "each," "every" "any" and "all" shall each be deemed to include each of the other functional words;
 - d. the masculine gender includes the female gender and the female gender includes the masculine gender; and
 - e. the singular includes the plural and the plural includes the singular.

Instructions

- 1. Unless otherwise specified, this subpoena calls for production of the original Documents and all copies and drafts of same. Documents responsive to this subpoena may be in electronic or paper form. Electronic Documents such as email should be produced in accordance with the attached Document entitled SEC Data Delivery Standards. All responsive electronic Documents, including all metadata, should also be produced in their native software format.
- 2. For Documents in paper format, you may send the originals, or, if you prefer, you may send copies of the originals. The Commission cannot reimburse you for the copying costs. If you are sending copies, the staff requests that you scan (rather than photocopy) hard copy Documents and produce them in an electronic format consistent with the SEC Data Delivery Standards. Alternatively, you may send us photocopies of the Documents in paper format. If you choose to send copies, you <u>must</u> secure and retain the originals and store them in a safe place. The staff may later request or require that you produce the originals.

- 3. Whether you scan or photocopy Documents, the copies must be identical to the originals, including even faint marks or print. Also, please note that if copies of a Document differ in any way, they are considered separate Documents and you must send each one. For example, if you have two copies of the same letter, but only one of them has handwritten notes on it, you must send both the clean copy and the one with notes.
- 4. In producing a photocopy of an original Document that contains post-it(s), notation flag(s), or other removable markings or attachments which may conceal all or a portion of the markings contained in the original Document, photocopies of the original Document both with and without the relevant post-it(s), notation flag(s), or removable markings or attachments should be produced.
- 5. Documents should be produced as they are kept in the ordinary course of business or be organized and labeled to correspond with the categories in this request. In that regard, Documents should be produced in a unitized manner, i.e., delineated with staples or paper clips to identify the Document boundaries.
- 6. Documents should be labeled with sequential numbering (bates-stamped).
- 7. The scope of any given request should not be limited or narrowed on the basis that it calls for Documents that are responsive to another request.
- 8. This subpoena covers all Documents in or subject to your possession, custody or control, including all Documents that are not in your immediate possession but that you have the effective ability to obtain, that are responsive, in whole or in part, to any of the individual requests set forth below. If, for any reason including a claim of attorney-client privilege you do not produce something called for by the request, you should submit a list of what you are not producing. The list should describe each item separately, noting:
 - a. its author(s);
 - b. its date:
 - c. its subject matter;
 - d. the name of the Person who has the item now, or the last Person known to have it;
 - e. the names of everyone who ever had the item or a copy of it, and the names of everyone who was told the item's contents;
 - f. the basis upon which you are not producing the responsive Document;
 - g. the specific request in the subpoena to which the Document relates;
 - h. the attorney(s) and the client(s) involved; and
 - i. in the case of the work product doctrine, the litigation for which the Document was prepared in anticipation.
- 9. If Documents responsive to this subpoena no longer exist because they have been lost, discarded, or otherwise destroyed, you should identify such Documents and give the date on which they were lost, discarded, or destroyed.

Documents to be Produced

- 1. Documents and Communications Concerning any legal analysis of ETH, the Merge, or Ethereum 2.0, including, but not limited to, Communications with the Ethereum Foundation, ConsenSys, or Ethereum Developers. Please note that the above Instructions discuss the procedures for how to handle privileged documents.
- 2. Documents upon which You relied in any analysis responsive to Request No. 1 above.
- 3. Communications with any regulator or government agency in the U.S. or a foreign country Concerning ETH, the Merge, or Ethereum 2.0, including, but not limited to, Communications by attorneys or agents representing you.

DECLARATION OF [Insert Name] CERTIFYING RECORDS OF REGULARLY CONDUCTED BUSINESS ACTIVITY

I, the undersigned, [insert name], pursuant to 28 U.S.C. § 1746, declare that:

- 1. I am employed by [insert name of company] as [insert position] and by reason of my position am authorized and qualified to make this declaration. [if possible supply additional information as to how person is qualified to make declaration, e.g., I am custodian of records, I am familiar with the company's recordkeeping practices or systems, etc.]
- 2. I further certify that the documents [attached hereto or submitted herewith] and stamped [insert bates range] are true copies of records that were:
 - (a) made at or near the time of the occurrence of the matters set forth therein, by, or from information transmitted by, a person with knowledge of those matters;
 - (b) kept in the course of regularly conducted business activity; and
 - (c) made by the regularly conducted business activity as a regular practice.

I declare under penalty of perjury that the foregoing is true and correct. Executed on [date].

-	[Name]	



U.S. Securities and Exchange Commission

Data Delivery Standards

This document describes the technical requirements for paper and electronic document productions to the U.S. Securities and Exchange Commission (SEC). **Any questions or proposed file formats other than those described below must be discussed with the legal and technical staff of the SEC Division of Enforcement prior to submission. **

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General Instructions

Congred Instructions

The current mailing address for all physical productions sent to the SEC is:

ENF-CPU (U.S. Securities & Exchange Commission), 14420 Albemarle Point Place, Suite 102, Chantilly, VA 20151-1750

Electronic files must be produced in their native format, i.e. the format in which they are ordinarily used and maintained during the normal course of business. For example, an MS Excel file must be produced as an MS Excel file rather than an image of a spreadsheet. (Note: An Adobe PDF file is not considered a native file unless the document was initially created as a PDF.)

In the event produced files require the use of proprietary software not commonly found in the workplace, the SEC will explore other format options with the producing party.

The proposed use of file de-duplication methodologies or computer-assisted review or technology-assisted review (TAR) during the processing of documents must be discussed with and approved by the legal and technical staff of the Division of Enforcement (ENF). If your production will be de-duplicated it is vital that you 1) preserve any unique metadata associated with the duplicate files, for example, custodian name and file location and, 2) make that unique metadata part of your production to the SEC.

General requirements for ALL document productions are:

- 1. A cover letter must be included with each production and should include the following information:
 - Case number, case name and requesting SEC staff member name
 - b. A list of each piece of media included in the production with its unique production volume number
 - c. A list of custodians, identifying the Bates range for each custodian
 - d. A list of redacted documents and the redaction reason
 - c. The time zone in which the emails were standardized during conversion
 - f. Whether the production contains native files produced from Mac operating system environments
- Data can be produced on CD, DVD, thumb drive, etc., using the media requiring the least number of deliverables and labeled with the following:
 - a. Case number
 - b. Production date
 - c. Producing party
 - d. Bates range (if applicable)
- All submissions must be organized by custodian unless otherwise instructed.
- All document family groups, i.e. email attachments, embedded files, etc., should be produced together and children files should follow parent files sequentially in the Bates numbering.
- All load-ready collections should include only one data load file and one image pointer file.
- All load-ready text must be produced as separate document-level text files.
- All load-ready collections should account for custodians in the custodian field.
- 8. All load-ready collections must provide the extracted contents of any container files to ensure all relevant files are produced as separate records.
- Audio files should be separated from data files if both are included in the production.
- 10. Only alphanumeric characters and the underscore character are permitted in file names and folder names. Special characters are not permitted.
- 11. All electronic productions submitted on media must be produced using industry standard self-extracting encryption software.
- 12. The SEC uses 7zip to access compressed files. Note that the SEC cannot accept files that use AES-256 Jpeg or pkAES-256-Cert Deflate compression methods, even if the files are created with 7zip. If you have any questions or need additional information, please reach out to the requesting SEC staff member.
- 13. Electronic productions of 30 GB or less are strongly encouraged to be submitted via Secure File Transfer. All Secure File Transfers should be sent to the SEC Centralized Production Unit (ENF-CPU@sec.gov) with a CC to the requesting SEC staff member. If you do not have your own Secure File Transfer application, you may reach out to the requesting SEC staff member for a link to the SEC system in order to upload your production. If using the SEC Secure File Transfer system, you will NOT be able to CC individuals outside the SEC on your upload transmission. Note that the SEC cannot accept productions made using file sharing sites such as Google Drive or Microsoft Office 365.
- 14. Productions containing BSA or SAR material must be encrypted. Secure File Transfer applications may be used to produce BSA or SAR material. BSA or SAR material should be segregated and appropriately marked as BSA or SAR, or should be produced separately from other case related records.
- 15. Passwords for electronic documents, files, compressed archives and encrypted media must be provided separately either via email or in a cover letter apart from the media.
- 16. All electronic productions should be produced free of computer viruses.
- 17. Before producing forensically collected images, parties should reach out to the requesting SEC staff member in order to discuss appropriate handling.
- 18. Before producing unique data sets (large sets of relational data, website reconstruction, chat room data, etc.), parties should reach out to the requesting SEC staff member in order to discuss an appropriate production format.
- Additional technical descriptions can be found in the addendum to this document.

Please note that productions sent to the SEC via United States Postal Service are subject to Mail Irradiation, and as a result electronic productions may be damaged.

Delivery Formats

Imaged Productions

The SEC prefers that all scanned paper and electronic file collections be produced in a structured format including industry standard load files, Bates numbered image files, native files and searchable document-level text files. Bates numbers should not contain spaces. Hyphens (-) and underscores (-) are acceptable.

1. Images

- Black and white images must be 300 DPI Group IV single-page TIFF files
- b. Color images must be produced in JPEG format
- File names cannot contain embedded spaces or special characters (including the comma)
- d. Folder names cannot contain embedded spaces or special characters (including the comma)
- e. All image files must have a unique file name, i.e. Bates number
- f. Images must be endorsed with sequential Bates numbers in the lower right corner of each image
- The number of image files per folder should not exceed 2,000 files g.
- h. Excel spreadsheets should have a placeholder image named by the Bates number of the file
- AUTOCAD/photograph files should be produced as a single page JPEG file

2. Image Cross-Reference File

The image cross-reference file (LOG or .OPT) links the images to the database records. It should be a comma-delimited file consisting of seven fields per line with a line in the cross-reference file for every image in the database with the following format:

ImageID, VolumeLabel, ImageFilePath, DocumentBreak, FolderBreak, BoxBreak, PageCount

3. Data File

The data file (.DAT) contains all of the fielded information that will be loaded into the database.

- The first line of the .DAT file must be a header row identifying the field names
- The .DAT file must use the following *Concordance*® default delimiters:

Comma ¶ ASCII character (020)

Quote b ASCII character (254)

- c. If the .DAT file is produced in Unicode format it must contain the byte order marker
- d. Date fields should be provided in the format: mm/dd/yyyy
- Date and time fields must be two separate fields
- The time zone must be included in all time fields f.
- If the production includes imaged emails and attachments, the attachment fields must be included to preserve the parent/child relationship between an email and its attachments
- An OCRPATH field must be included to provide the file path and name of the extracted text file on the produced storage media. The text file must be named after the FIRSTBATES. Do not include the text in the .DAT file.
- For productions with native files, a LINK field must be included to provide the file path and name of the native file on the produced storage media. The native file must be named after the FIRSTBATES.
- BEGATTACH and ENDATTACH fields must be two separate fields
- A complete list of metadata fields is available in Addendum A to this document

4. Text

Text must be produced as separate document-level text files, not as fields within the .DAT file. The text files must be named per the FIRSTBATES/Image Key and the full path to the text file (OCRPATII) should be included in the .DAT file. Text files may be in either ANSI or Unicode format, however, ALL text files must be in the same format within the same production. Note that productions containing text with foreign characters must produce text files in Unicode format to preserve the foreign characters. Text files must be in a separate folder, and the number of text files per folder should not exceed 2,000 files. There should be no special characters (including commas) in the folder names. For redacted documents, provide the full text for the redacted version.

Linked Native Files

Copies of original email and native file documents/attachments must be included for all electronic productions.

- a. Native file documents must be named per the FIRSTBATES number
- b. The full path of the native file must be provided in the .DAT file for the LINK field
- The number of native files per folder should not exceed 2,000 files

II. Native File Production without Load Files

With prior approval, native files may be produced without load files. Native file productions should not be Bates numbered. Native files must be produced as they are maintained in the normal course of business and organized by custodian-named file folders. Native email files (.PST or .MBOX) must be separated by custodian.

III. Adobe PDF File Production

With prior approval, Adobe PDF files may be produced in native file format.

- 1. All PDFs must be unitized at the document level, i.e. each PDF must represent a discrete document.
- 2. PDF files should be produced in separate folders named by the custodian. The folders should not contain any special characters (including commas).
- 3. All PDF files must contain embedded text that includes all discernible words within the document, not selected text or image only. This requires all layers of the PDF to be flattened first.
- 4. If PDF files are Bates endorsed, the PDF files must be named by the Bates range.

IV. Audio Files

Audio files from telephone recording systems must be produced in a format that is playable using Microsoft Windows Media PlayerTM. Additionally, the call information (metadata) related to each audio recording MUST be provided. The metadata file must be produced in a delimited text format. Field names must be included in the first row of the text file. The metadata must include, at a minimum, the following fields:

1) Caller Name: Caller's name or account/identification number

2) Originating Number: Caller's phone number3) Called Party Name: Called party's name

4) Terminating Number: Called party's phone number

5) Date: Date of call6) Time: Time of call

7) Filename: Filename of audio file

V. Video Files

Video files must be produced in a format that is playable using Microsoft Windows Media PlayerTM.

VI. Electronic Trade and Bank Records

When producing electronic trade records, bank records, or financial statements, provide the files in one of the following formats:

- 1. MS Excel spreadsheet with header information detailing the field structure. If any special codes exist in the dataset, a separate document must be provided that details all such codes. If details of the field structure do not fit in the header, a separate document must be provided that includes such details.
- 2. Delimited text file with header information detailing the field structure. The preferred delimiter is a vertical bar "|". If any special codes exist in the dataset, a separate document must be provided that details all such codes. If details of the field structure do not fit in the header, a separate document must be provided that includes such details.

VII. Electronic Phone Records

When producing an MS Excel spreadsheet for electronic phone records, provide the files in the following format:

- 1. MS Excel spreadsheet with header information detailing the field structure. If any special codes exist in the dataset, a separate document must be provided that details all such codes. If details of the field structure do not fit in the header, a separate document must be provided that includes such details. Data must be formatted in its native format (i.e. dates in a date format, numbers in an appropriate numerical format, and numbers with leading zeroes as text).
 - a. The metadata that must be included is outlined in **Addendum B** of this document. Each field of data must be loaded into a separate column. For example, Date and Start_Time must be produced in separate columns and not combined into a single column containing both pieces of information. Any fields of data that are provided in addition to those listed in **Addendum B** must also be loaded into separate columns.

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VIII. Audit Workpapers

The SEC prefers for workpapers to be produced in two formats: (1) With Bates numbers in accordance with the SEC Data Delivery Standards; and (2) in native format via laptop computer, web-based viewing platform, or otherwise, allowing for viewing in the same format and organization as the firm's audit team. Prior to production of workpapers via laptop computer or web-based viewing platform, audit firms should contact the requesting SEC staff member for additional information and written agreements addressing use of software, access, and viewing protocols.

IX. Mobile Device Data

Before producing any mobile device data (including but not limited to text messages and application data) parties should reach out to the requesting SEC staff member in order to discuss the appropriate production format. Productions containing chat data from applications must be identified at the time of production and the following information must be provided to the requesting SEC staff member and the SEC Centralized Production Unit: chat application, chat data format, and how the length of a chat is determined (i.e. set duration of time, number of minutes without messages, etc.)

ADDENDUM A

The metadata of electronic document collections should be extracted and provided in a .DAT file using the field definition and formatting described below:

Field Name	Sample Data	Description
FIRSTBATES	EDC0000001	First Bates number of native file document/email
LASTBATES	EDC0000001	Last Bates number of native file document/email
		**The LASTBATES field should be populated
		for single page documents/emails.
ATTACHRANGE	EDC0000001 - EDC0000015	Bates number of the first page of the parent
		document to the Bates number of the last page of the
		last attachment "child" document
BEGATTACH	EDC0000001	First Bates number of attachment range
ENDATTACH	EDC0000015	Last Bates number of attachment range
PARENT_BATES	EDC0000001	First Bates number of parent document/Email **This PARENT_BATES field should be populated
		in each record representing an attachment "child"
		document
CHILD BATES	EDC0000002; EDC0000014	First Bates number of "child" attachment(s); can be
		more than one Bates number listed depending on the
		number of attachments
		**The CHILD BATES field should be populated in
		each record representing a "parent" document
CUSTODIAN	Smith, John	Email: Mailbox where the email resided
		Native: Name of the individual or department from
		whose files the document originated
FROM	John Smith	Email: Sender
		Native: Author(s) of document
		**semi-colon should be used to separate multiple
		entries
TO	Coffman, Janice; LeeW	Recipient(s)
	[mailto:LecW@MSN.com]	**semi-colon should be used to separate multiple
		entries
CC	Frank Thompson [mailto:	Carbon copy recipient(s)
	frank_Thompson@cdt.com]	**semi-colon should be used to separate multiple
D.C.C.		entries
BCC	John Cain	Blind carbon copy recipient(s)
		**semi-colon should be used to separate multiple
SUBJECT	Board Meeting Minutes	entries Email: Subject line of the email
SUBJECT	Board Meeting Minutes	Native: Title of document (if available)
FILE_NAME	BoardMeetingMinutes.docx	Native: Name of the original native file, including
TILE_INVINE	Board.Meeting.Willules.docx	extension
DATE SENT	10/12/2010	Email: Date the email was sent
DATE SERVE	10/12/2010	Native: (empty)
TIME SENT/TIME	07:05 PM GMT	Email: Time the email was sent/ Time zone in which
ZONE		the emails were standardized during conversion.
		Native: (empty)
		**This data must be a separate field and cannot be
		combined with the DATE_SENT field
TIME_ZONE	GMT	The time zone in which the emails were standardized
		during conversion.
		Email: Time zone
		Native: (empty)
	·	

LINK	D:\001\EDC0000001.msg	Hyperlink to the email or native file document **The linked file must be named per the FIRSTBATES number
MIME_TYPE	application/msword	The content type of an email or native file document as identified/extracted from the header
FILE_EXTEN	MSG	The file type extension representing the email or native file document; will vary depending on the format
AUTHOR	John Smith	Email: (empty) Native: Author of the document
LAST_AUTHOR	Jane Doe	Email: (empty) Native: Last Author of the document
DATE_CREATED	10/10/2010	Email: (empty) Native: Date the document was created
TIME_CREATED/T IME_ZONE	10:25 AM GMT	Email: (empty) Native: Time the document was created including time zone **This data must be a separate field and cannot be combined with the DATE_CREATED field
DATE_MOD	10/12/2010	Email: (empty) Native: Date the document was last modified
TIME_MOD/TIME_ ZONE	07:00 PM GMT	Email: (empty) Native: Time the document was last modified including the time zone **This data must be a separate field and cannot be combined with the DATE_MOD field
DATE_ACCESSD	10/12/2010	Email: (empty) Native: Date the document was last accessed
TIME_ACCESSD/T IME_ZONE	07:00 PM GMT	Email: (empty) Native: Time the document was last accessed including the time zone **This data must be a separate field and cannot be combined with the DATE_ACCESSD field
PRINTED_DATE	10/12/2010	Email: (empty) Native: Date the document was last printed
FILE_SIZE	5,952	Size of native file document/email in KB
PGCOUNT	1	Number of pages in native file document/email
PATH	J:\Shared\SmithJ\October Agenda.doc	Email: (empty) Native: Path where native file document was stored including original file name.
INTFILEPATH	Personal Folders\Deleted Items\Board Meeting Minutes.msg	Email: original location of email including original file name. Native: (empty)
INTMSGID	<000805c2c71bS75977050Scb 8306d1@MSN>	Email: Unique Message ID Native: (empty)

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HEADER	Return-Path: <example_from@dc.edu> X-SpamCatcher-Score:1[X] Received:from[136.167.40.119] (HELO dc.edu) by fe3.dc.edu (CommuniGate Pro SMTP4.1.8) with ESMTP-TLS id 61258719 for example_to@mail.dc.edu; Mon, 23 Aug 2004 11:40:10 - 0400 Message-ID: <<4129F3CA.2020509@dc.edu> Date: Mon, 23 Aug 2005 11:40:36 -400 From: Taylor Evans <example_from@dc.edu> User-Agent:Mozilla/5.0 (Windows;U; Windows NT 5.1: en-US;rv:1.0.1) Gecko/20020823 Netscape/7.0 X-Accept-Language:en-us,en MIME-Version:1.0 To: Jon Smith <example_to@mail.dc.edu> Subject:Business Development Meeting Content-Type: text/plain;charset=us-ascii; format=flowed Content-Transfer-Encoding:7bit</example_to@mail.dc.edu></example_from@dc.edu></example_from@dc.edu>	
SHA256	AD6128C5CA40164AF71A1E FC800E12D2F195CE07BB5F8 C813B0888A2DDE6A06F	SHA-256 hash value of the document.
OCRPATH	TEXT/001/EDC0000001.txt	Path to extracted text of the native file

Sample Image Cross-Reference File:

IMG000001,,E:\001\IMG0000001.TIF,Y,,,
IMG0000002,,E:\001\IMG0000002.TIF,,,,
IMG0000003,,E:\001\IMG0000003.TIF,,,,
IMG0000004,,E:\001\IMG0000005.TIF,Y,,,
IMG0000005,,E:\001\IMG0000005.TIF,Y,,,
IMG0000006,,E:\001\IMG0000006.TIF,,,,,

ADDENDUM B

For Electronic Phone Records, include the following fields in separate columns:

For Calls:

- 1) Account Number
- 2) Connection Date Date the call was received or made
- 3) Connection Time Time call was received or made
- 4) Seizure Time Time it took for the call to be placed in seconds
- 5) Originating Number Phone that placed the call
- 6) Terminating Number Phone that received the call
- 7) Elapsed Time The length of time the call lasted, preferably in seconds
- 8) End Time The time the call ended
- 9) Number Dialed Actual number dialed
- 10) IMEI Originating Unique id to phone used to make call
- 11) IMEI Terminating-Unique id to phone used to receive call
- 12) IMSI Originating Unique id to phone used to make call
- 13) IMSI Terminating- Unique id to phone used to receive call
- 14) Call Codes Identify call direction or other routing information
- 15) Time Zone Time Zone in which the call was received or placed, if applicable

For Text messages:

- 1) Account Number
- 2) Connection Date Date the text was received or made
- 3) Connection Time Time text was received or made
- 4) Originating Number Who placed the text
- 5) Terminating Number Who received the text
- 6) IMEI Originating Unique id to phone used to make text
- 7) IMEI Terminating—Unique id to phone used to receive text
- 8) IMSI Originating Unique id to phone used to make text
- 9) IMSI Terminating- Unique id to phone used to receive text
- 10) Text Code Identify text direction, or other text routing information
- 11) Text Type Code Type of text message (sent SMS, MMS, or other)
- 12) Time Zone Time Zone in which the call was received or placed, if applicable

For Mobile Data Usage:

- 1) Account Number
- Connection Date Date the data was received or made
- 3) Connection Time Time data was received or made
- 4) Originating number Number that used data
- 5) IMEI Originating Unique id of phone that used data
- 6) IMSI Originating Unique id of phone that used data
- 7) Data or Data codes Identify data direction, or other data routing information
- 8) Time Zone Time Zone in which the call was received or placed, if applicable

SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549

Supplemental Information for Persons Requested to Supply Information Voluntarily or Directed to Supply Information Pursuant to a Commission Subpoena

A. False Statements and Documents

Section 1001 of Title 18 of the United States Code provides that fines and terms of imprisonment may be imposed upon:

[W]hoever, in any matter within the jurisdiction of the executive, legislative, or judicial branch of the Government of the United States, knowingly and willfully--

- (1) falsifies, conceals, or covers up by any trick, scheme, or device a material fact;
- (2) makes any materially false, fictitious, or fraudulent statement or representation; or
- (3) makes or uses any false writing or document knowing the same to contain any materially false, fictitious, or fraudulent statement or entry.

Section 1519 of Title 18 of the United States Code provides that fines and terms of imprisonment may be imposed upon:

Whoever knowingly alters, destroys, mutilates, conceals, covers up, falsifies, or makes a false entry in any record, document, or tangible object with the intent to impede, obstruct, or influence the investigation or proper administration of any matter within the jurisdiction of any department or agency of the United States . . ., or in relation to or contemplation of any such matter.

B. Testimony

If your testimony is taken, you should be aware of the following:

- 1. Record. Your testimony will be transcribed by a reporter. If you desire to go off the record, please indicate this to the Commission employee taking your testimony, who will determine whether to grant your request. The reporter will not go off the record at your, or your counsel's, direction.
- 2. Counsel. You have the right to be accompanied, represented and advised by counsel of your choice. Your counsel may advise you before, during and after your testimony; question you briefly at the conclusion of your testimony to clarify any of the answers you give during testimony; and make summary notes during your testimony solely for your use. If you are accompanied by counsel, you may consult privately.

If you are not accompanied by counsel, please advise the Commission employee taking your testimony if, during the testimony, you desire to be accompanied, represented and advised by counsel. Your testimony will be adjourned once to afford you the opportunity to arrange to be so accompanied, represented or advised.

You may be represented by counsel who also represents other persons involved in the Commission's investigation. This multiple representation, however, presents a potential conflict of interest if one client's interests are or may be adverse to another's. If you are represented by counsel who also represents other persons involved in the investigation, the Commission will assume that you and counsel have discussed and resolved all issues concerning possible conflicts of interest. The choice of counsel, and the responsibility for that choice, is yours.

3. Transcript Availability. Rule 6 of the Commission's Rules Relating to Investigations, 17 CFR 203.6, states:

A person who has submitted documentary evidence or testimony in a formal investigative proceeding shall be entitled, upon written request, to procure a copy of his documentary evidence or a transcript of his testimony on payment of the appropriate fees: *Provided, however*, That in a nonpublic formal investigative proceeding the Commission may for good cause deny such request. In any event, any witness, upon proper identification, shall have the right to inspect the official transcript of the witness' own testimony.

If you wish to purchase a copy of the transcript of your testimony, the reporter will provide you with a copy of the appropriate form. Persons requested to supply information voluntarily will be allowed the rights provided by this rule.

4. *Perjury.* Section 1621 of Title 18 of the United States Code provides that fines and terms of imprisonment may be imposed upon:

Whoever--

(1) having taken an oath before a competent tribunal, officer, or person, in any case in which a law of the United States authorizes an oath to be administered, that he will testify, declare,

depose, or certify truly, or that any written testimony, declaration, deposition, or certificate by him subscribed, is true, willfully and contrary to such oath states or subscribes any material matter which he does not believe to be true; or

- (2) in any declaration, certificate, verification, or statement under penalty of perjury as permitted under section 1746 of title 28, United States Code, willfully subscribes as true any material matter which he does not believe to be true.
- 5. Fifth Amendment and Voluntary Testimony. Information you give may be used against you in any federal, state, local or foreign administrative, civil or criminal proceeding brought by the Commission or any other agency.

You may refuse, in accordance with the rights guaranteed to you by the Fifth Amendment to the Constitution of the United States, to give any information that may tend to incriminate you.

If your testimony is not pursuant to subpoena, your appearance to testify is voluntary, you need not answer any question, and you may leave whenever you wish. Your cooperation is, however, appreciated.

6. Formal Order Availability. If the Commission has issued a formal order of investigation, it will be shown to you during your testimony, at your request. If you desire a copy of the formal order, please make your request in writing.

C. Submissions and Settlements

Rule 5(c) of the Commission's Rules on Informal and Other Procedures, 17 CFR 202,5(c), states:

Persons who become involved in . . . investigations may, on their own initiative, submit a written statement to the Commission setting forth their interests and position in regard to the subject matter of the investigation. Upon request, the staff, in its discretion, may advise such persons of the general nature of the investigation, including the indicated violations as they pertain to them, and the amount of time that may be available for preparing and submitting a statement prior to the presentation of a staff recommendation to the Commission for the commencement of an administrative or injunction proceeding. Submissions by interested persons should be forwarded to the appropriate Division Director or Regional Director with a copy to the staff members conducting the investigation and should be clearly referenced to the specific investigation to which they relate. In the event a recommendation for the commencement of an enforcement proceeding is presented by the staff, any submissions by interested persons will be forwarded to the Commission in conjunction with the staff memorandum.

The staff of the Commission routinely seeks to introduce submissions made pursuant to Rule 5(c) as evidence in Commission enforcement proceedings, when the staff deems appropriate.

Rule 5(f) of the Commission's Rules on Informal and Other Procedures, 17 CFR 202.5(f), states:

In the course of the Commission's investigations, civil lawsuits, and administrative proceedings, the staff, with appropriate authorization, may discuss with persons involved the disposition of such matters by consent, by settlement, or in some other manner. It is the policy of the Commission, however, that the disposition of any such matter may not, expressly or impliedly, extend to any criminal charges that have been, or may be, brought against any such person or any recommendation with respect thereto. Accordingly, any person involved in an enforcement matter before the Commission who consents, or agrees to consent, to any judgment or order does so solely for the purpose of resolving the claims against him in that investigative, civil, or administrative matter and not for the purpose of resolving any criminal charges that have been, or might be, brought against him. This policy reflects the fact that neither the Commission nor its staff has the authority or responsibility for instituting, conducting, settling, or otherwise disposing of criminal proceedings. That authority and responsibility are vested in the Attorney General and representatives of the Department of Justice.

D. Freedom of Information Act

The Freedom of Information Act, 5 U.S.C. 552 (the "FOIA"), generally provides for disclosure of information to the public. Rule 83 of the Commission's Rules on Information and Requests, 17 CFR 200.83, provides a procedure by which a person can make a written request that information submitted to the Commission not be disclosed under the FOIA. That rule states that no determination as to the validity of such a request will be made until a request for disclosure of the information under the FOIA is received. Accordingly, no response to a request that information not be disclosed under the FOIA is necessary or will be given until a request for disclosure under the FOIA is received. If you desire an acknowledgment of receipt of your written request that information not be disclosed under the FOIA, please provide a duplicate request, together with a stamped, self-addressed envelope.

E. Authority for Solicitation of Information

Persons Directed to Supply Information Pursuant to Subpoena. The authority for requiring production of information is set forth in the subpoena. Disclosure of the information to the Commission is mandatory, subject to the valid assertion of any legal right or privilege you might have.

Persons Requested to Supply Information Voluntarily. One or more of the following provisions authorizes the Commission to solicit the information requested: Sections 19 and/or 20 of the Securities Act of 1933; Section 21 of the Securities Exchange Act of 1934; Section 321 of the Trust Indenture Act of 1939; Section 42 of the Investment Company Act of 1940; Section 209 of the Investment Advisers Act of 1940; and 17 CFR 202.5. Disclosure of the requested information to the Commission is voluntary on your part.

F. Effect of Not Supplying Information

Persons Directed to Supply Information Pursuant to Subpoena. If you fail to comply with the subpoena, the Commission may seek a court order requiring you to do so. If such an order is obtained and you thereafter fail to supply the information, you may be subject to civil and/or criminal sanctions for contempt of court. In addition, Section 21(c) of the Securities Exchange Act of 1934, Section 42(c) of the Investment Company Act of 1940, and Section 209(c) of the Investment Advisers Act of 1940 provide that fines and terms of imprisonment may be imposed upon any person who shall, without just cause, fail or refuse to attend and testify or to answer any lawful inquiry, or to produce books, papers, correspondence, memoranda, and other records in compliance with the subpoena.

Persons Requested to Supply Information Voluntarily. There are no direct sanctions and thus no direct effects for failing to provide all or any part of the requested information.

G. Principal Uses of Information

The Commission's principal purpose in soliciting the information is to gather facts in order to determine whether any person has violated, is violating, or is about to violate any provision of the federal securities laws or rules for which the Commission has enforcement authority, such as rules of securities exchanges and the rules of the Municipal Securities Rulemaking Board. Facts developed may, however, constitute violations of other laws or rules. Information provided may be used in Commission and other agency enforcement proceedings. Unless the Commission or its staff explicitly agrees to the contrary in writing, you should not assume that the Commission or its staff acquiesces in, accedes to, or concurs or agrees with, any position, condition, request, reservation of right, understanding, or any other statement that purports, or may be deemed, to be or to reflect a limitation upon the Commission's receipt, use, disposition, transfer, or retention, in accordance with applicable law, of information provided.

H. Routine Uses of Information

The Commission often makes its files available to other governmental agencies, particularly United States Attorneys and state prosecutors. There is a likelihood that information supplied by you will be made available to such agencies where appropriate. Whether or not the Commission makes its files available to other governmental agencies is, in general, a confidential matter between the Commission and such other governmental agencies.

Set forth below is a list of the routine uses which may be made of the information furnished.

- 1. To appropriate agencies, entities, and persons when (1) the SEC suspects or has confirmed that there has been a breach of the system of records, (2) the SEC has determined that as a result of the suspected or confirmed breach there is a risk of harm to individuals, the SEC (including its information systems, programs, and operations), the Federal Government, or national security; and (3) the disclosure made to such agencies, entities, and persons is reasonably necessary to assist in connection with the SEC's efforts to respond to the suspected or confirmed breach or to prevent, minimize, or remedy such harm.
- 2. To other Federal, state, local, or foreign law enforcement agencies; securities self-regulatory organizations; and foreign financial regulatory authorities to assist in or coordinate regulatory or law enforcement activities with the SEC.
- 3. To national securities exchanges and national securities associations that are registered with the SEC, the Municipal Securities Rulemaking Board; the Securities Investor Protection Corporation; the Public Company Accounting Oversight Board; the Federal banking authorities, including, but not limited to, the Board of Governors of the Federal Reserve System, the Comptroller of the Currency, and the Federal Deposit Insurance Corporation; state securities regulatory agencies or organizations; or regulatory authorities of a foreign government in connection with their regulatory or enforcement responsibilities.
- 4. By SEC personnel for purposes of investigating possible violations of, or to conduct investigations authorized by, the Federal securities laws.
- 5. In any proceeding where the Federal securities laws are in issue or in which the Commission, or past or present members of its staff, is a party or otherwise involved in an official capacity.
- 6. In connection with proceedings by the Commission pursuant to Rule 102(e) of its Rules of Practice, 17 CFR 201.102(e).

- 7. To a bar association, state accountancy board, or other Federal, state, local, or foreign licensing or oversight authority; or professional association or self-regulatory authority to the extent that it performs similar functions (including the Public Company Accounting Oversight Board) for investigations or possible disciplinary action.
- 8. To a Federal, state, local, tribal, foreign, or international agency, if necessary to obtain information relevant to the SEC's decision concerning the hiring or retention of an employee; the issuance of a security clearance; the letting of a contract; or the issuance of a license, grant, or other benefit.
- 9. To a Federal, state, local, tribal, foreign, or international agency in response to its request for information concerning the hiring or retention of an employee; the issuance of a security clearance; the reporting of an investigation of an employee; the letting of a contract; or the issuance of a license, grant, or other benefit by the requesting agency, to the extent that the information is relevant and necessary to the requesting agency's decision on the matter.
- 10. To produce summary descriptive statistics and analytical studies, as a data source for management information, in support of the function for which the records are collected and maintained or for related personnel management functions or manpower studies; may also be used to respond to general requests for statistical information (without personal identification of individuals) under the Freedom of Information Act.
- 11. To any trustee, receiver, master, special counsel, or other individual or entity that is appointed by a court of competent jurisdiction, or as a result of an agreement between the parties in connection with litigation or administrative proceedings involving allegations of violations of the Federal securities laws (as defined in section 3(a)(47) of the Securities Exchange Act of 1934, 15 U.S.C. 78c(a)(47)) or pursuant to the Commission's Rules of Practice, 17 CFR 201.100 through 900 or the Commission's Rules of Fair Fund and Disgorgement Plans, 17 CFR 201.1100 through 1106, or otherwise, where such trustee, receiver, master, special counsel, or other individual or entity is specifically designated to perform particular functions with respect to, or as a result of, the pending action or proceeding or in connection with the administration and enforcement by the Commission of the Federal securities laws or the Commission's Rules of Practice or the Rules of Fair Fund and Disgorgement Plans.
- 12. To any persons during the course of any inquiry, examination, or investigation conducted by the SEC's staff, or in connection with civil litigation, if the staff has reason to believe that the person to whom the record is disclosed may have further information about the matters related therein, and those matters appeared to be relevant at the time to the subject matter of the inquiry.
- 13. To interns, grantees, experts, contractors, and others who have been engaged by the Commission to assist in the performance of a service related to this system of records and who need access to the records for the purpose of assisting the Commission in the efficient administration of its programs, including by performing clerical, stenographic, or data analysis functions, or by reproduction of records by electronic or other means. Recipients of these records shall be required to comply with the requirements of the Privacy Act of 1974, as amended, 5 U.S.C.
- 14. In reports published by the Commission pursuant to authority granted in the Federal securities laws (as such term is defined in section 3(a)(47) of the Securities Exchange Act of 1934, 15 U.S.C. 78c(a)(47)), which authority shall include, but not be limited to, section 21(a) of the Securities Exchange Act of 1934, 15 U.S.C. 78u(a)).
- 15. To members of advisory committees that are created by the Commission or by Congress to render advice and recommendations to the Commission or to Congress, to be used solely in connection with their official designated functions.
- 16. To any person who is or has agreed to be subject to the Commission's Rules of Conduct, 17 CFR 200.735-1 through 200.735-18, and who assists in the investigation by the Commission of possible violations of the Federal securities laws (as such term is defined in section 3(a)(47) of the Securities Exchange Act of 1934, 15 U.S.C. 78c(a)(47)), in the preparation or conduct of enforcement actions brought by the Commission for such violations, or otherwise in connection with the Commission's enforcement or regulatory functions under the Federal securities laws.
- 17. To a Congressional office from the record of an individual in response to an inquiry from the Congressional office made at the request of that individual.
- 18. To members of Congress, the press, and the public in response to inquiries relating to particular Registrants and their activities, and other matters under the Commission's jurisdiction.
- 19. To prepare and publish information relating to violations of the Federal securities laws as provided in 15 U.S.C. 78c(a)(47)), as amended.
- 20. To respond to subpoenas in any litigation or other proceeding.
- 21. To a trustee in bankruptcy.
- 22. To any governmental agency, governmental or private collection agent, consumer reporting agency or commercial reporting agency, governmental or private employer of a debtor, or any other person, for collection,

including collection by administrative offset, Federal salary offset, tax refund offset, or administrative wage garnishment, of amounts owed as a result of Commission civil or administrative proceedings.

23. To another Federal agency or Federal entity, when the SEC determines that information from this system of records is reasonably necessary to assist the recipient agency or entity in (1) responding to a suspected or confirmed breach or (2) preventing, minimizing, or remedying the risk of harm to individuals, the recipient agency or entity (including its information systems, programs, and operations), the Federal Government, or national security, resulting from a suspected or confirmed breach.

* * * * *

Small Business Owners: The SEC always welcomes comments on how it can better assist small businesses. If you would like more information, or have questions or comments about federal securities regulations as they affect small businesses, please contact the Office of Small Business Policy, in the SEC's Division of Corporation Finance, at 202-551-3460. If you would prefer to comment to someone outside of the SEC, you can contact the Small Business Regulatory Enforcement Ombudsman at http://www.sba.gov/ombudsman or toll free at 888-REG-FAIR. The Ombudsman's office receives comments from small businesses and annually evaluates federal agency enforcement activities for their responsiveness to the special needs of small business.



UNITED STATES SECURITIES AND EXCHANGE COMMISSION

100 PEARL STREET, SUITE 20-100 NEW YORK, NY 10004-2616

DIVISION OF ENFORCEMENT

February 27, 2024

VIA SECURE EMAIL

Prometheum, Inc. c/o Martin H. Kaplan Gusrae Kaplan Nusbaum PLLC 120 Wall Street, Floor 25 New York, NY 10005 mkaplan@gusraekaplan.com

Re: C-08950

Dear Mr. Kaplan:

The enclosed subpoena has been issued pursuant to a formal order entered by the United States Securities and Exchange Commission. Pursuant to Rule 8 of the United States Securities and Exchange Commission's Rules Relating to Investigations, 17 C.F.R. § 203.8, I have enclosed a subpoena for documents issued to Prometheum, Inc. ("Prometheum") in connection with the above-referenced investigation.

The enclosed subpoena requires Prometheum to produce documents to the SEC by March 12, 2024 to:

ENF-CPU U.S. Securities and Exchange Commission 14420 Albemarle Point Place, Suite 102 Chantilly, VA 20151-1750

For smaller electronic productions under 10MB in size, the materials may be emailed to the following email address: ENF-CPU@sec.gov.

Please also provide a duplicate copy of any document production cover le	etters to me at
$(b)(6); (b)(7)(C)$ $@sec.gov, (b)(6); (b)(7)(C)$ $at^{(b)(6); (b)(7)(C)}$ $@sec.gov, (b)(6); (b)(7)(C)$ at	
(b)(6): (b)(7)(C) $ascc.gov$, and (b)(6): (b)(7)(C) at $ascc.gov$. Additionally, pleases	ase include the
SEC matter number and the name of the requesting attorney when responding.	

Please carefully read the subpoena attachment, which contains, among other things, important instructions related to the manner of producing documents. In particular, if Prometheum prefers to send us copies of original documents, the staff requests that you scan and produce hard copy documents, as well as electronic documents, in an electronic format consistent with the SEC Data Delivery Standards attached hereto. All electronic documents responsive to the subpoena, including all metadata, should also be produced in their native software format. If you have any questions concerning the production of documents in an electronic format, please contact me as soon as possible and in any event before producing documents. For security reasons, we strongly encourage the encryption of sensitive documents before production.

When producing the records, please consecutively number and mark each document produced with a symbol that identifies it as being produced by Prometheum and provide an index which briefly identifies the documents produced.

In your cover letter(s) accompanying the production of responsive documents, please enclose a list briefly describing each item you send. The list should identify the paragraph(s) in the subpoena attachment to which each item responds. Please also state in the cover letter(s) whether you believe Prometheum has met the obligations of the subpoena by searching carefully and thoroughly for everything called for by the subpoena and sending it all to us.

A copy of the subpoena should be included with the documents that are produced. Correspondence should reference case number and requesting SEC staff member.

Passwords for documents, files, compressed archives, and encrypted media should be provided separately either via email addressed to ENF-CPU@sec.gov, or in a separate cover letter mailed separately from the data. Password correspondence should reference case number and requesting SEC staff member.

In addition, for any documents that qualify as records of regularly conducted activities under Federal Rule of Evidence 902(11), please have the appropriate representative(s) of Prometheum complete a business records certification (a sample of which is enclosed) and return it with the document production. Execution of this certification may allow the Commission to introduce the documents provided by Prometheum in any subsequent judicial proceeding, without requiring the testimony of a records custodian.

Enclosed is a copy of the Commission's Form 1662, entitled "Supplemental Information for Persons Requested to Supply Information Voluntarily or Directed to Supply Information Pursuant to a Commission Subpoena." This form explains how we may use the information which Prometheum provides to the Commission and has other important information.

This investigation is a non-public, fact-finding inquiry. We are trying to determine whether there have been any violations of the federal securities laws. The investigation does not mean that we have concluded that anyone has violated the law. Also, the investigation does not mean that we have a negative opinion of any person, entity, or security.

If you hay	ye any questions	or would like to	discuss this matte	r, you may	contact me at
(b)(6); (b)(7)(C)] ' '				

Sincerely,	
(b)(6); (b)(7)(C)	
Division of Enfor	çcement
(b)(6); (b)(7)(C) @sec.go	OV

Enclosures:

Subpoena and Attachment Business Records Certification SEC Data Delivery Standards SEC Form 1662



SUBPOENA

UNITED STATES OF AMERICA SECURITIES AND EXCHANGE COMMISSION

C-08950

To: Prometheum, Inc. c/o Martin H. Kaplan Gusrae Kaplan Nusbaum PLLC 120 Wall Street, Floor 25 New York, NY 10005

YOU MUST PRODUCE everything specified in the Attachment to this subpoena to officers of the Securities and Exchange Commission, at the place, date and time specified below:

ENF-CPU, U.S. Securities and Exchange Commission, 14420 Albemarle Point Place, Suite 102 Chantilly, VA 20151-1750, no later than March 12, 2024.

YOU MUST TESTIFY before officers of the Securities and Exchange Commission, at the place, date and time specified below:

FEDERAL LAW REQUIRES YOU TO COMPLY WITH THIS SUBPOENA.

If you do not comply with this subpoena, the SEC may bring an action in Federal Court to enforce this subpoena. Failure to comply with a court order enforcing this subpoena may result in the court imposing a fine, imprisonment, or both.

By: (b)(6); (b)(7)(C) Date: February 27, 2024

U.S. Securities and Exchange Commission New York Regional Office 100 Pearl Street, Suite 20-100 New York, NY 10004-2616

I am an officer of the U.S. Securities and Exchange Commission authorized to issue subpoenas in this matter. The Securities and Exchange Commission has issued a formal order authorizing this investigation under Section 20(a) of the Securities Act of 1933.

NOTICE TO WITNESS: If you claim a witness fee or mileage, submit this subpoena with the claim voucher.

SUBPOENA ATTACHMENT FOR PROMETHEUM, INC.

C-08950

February 27, 2024

Definitions

As used in this subpoena, the words and phrases listed below shall have the following meanings:

- 1. "Prometheum, Inc." means the entity doing business under the name "Prometheum, Inc.," including parents, subsidiaries, affiliates, predecessors, successors, officers, directors, employees, agents, general partners, limited partners, partnerships and aliases, code names, or trade or business names used by any of the foregoing.
- 2. "Communication" means any correspondence, contact, discussion, e-mail, instant message, or any other kind of oral or written exchange or transmission of information (in the form of facts, ideas, inquiries, or otherwise), including but not limited to those made on Social Media Services, and any response thereto between two or more Persons or entities, including, without limitation, all telephone conversations, face-to-face meetings or conversations, internal or external discussions, or exchanges of a Document or Documents.
- 3. "Concerning" means directly or indirectly, in whole or in part, describing, constituting, evidencing, recording, evaluating, substantiating, concerning, referring to, alluding to, in connection with, commenting on, relating to, regarding, discussing, showing, analyzing or reflecting.
- 4. "ConsenSys" means the entity or business doing business under the name ConsenSys Software, Inc., including parents, subsidiaries, affiliates, predecessors, successors, officers, directors, employees, agents, general partners, limited partners, partnerships and aliases, owners, code names, or trade or business names used by any of the foregoing.
- 5. "Document" shall include, but is not limited to, any written, printed, or typed matter including, but not limited to all drafts and copies bearing notations or marks not found in the original, letters and correspondence, interoffice communications, slips, tickets, records, worksheets, financial records, accounting documents, bookkeeping documents, memoranda, reports, manuals, telephone logs, facsimiles, messages of any type, telephone messages, text messages, voice mails, tape recordings, notices, instructions, minutes, summaries, notes of meetings, file folder markings, and any other organizational indicia, purchase orders, information recorded by photographic process, including microfilm and microfiche, computer printouts, spreadsheets, and other electronically stored information, including writings, drawings, graphs, charts, photographs, sound recordings, images, and other data or data compilations that are stored in any medium from which information can be retrieved, obtained, manipulated, or translated.

- 6. "ETH" means Ether or the native crypto asset for the Ethereum blockchain and network.
- 7. "Ethereum Developers" refers to any anyone developing on the Ethereum blockchain and network, including, but not limited to, Ethereum protocol developers also known as Ethereum core developers.
- 8. The "Ethereum Foundation" means the entity or business doing business under the name "Ethereum Foundation," including, but not limited to, ethereum.org and parents, subsidiaries, affiliates, predecessors, successors, officers, directors, employees, agents, general partners, limited partners, partnerships and aliases, owners, code names, or trade or business names used by any of the foregoing.
- 9. "The Merge" or "Ethereum 2.0" means the transition by the Ethereum blockchain of its consensus mechanism from proof-of-work to proof-of-stake.
- 10. The term "You" and "Your" means the Person to whom or entity to which this subpoena was issued.
- 11. To the extent necessary to bring within the scope of this this subpoena any information or Documents that might otherwise be construed to be outside its scope:
 - a. the word "or" means "and/or";
 - b. the word "and" means "and/or";
 - c. the functional words "each," "every" "any" and "all" shall each be deemed to include each of the other functional words;
 - d. the masculine gender includes the female gender and the female gender includes the masculine gender; and
 - e. the singular includes the plural and the plural includes the singular.

Instructions

- 1. Unless otherwise specified, this subpoena calls for production of the original Documents and all copies and drafts of same. Documents responsive to this subpoena may be in electronic or paper form. Electronic Documents such as email should be produced in accordance with the attached Document entitled SEC Data Delivery Standards. All responsive electronic Documents, including all metadata, should also be produced in their native software format.
- 2. For Documents in paper format, you may send the originals, or, if you prefer, you may send copies of the originals. The Commission cannot reimburse you for the copying costs. If you are sending copies, the staff requests that you scan (rather than photocopy) hard copy Documents and produce them in an electronic format consistent with the SEC Data Delivery Standards. Alternatively, you may send us photocopies of the Documents in paper format. If you choose to send copies, you <u>must</u> secure and retain the originals and store them in a safe place. The staff may later request or require that you produce the originals.

- 3. Whether you scan or photocopy Documents, the copies must be identical to the originals, including even faint marks or print. Also, please note that if copies of a Document differ in any way, they are considered separate Documents and you must send each one. For example, if you have two copies of the same letter, but only one of them has handwritten notes on it, you must send both the clean copy and the one with notes.
- 4. In producing a photocopy of an original Document that contains post-it(s), notation flag(s), or other removable markings or attachments which may conceal all or a portion of the markings contained in the original Document, photocopies of the original Document both with and without the relevant post-it(s), notation flag(s), or removable markings or attachments should be produced.
- 5. Documents should be produced as they are kept in the ordinary course of business or be organized and labeled to correspond with the categories in this request. In that regard, Documents should be produced in a unitized manner, i.e., delineated with staples or paper clips to identify the Document boundaries.
- 6. Documents should be labeled with sequential numbering (bates-stamped).
- 7. The scope of any given request should not be limited or narrowed on the basis that it calls for Documents that are responsive to another request.
- 8. This subpoena covers all Documents in or subject to your possession, custody or control, including all Documents that are not in your immediate possession but that you have the effective ability to obtain, that are responsive, in whole or in part, to any of the individual requests set forth below. If, for any reason including a claim of attorney-client privilege you do not produce something called for by the request, you should submit a list of what you are not producing. The list should describe each item separately, noting:
 - a. its author(s);
 - b. its date:
 - c. its subject matter;
 - d. the name of the Person who has the item now, or the last Person known to have it;
 - e. the names of everyone who ever had the item or a copy of it, and the names of everyone who was told the item's contents;
 - f. the basis upon which you are not producing the responsive Document;
 - g. the specific request in the subpoena to which the Document relates;
 - h. the attorney(s) and the client(s) involved; and
 - i. in the case of the work product doctrine, the litigation for which the Document was prepared in anticipation.
- 9. If Documents responsive to this subpoena no longer exist because they have been lost, discarded, or otherwise destroyed, you should identify such Documents and give the date on which they were lost, discarded, or destroyed.

Documents to be Produced

- 1. Documents and Communications Concerning any legal analysis of ETH, the Merge, or Ethereum 2.0, including, but not limited to, Communications with the Ethereum Foundation, ConsenSys, or Ethereum Developers. Please note that the above Instructions discuss the procedures for how to handle privileged documents.
- 2. Documents upon which You relied in any analysis responsive to Request No. 1 above.
- 3. Communications with any regulator or government agency in the U.S. or a foreign country Concerning ETH, the Merge, or Ethereum 2.0, including, but not limited to, Communications by attorneys or agents representing you.

DECLARATION OF [Insert Name] CERTIFYING RECORDS OF REGULARLY CONDUCTED BUSINESS ACTIVITY

I, the undersigned, [insert name], pursuant to 28 U.S.C. § 1746, declare that:

- 1. I am employed by [insert name of company] as [insert position] and by reason of my position am authorized and qualified to make this declaration. [if possible supply additional information as to how person is qualified to make declaration, e.g., I am custodian of records, I am familiar with the company's recordkeeping practices or systems, etc.]
- 2. I further certify that the documents [attached hereto or submitted herewith] and stamped [insert bates range] are true copies of records that were:
 - (a) made at or near the time of the occurrence of the matters set forth therein, by, or from information transmitted by, a person with knowledge of those matters;
 - (b) kept in the course of regularly conducted business activity; and
 - (c) made by the regularly conducted business activity as a regular practice.

I declare under penalty of perjury that the foregoing is true and correct. Executed on [date].

[Name]	



U.S. Securities and Exchange Commission

Data Delivery Standards

This document describes the technical requirements for paper and electronic document productions to the U.S. Securities and Exchange Commission (SEC). **Any questions or proposed file formats other than those described below must be discussed with the legal and technical staff of the SEC Division of Enforcement prior to submission. **

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General Instructions

Conoral Instructions

The current mailing address for all physical productions sent to the SEC is:

ENF-CPU (U.S. Securities & Exchange Commission), 14420 Albemarle Point Place, Suite 102, Chantilly, VA 20151-1750

Electronic files must be produced in their native format, i.e. the format in which they are ordinarily used and maintained during the normal course of business. For example, an MS Excel file must be produced as an MS Excel file rather than an image of a spreadsheet. (Note: An Adobe PDF file is not considered a native file unless the document was initially created as a PDF.)

In the event produced files require the use of proprietary software not commonly found in the workplace, the SEC will explore other format options with the producing party.

The proposed use of file de-duplication methodologies or computer-assisted review or technology-assisted review (TAR) during the processing of documents must be discussed with and approved by the legal and technical staff of the Division of Enforcement (ENF). If your production will be de-duplicated it is vital that you 1) preserve any unique metadata associated with the duplicate files, for example, custodian name and file location and, 2) make that unique metadata part of your production to the SEC.

General requirements for ALL document productions are:

- 1. A cover letter must be included with each production and should include the following information:
 - a. Case number, ease name and requesting SEC staff member name
 - b. A list of each piece of media included in the production with its unique production volume number
 - c. A list of custodians, identifying the Bates range for each custodian
 - d. A list of redacted documents and the redaction reason
 - c. The time zone in which the emails were standardized during conversion
 - f. Whether the production contains native files produced from Mac operating system environments
- Data can be produced on CD, DVD, thumb drive, etc., using the media requiring the least number of deliverables and labeled with the following:
 - a. Case number
 - b. Production date
 - c. Producing party
 - d. Bates range (if applicable)
- 3. All submissions must be organized by **custodian** unless otherwise instructed.
- 4. All document family groups, i.e. email attachments, embedded files, etc., should be produced together and children files should follow parent files sequentially in the Bates numbering.
- 5. All load-ready collections should include only one data load file and one image pointer file.
- 6. All load-ready text must be produced as separate document-level text files.
- 7. All load-ready collections should account for custodians in the custodian field.
- All load-ready collections must provide the extracted contents of any container files to ensure all relevant files are produced as separate records.
- 9. Audio files should be separated from data files if both are included in the production.
- Only alphanumeric characters and the underscore character are permitted in file names and folder names. Special characters
 are not permitted.
- 11. All electronic productions submitted on media must be produced using industry standard self-extracting encryption software.
- 12. The SEC uses 7zip to access compressed files. Note that the SEC cannot accept files that use AES-256 Jpeg or pkAES-256-Cert Deflate compression methods, even if the files are created with 7zip. If you have any questions or need additional information, please reach out to the requesting SEC staff member.
- 13. Electronic productions of 30 GB or less are strongly encouraged to be submitted via Secure File Transfer. All Secure File Transfers should be sent to the SEC Centralized Production Unit (ENF-CPU@sec.gov) with a CC to the requesting SEC staff member. If you do not have your own Secure File Transfer application, you may reach out to the requesting SEC staff member for a link to the SEC system in order to upload your production. If using the SEC Secure File Transfer system, you will NOT be able to CC individuals outside the SEC on your upload transmission. Note that the SEC cannot accept productions made using file sharing sites such as Google Drive or Microsoft Office 365.
- 14. Productions containing BSA or SAR material must be encrypted. Secure File Transfer applications may be used to produce BSA or SAR material. BSA or SAR material should be segregated and appropriately marked as BSA or SAR, or should be produced separately from other case related records.
- 15. Passwords for electronic documents, files, compressed archives and encrypted media must be provided separately either via email or in a cover letter apart from the media.
- 16. All electronic productions should be produced free of computer viruses.
- 17. Before producing forensically collected images, parties should reach out to the requesting SEC staff member in order to discuss appropriate handling.
- 18. Before producing unique data sets (large sets of relational data, website reconstruction, chat room data, etc.), parties should reach out to the requesting SEC staff member in order to discuss an appropriate production format.
- Additional technical descriptions can be found in the addendum to this document.

Please note that productions sent to the SEC via United States Postal Service are subject to Mail Irradiation, and as a result electronic productions may be damaged.

Delivery Formats

Imaged Productions

The SEC prefers that all scanned paper and electronic file collections be produced in a structured format including industry standard load files, Bates numbered image files, native files and searchable document-level text files. Bates numbers should not contain spaces. Hyphens (-) and underscores (-) are acceptable.

1. Images

- Black and white images must be 300 DPI Group IV single-page TIFF files
- b. Color images must be produced in JPEG format
- File names cannot contain embedded spaces or special characters (including the comma)
- d. Folder names cannot contain embedded spaces or special characters (including the comma)
- e. All image files must have a unique file name, i.e. Bates number
- f. Images must be endorsed with sequential Bates numbers in the lower right corner of each image
- The number of image files per folder should not exceed 2,000 files g.
- h. Excel spreadsheets should have a placeholder image named by the Bates number of the file
- AUTOCAD/photograph files should be produced as a single page JPEG file

2. Image Cross-Reference File

The image cross-reference file (LOG or .OPT) links the images to the database records. It should be a comma-delimited file consisting of seven fields per line with a line in the cross-reference file for every image in the database with the following format:

ImageID, VolumeLabel, ImageFilePath, DocumentBreak, FolderBreak, BoxBreak, PageCount

3. Data File

The data file (.DAT) contains all of the fielded information that will be loaded into the database.

- The first line of the .DAT file must be a header row identifying the field names
- The .DAT file must use the following *Concordance*® default delimiters:

Comma ¶ ASCII character (020)

Quote b ASCII character (254)

- c. If the .DAT file is produced in Unicode format it must contain the byte order marker
- d. Date fields should be provided in the format: mm/dd/yyyy
- Date and time fields must be two separate fields
- The time zone must be included in all time fields f.
- If the production includes imaged emails and attachments, the attachment fields must be included to preserve the parent/child relationship between an email and its attachments
- An OCRPATH field must be included to provide the file path and name of the extracted text file on the produced storage media. The text file must be named after the FIRSTBATES. Do not include the text in the .DAT file.
- For productions with native files, a LINK field must be included to provide the file path and name of the native file on the produced storage media. The native file must be named after the FIRSTBATES.
- BEGATTACH and ENDATTACH fields must be two separate fields
- A complete list of metadata fields is available in Addendum A to this document

4. Text

Text must be produced as separate document-level text files, not as fields within the .DAT file. The text files must be named per the FIRSTBATES/Image Key and the full path to the text file (OCRPATII) should be included in the .DAT file. Text files may be in either ANSI or Unicode format, however, ALL text files must be in the same format within the same production. Note that productions containing text with foreign characters must produce text files in Unicode format to preserve the foreign characters. Text files must be in a separate folder, and the number of text files per folder should not exceed 2,000 files. There should be no special characters (including commas) in the folder names. For redacted documents, provide the full text for the redacted version.

Linked Native Files

Copies of original email and native file documents/attachments must be included for all electronic productions.

- a. Native file documents must be named per the FIRSTBATES number
- b. The full path of the native file must be provided in the .DAT file for the LINK field
- The number of native files per folder should not exceed 2,000 files

II. Native File Production without Load Files

With prior approval, native files may be produced without load files. Native file productions should not be Bates numbered. Native files must be produced as they are maintained in the normal course of business and organized by custodian-named file folders. Native email files (.PST or .MBOX) must be separated by custodian.

III. Adobe PDF File Production

With prior approval, Adobe PDF files may be produced in native file format.

- 1. All PDFs must be unitized at the document level, i.e. each PDF must represent a discrete document.
- 2. PDF files should be produced in separate folders named by the custodian. The folders should not contain any special characters (including commas).
- 3. All PDF files must contain embedded text that includes all discernible words within the document, not selected text or image only. This requires all layers of the PDF to be flattened first.
- 4. If PDF files are Bates endorsed, the PDF files must be named by the Bates range.

IV. Audio Files

Audio files from telephone recording systems must be produced in a format that is playable using Microsoft Windows Media PlayerTM. Additionally, the call information (metadata) related to each audio recording MUST be provided. The metadata file must be produced in a delimited text format. Field names must be included in the first row of the text file. The metadata must include, at a minimum, the following fields:

1) Caller Name: Caller's name or account/identification number

2) Originating Number: Caller's phone number3) Called Party Name: Called party's name

4) Terminating Number: Called party's phone number

5) Date: Date of call
6) Time: Time of call

7) Filename: Filename of audio file

V. Video Files

Video files must be produced in a format that is playable using Microsoft Windows Media PlayerTM.

VI. Electronic Trade and Bank Records

When producing electronic trade records, bank records, or financial statements, provide the files in one of the following formats:

- 1. MS Excel spreadsheet with header information detailing the field structure. If any special codes exist in the dataset, a separate document must be provided that details all such codes. If details of the field structure do not fit in the header, a separate document must be provided that includes such details.
- 2. Delimited text file with header information detailing the field structure. The preferred delimiter is a vertical bar "|". If any special codes exist in the dataset, a separate document must be provided that details all such codes. If details of the field structure do not fit in the header, a separate document must be provided that includes such details.

VII. Electronic Phone Records

When producing an MS Excel spreadsheet for electronic phone records, provide the files in the following format:

- 1. MS Excel spreadsheet with header information detailing the field structure. If any special codes exist in the dataset, a separate document must be provided that details all such codes. If details of the field structure do not fit in the header, a separate document must be provided that includes such details. Data must be formatted in its native format (i.e. dates in a date format, numbers in an appropriate numerical format, and numbers with leading zeroes as text).
 - a. The metadata that must be included is outlined in **Addendum B** of this document. Each field of data must be loaded into a separate column. For example, Date and Start_Time must be produced in separate columns and not combined into a single column containing both pieces of information. Any fields of data that are provided in addition to those listed in **Addendum B** must also be loaded into separate columns.

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Data Delivery Standards

VIII. Audit Workpapers

The SEC prefers for workpapers to be produced in two formats: (1) With Bates numbers in accordance with the SEC Data Delivery Standards; and (2) in native format via laptop computer, web-based viewing platform, or otherwise, allowing for viewing in the same format and organization as the firm's audit team. Prior to production of workpapers via laptop computer or web-based viewing platform, audit firms should contact the requesting SEC staff member for additional information and written agreements addressing use of software, access, and viewing protocols.

IX. Mobile Device Data

Before producing any mobile device data (including but not limited to text messages and application data) parties should reach out to the requesting SEC staff member in order to discuss the appropriate production format. Productions containing chat data from applications must be identified at the time of production and the following information must be provided to the requesting SEC staff member and the SEC Centralized Production Unit: chat application, chat data format, and how the length of a chat is determined (i.e. set duration of time, number of minutes without messages, etc.)

ADDENDUM A

The metadata of electronic document collections should be extracted and provided in a .DAT file using the field definition and formatting described below:

Field Name	Sample Data	Description
FIRSTBATES	EDC0000001	First Bates number of native file document/email
LASTBATES	EDC0000001	Last Bates number of native file document/email
		**The LASTBATES field should be populated
		for single page documents/emails.
ATTACHRANGE	EDC0000001 - EDC0000015	Bates number of the first page of the parent
		document to the Bates number of the last page of the
		last attachment "child" document
BEGATTACH	EDC0000001	First Bates number of attachment range
ENDATTACH	EDC0000015	Last Bates number of attachment range
PARENT_BATES	EDC0000001	First Bates number of parent document/Email **This PARENT_BATES field should be populated in each record representing an attachment "child" document
CHILD BATES	EDC0000002; EDC0000014	First Bates number of "child" attachment(s); can be
_		more than one Bates number listed depending on the
		number of attachments
		**The CHILD_BATES field should be populated in
		each record representing a "parent" document
CUSTODIAN	Smith, John	Email: Mailbox where the email resided
		Native: Name of the individual or department from
		whose files the document originated
FROM	John Smith	Email: Sender
		Native: Author(s) of document
		**semi-colon should be used to separate multiple entries
TO	Coffman, Janice; LeeW	Recipient(s)
	[mailto:LecW@MSN.com]	**semi-colon should be used to separate multiple entries
CC	Frank Thompson [mailto:	Carbon copy recipient(s)
	frank_Thompson@cdt.com]	**semi-colon should be used to separate multiple
	Trank_Thompson@edi.eom	entries
BCC	John Cain	Blind carbon copy recipient(s)
		**semi-colon should be used to separate multiple
		entries
SUBJECT	Board Meeting Minutes	Email: Subject line of the email
		Native: Title of document (if available)
FILE_NAME	BoardMeetingMinutes.docx	Native: Name of the original native file, including
		extension
DATE_SENT	10/12/2010	Email: Date the email was sent
		Native: (empty)
TIME_SENT/TIME	07:05 PM GMT	Email: Time the email was sent/ Time zone in which
_ZONE		the emails were standardized during conversion.
		Native: (empty)
		**This data must be a separate field and cannot be
TIME ZONE	CMT	combined with the DATE_SENT field
TIME_ZONE	GMT	The time zone in which the emails were standardized
		during conversion. Email: Time zone
		Native: (empty)
		racivos (empsy)

LINK	D:\001\EDC0000001.msg	Hyperlink to the email or native file document **The linked file must be named per the FIRSTBATES number
MIME_TYPE	application/msword	The content type of an email or native file document as identified/extracted from the header
FILE_EXTEN	MSG	The file type extension representing the email or native file document; will vary depending on the format
AUTHOR	John Smith	Email: (empty) Native: Author of the document
LAST_AUTHOR	Jane Doe	Email: (empty) Native: Last Author of the document
DATE_CREATED	10/10/2010	Email: (empty) Native: Date the document was created
TIME_CREATED/T IME_ZONE	10:25 AM GMT	Email: (empty) Native: Time the document was created including time zone **This data must be a separate field and cannot be combined with the DATE_CREATED field
DATE_MOD	10/12/2010	Email: (empty) Native: Date the document was last modified
TIME_MOD/TIME_ ZONE	07:00 PM GMT	Email: (empty) Native: Time the document was last modified including the time zone **This data must be a separate field and cannot be combined with the DATE_MOD field
DATE_ACCESSD	10/12/2010	Email: (empty) Native: Date the document was last accessed
TIME_ACCESSD/T IME_ZONE	07:00 PM GMT	Email: (empty) Native: Time the document was last accessed including the time zone **This data must be a separate field and cannot be combined with the DATE_ACCESSD field
PRINTED_DATE	10/12/2010	Email: (empty) Native: Date the document was last printed
FILE_SIZE	5,952	Size of native file document/email in KB
PGCOUNT	1	Number of pages in native file document/email
PATH	J:\Shared\SmithJ\October Agenda.doc	Email: (empty) Native: Path where native file document was stored including original file name.
INTFILEPATH	Personal Folders\Deleted Items\Board Meeting Minutes.msg	Email: original location of email including original file name. Native: (empty)
INTMSGID	<000805c2c71bS75977050Scb 8306d1@MSN>	Email: Unique Message ID Native: (empty)

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HEADER	Return-Path: <example_from@dc.edu> X-SpamCatcher-Score:1[X] Received:from[136.167.40.119] (HELO dc.edu) by fe3.dc.edu (CommuniGate Pro SMTP4.1.8) with ESMTP-TLS id 61258719 for example_to@mail.dc.edu; Mon, 23 Aug 2004 11:40:10 - 0400 Message-ID: <<4129F3CA.2020509@dc.edu> Date: Mon, 23 Aug 2005 11:40:36 -400 From: Taylor Evans <example_from@dc.edu> User-Agent:Mozilla/5.0 (Windows;U; Windows NT 5.1: en-US;rv:1.0.1) Gecko/20020823 Netscape/7.0 X-Accept-Language:en-us,en MIME-Version:1.0 To: Jon Smith <example_to@mail.dc.edu> Subject:Business Development Meeting Content-Type: text/plain;charset=us-ascii; format=flowed Content-Transfer-Encoding:7bit</example_to@mail.dc.edu></example_from@dc.edu></example_from@dc.edu>	
SHA256	AD6128C5CA40164AF71A1E FC800E12D2F195CE07BB5F8 C813B0888A2DDE6A06F	SHA-256 hash value of the document.
OCRPATH	TEXT/001/EDC0000001.txt	Path to extracted text of the native file

Sample Image Cross-Reference File:

IMG0000001,,E:\001\IMG0000001.TIF,Y,,,
IMG0000002,,E:\001\IMG0000002.TIF,,,,
IMG0000003,,E:\001\IMG0000004.TIF,Y,,,
IMG0000004,,E:\001\IMG0000005.TIF,Y,,,
IMG0000005,,E:\001\IMG0000005.TIF,Y,,,
IMG0000006,,E:\001\IMG0000006.TIF,,,,,

ADDENDUM B

For Electronic Phone Records, include the following fields in separate columns:

For Calls:

- 1) Account Number
- 2) Connection Date Date the call was received or made
- 3) Connection Time Time call was received or made
- 4) Seizure Time Time it took for the call to be placed in seconds
- 5) Originating Number Phone that placed the call
- 6) Terminating Number Phone that received the call
- 7) Elapsed Time The length of time the call lasted, preferably in seconds
- 8) End Time The time the call ended
- 9) Number Dialed Actual number dialed
- 10) IMEI Originating Unique id to phone used to make call
- 11) IMEI Terminating-Unique id to phone used to receive call
- 12) IMSI Originating Unique id to phone used to make call
- 13) IMSI Terminating- Unique id to phone used to receive call
- 14) Call Codes Identify call direction or other routing information
- 15) Time Zone Time Zone in which the call was received or placed, if applicable

For Text messages:

- 1) Account Number
- 2) Connection Date Date the text was received or made
- 3) Connection Time Time text was received or made
- 4) Originating Number Who placed the text
- 5) Terminating Number Who received the text
- 6) IMEI Originating Unique id to phone used to make text
- 7) IMEI Terminating—Unique id to phone used to receive text
- 8) IMSI Originating Unique id to phone used to make text
- 9) IMSI Terminating- Unique id to phone used to receive text
- 10) Text Code Identify text direction, or other text routing information
- 11) Text Type Code Type of text message (sent SMS, MMS, or other)
- 12) Time Zone Time Zone in which the call was received or placed, if applicable

For Mobile Data Usage:

- 1) Account Number
- Connection Date Date the data was received or made
- 3) Connection Time Time data was received or made
- 4) Originating number Number that used data
- 5) IMEI Originating Unique id of phone that used data
- 6) IMSI Originating Unique id of phone that used data
- 7) Data or Data codes Identify data direction, or other data routing information
- 8) Time Zone Time Zone in which the call was received or placed, if applicable

SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549

Supplemental Information for Persons Requested to Supply Information Voluntarily or Directed to Supply Information Pursuant to a Commission Subpoena

A. False Statements and Documents

Section 1001 of Title 18 of the United States Code provides that fines and terms of imprisonment may be imposed upon:

[W]hoever, in any matter within the jurisdiction of the executive, legislative, or judicial branch of the Government of the United States, knowingly and willfully--

- (1) falsifies, conceals, or covers up by any trick, scheme, or device a material fact;
- (2) makes any materially false, fictitious, or fraudulent statement or representation; or
- (3) makes or uses any false writing or document knowing the same to contain any materially false, fictitious, or fraudulent statement or entry.

Section 1519 of Title 18 of the United States Code provides that fines and terms of imprisonment may be imposed upon:

Whoever knowingly alters, destroys, mutilates, conceals, covers up, falsifies, or makes a false entry in any record, document, or tangible object with the intent to impede, obstruct, or influence the investigation or proper administration of any matter within the jurisdiction of any department or agency of the United States . . ., or in relation to or contemplation of any such matter.

B. Testimony

If your testimony is taken, you should be aware of the following:

- 1. Record. Your testimony will be transcribed by a reporter. If you desire to go off the record, please indicate this to the Commission employee taking your testimony, who will determine whether to grant your request. The reporter will not go off the record at your, or your counsel's, direction.
- 2. Counsel. You have the right to be accompanied, represented and advised by counsel of your choice. Your counsel may advise you before, during and after your testimony; question you briefly at the conclusion of your testimony to clarify any of the answers you give during testimony; and make summary notes during your testimony solely for your use. If you are accompanied by counsel, you may consult privately.

If you are not accompanied by counsel, please advise the Commission employee taking your testimony if, during the testimony, you desire to be accompanied, represented and advised by counsel. Your testimony will be adjourned once to afford you the opportunity to arrange to be so accompanied, represented or advised.

You may be represented by counsel who also represents other persons involved in the Commission's investigation. This multiple representation, however, presents a potential conflict of interest if one client's interests are or may be adverse to another's. If you are represented by counsel who also represents other persons involved in the investigation, the Commission will assume that you and counsel have discussed and resolved all issues concerning possible conflicts of interest. The choice of counsel, and the responsibility for that choice, is yours.

3. Transcript Availability. Rule 6 of the Commission's Rules Relating to Investigations, 17 CFR 203.6, states:

A person who has submitted documentary evidence or testimony in a formal investigative proceeding shall be entitled, upon written request, to procure a copy of his documentary evidence or a transcript of his testimony on payment of the appropriate fees: *Provided, however*, That in a nonpublic formal investigative proceeding the Commission may for good cause deny such request. In any event, any witness, upon proper identification, shall have the right to inspect the official transcript of the witness' own testimony.

If you wish to purchase a copy of the transcript of your testimony, the reporter will provide you with a copy of the appropriate form. Persons requested to supply information voluntarily will be allowed the rights provided by this rule.

4. *Perjury.* Section 1621 of Title 18 of the United States Code provides that fines and terms of imprisonment may be imposed upon:

Whoever--

(1) having taken an oath before a competent tribunal, officer, or person, in any case in which a law of the United States authorizes an oath to be administered, that he will testify, declare,

depose, or certify truly, or that any written testimony, declaration, deposition, or certificate by him subscribed, is true, willfully and contrary to such oath states or subscribes any material matter which he does not believe to be true; or

- (2) in any declaration, certificate, verification, or statement under penalty of perjury as permitted under section 1746 of title 28, United States Code, willfully subscribes as true any material matter which he does not believe to be true.
- 5. Fifth Amendment and Voluntary Testimony. Information you give may be used against you in any federal, state, local or foreign administrative, civil or criminal proceeding brought by the Commission or any other agency.

You may refuse, in accordance with the rights guaranteed to you by the Fifth Amendment to the Constitution of the United States, to give any information that may tend to incriminate you.

If your testimony is not pursuant to subpoena, your appearance to testify is voluntary, you need not answer any question, and you may leave whenever you wish. Your cooperation is, however, appreciated.

6. Formal Order Availability. If the Commission has issued a formal order of investigation, it will be shown to you during your testimony, at your request. If you desire a copy of the formal order, please make your request in writing.

C. Submissions and Settlements

Rule 5(c) of the Commission's Rules on Informal and Other Procedures, 17 CFR 202,5(c), states:

Persons who become involved in . . . investigations may, on their own initiative, submit a written statement to the Commission setting forth their interests and position in regard to the subject matter of the investigation. Upon request, the staff, in its discretion, may advise such persons of the general nature of the investigation, including the indicated violations as they pertain to them, and the amount of time that may be available for preparing and submitting a statement prior to the presentation of a staff recommendation to the Commission for the commencement of an administrative or injunction proceeding. Submissions by interested persons should be forwarded to the appropriate Division Director or Regional Director with a copy to the staff members conducting the investigation and should be clearly referenced to the specific investigation to which they relate. In the event a recommendation for the commencement of an enforcement proceeding is presented by the staff, any submissions by interested persons will be forwarded to the Commission in conjunction with the staff memorandum.

The staff of the Commission routinely seeks to introduce submissions made pursuant to Rule 5(c) as evidence in Commission enforcement proceedings, when the staff deems appropriate.

Rule 5(f) of the Commission's Rules on Informal and Other Procedures, 17 CFR 202.5(f), states:

In the course of the Commission's investigations, civil lawsuits, and administrative proceedings, the staff, with appropriate authorization, may discuss with persons involved the disposition of such matters by consent, by settlement, or in some other manner. It is the policy of the Commission, however, that the disposition of any such matter may not, expressly or impliedly, extend to any criminal charges that have been, or may be, brought against any such person or any recommendation with respect thereto. Accordingly, any person involved in an enforcement matter before the Commission who consents, or agrees to consent, to any judgment or order does so solely for the purpose of resolving the claims against him in that investigative, civil, or administrative matter and not for the purpose of resolving any criminal charges that have been, or might be, brought against him. This policy reflects the fact that neither the Commission nor its staff has the authority or responsibility for instituting, conducting, settling, or otherwise disposing of criminal proceedings. That authority and responsibility are vested in the Attorney General and representatives of the Department of Justice.

D. Freedom of Information Act

The Freedom of Information Act, 5 U.S.C. 552 (the "FOIA"), generally provides for disclosure of information to the public. Rule 83 of the Commission's Rules on Information and Requests, 17 CFR 200.83, provides a procedure by which a person can make a written request that information submitted to the Commission not be disclosed under the FOIA. That rule states that no determination as to the validity of such a request will be made until a request for disclosure of the information under the FOIA is received. Accordingly, no response to a request that information not be disclosed under the FOIA is necessary or will be given until a request for disclosure under the FOIA is received. If you desire an acknowledgment of receipt of your written request that information not be disclosed under the FOIA, please provide a duplicate request, together with a stamped, self-addressed envelope.

E. Authority for Solicitation of Information

Persons Directed to Supply Information Pursuant to Subpoena. The authority for requiring production of information is set forth in the subpoena. Disclosure of the information to the Commission is mandatory, subject to the valid assertion of any legal right or privilege you might have.

Persons Requested to Supply Information Voluntarily. One or more of the following provisions authorizes the Commission to solicit the information requested: Sections 19 and/or 20 of the Securities Act of 1933; Section 21 of the Securities Exchange Act of 1934; Section 321 of the Trust Indenture Act of 1939; Section 42 of the Investment Company Act of 1940; Section 209 of the Investment Advisers Act of 1940; and 17 CFR 202.5. Disclosure of the requested information to the Commission is voluntary on your part.

F. Effect of Not Supplying Information

Persons Directed to Supply Information Pursuant to Subpoena. If you fail to comply with the subpoena, the Commission may seek a court order requiring you to do so. If such an order is obtained and you thereafter fail to supply the information, you may be subject to civil and/or criminal sanctions for contempt of court. In addition, Section 21(c) of the Securities Exchange Act of 1934, Section 42(c) of the Investment Company Act of 1940, and Section 209(c) of the Investment Advisers Act of 1940 provide that fines and terms of imprisonment may be imposed upon any person who shall, without just cause, fail or refuse to attend and testify or to answer any lawful inquiry, or to produce books, papers, correspondence, memoranda, and other records in compliance with the subpoena.

Persons Requested to Supply Information Voluntarily. There are no direct sanctions and thus no direct effects for failing to provide all or any part of the requested information.

G. Principal Uses of Information

The Commission's principal purpose in soliciting the information is to gather facts in order to determine whether any person has violated, is violating, or is about to violate any provision of the federal securities laws or rules for which the Commission has enforcement authority, such as rules of securities exchanges and the rules of the Municipal Securities Rulemaking Board. Facts developed may, however, constitute violations of other laws or rules. Information provided may be used in Commission and other agency enforcement proceedings. Unless the Commission or its staff explicitly agrees to the contrary in writing, you should not assume that the Commission or its staff acquiesces in, accedes to, or concurs or agrees with, any position, condition, request, reservation of right, understanding, or any other statement that purports, or may be deemed, to be or to reflect a limitation upon the Commission's receipt, use, disposition, transfer, or retention, in accordance with applicable law, of information provided.

H. Routine Uses of Information

The Commission often makes its files available to other governmental agencies, particularly United States Attorneys and state prosecutors. There is a likelihood that information supplied by you will be made available to such agencies where appropriate. Whether or not the Commission makes its files available to other governmental agencies is, in general, a confidential matter between the Commission and such other governmental agencies.

Set forth below is a list of the routine uses which may be made of the information furnished.

- 1. To appropriate agencies, entities, and persons when (1) the SEC suspects or has confirmed that there has been a breach of the system of records, (2) the SEC has determined that as a result of the suspected or confirmed breach there is a risk of harm to individuals, the SEC (including its information systems, programs, and operations), the Federal Government, or national security; and (3) the disclosure made to such agencies, entities, and persons is reasonably necessary to assist in connection with the SEC's efforts to respond to the suspected or confirmed breach or to prevent, minimize, or remedy such harm.
- 2. To other Federal, state, local, or foreign law enforcement agencies; securities self-regulatory organizations; and foreign financial regulatory authorities to assist in or coordinate regulatory or law enforcement activities with the SEC.
- 3. To national securities exchanges and national securities associations that are registered with the SEC, the Municipal Securities Rulemaking Board; the Securities Investor Protection Corporation; the Public Company Accounting Oversight Board; the Federal banking authorities, including, but not limited to, the Board of Governors of the Federal Reserve System, the Comptroller of the Currency, and the Federal Deposit Insurance Corporation; state securities regulatory agencies or organizations; or regulatory authorities of a foreign government in connection with their regulatory or enforcement responsibilities.
- 4. By SEC personnel for purposes of investigating possible violations of, or to conduct investigations authorized by, the Federal securities laws.
- 5. In any proceeding where the Federal securities laws are in issue or in which the Commission, or past or present members of its staff, is a party or otherwise involved in an official capacity.
- 6. In connection with proceedings by the Commission pursuant to Rule 102(e) of its Rules of Practice, 17 CFR 201.102(e).

- 7. To a bar association, state accountancy board, or other Federal, state, local, or foreign licensing or oversight authority; or professional association or self-regulatory authority to the extent that it performs similar functions (including the Public Company Accounting Oversight Board) for investigations or possible disciplinary action.
- 8. To a Federal, state, local, tribal, foreign, or international agency, if necessary to obtain information relevant to the SEC's decision concerning the hiring or retention of an employee; the issuance of a security clearance; the letting of a contract; or the issuance of a license, grant, or other benefit.
- 9. To a Federal, state, local, tribal, foreign, or international agency in response to its request for information concerning the hiring or retention of an employee; the issuance of a security clearance; the reporting of an investigation of an employee; the letting of a contract; or the issuance of a license, grant, or other benefit by the requesting agency, to the extent that the information is relevant and necessary to the requesting agency's decision on the matter.
- 10. To produce summary descriptive statistics and analytical studies, as a data source for management information, in support of the function for which the records are collected and maintained or for related personnel management functions or manpower studies; may also be used to respond to general requests for statistical information (without personal identification of individuals) under the Freedom of Information Act.
- 11. To any trustee, receiver, master, special counsel, or other individual or entity that is appointed by a court of competent jurisdiction, or as a result of an agreement between the parties in connection with litigation or administrative proceedings involving allegations of violations of the Federal securities laws (as defined in section 3(a)(47) of the Securities Exchange Act of 1934, 15 U.S.C. 78c(a)(47)) or pursuant to the Commission's Rules of Practice, 17 CFR 201.100 through 900 or the Commission's Rules of Fair Fund and Disgorgement Plans, 17 CFR 201.1100 through 1106, or otherwise, where such trustee, receiver, master, special counsel, or other individual or entity is specifically designated to perform particular functions with respect to, or as a result of, the pending action or proceeding or in connection with the administration and enforcement by the Commission of the Federal securities laws or the Commission's Rules of Practice or the Rules of Fair Fund and Disgorgement Plans.
- 12. To any persons during the course of any inquiry, examination, or investigation conducted by the SEC's staff, or in connection with civil litigation, if the staff has reason to believe that the person to whom the record is disclosed may have further information about the matters related therein, and those matters appeared to be relevant at the time to the subject matter of the inquiry.
- 13. To interns, grantees, experts, contractors, and others who have been engaged by the Commission to assist in the performance of a service related to this system of records and who need access to the records for the purpose of assisting the Commission in the efficient administration of its programs, including by performing clerical, stenographic, or data analysis functions, or by reproduction of records by electronic or other means. Recipients of these records shall be required to comply with the requirements of the Privacy Act of 1974, as amended, 5 U.S.C.
- 14. In reports published by the Commission pursuant to authority granted in the Federal securities laws (as such term is defined in section 3(a)(47) of the Securities Exchange Act of 1934, 15 U.S.C. 78c(a)(47)), which authority shall include, but not be limited to, section 21(a) of the Securities Exchange Act of 1934, 15 U.S.C. 78u(a)).
- 15. To members of advisory committees that are created by the Commission or by Congress to render advice and recommendations to the Commission or to Congress, to be used solely in connection with their official designated functions.
- 16. To any person who is or has agreed to be subject to the Commission's Rules of Conduct, 17 CFR 200.735-1 through 200.735-18, and who assists in the investigation by the Commission of possible violations of the Federal securities laws (as such term is defined in section 3(a)(47) of the Securities Exchange Act of 1934, 15 U.S.C. 78c(a)(47)), in the preparation or conduct of enforcement actions brought by the Commission for such violations, or otherwise in connection with the Commission's enforcement or regulatory functions under the Federal securities laws.
- 17. To a Congressional office from the record of an individual in response to an inquiry from the Congressional office made at the request of that individual.
- 18. To members of Congress, the press, and the public in response to inquiries relating to particular Registrants and their activities, and other matters under the Commission's jurisdiction.
- 19. To prepare and publish information relating to violations of the Federal securities laws as provided in 15 U.S.C. 78c(a)(47)), as amended.
- 20. To respond to subpoenas in any litigation or other proceeding.
- 21. To a trustee in bankruptcy.
- 22. To any governmental agency, governmental or private collection agent, consumer reporting agency or commercial reporting agency, governmental or private employer of a debtor, or any other person, for collection,

including collection by administrative offset, Federal salary offset, tax refund offset, or administrative wage garnishment, of amounts owed as a result of Commission civil or administrative proceedings.

23. To another Federal agency or Federal entity, when the SEC determines that information from this system of records is reasonably necessary to assist the recipient agency or entity in (1) responding to a suspected or confirmed breach or (2) preventing, minimizing, or remedying the risk of harm to individuals, the recipient agency or entity (including its information systems, programs, and operations), the Federal Government, or national security, resulting from a suspected or confirmed breach.

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Small Business Owners: The SEC always welcomes comments on how it can better assist small businesses. If you would like more information, or have questions or comments about federal securities regulations as they affect small businesses, please contact the Office of Small Business Policy, in the SEC's Division of Corporation Finance, at 202-551-3460. If you would prefer to comment to someone outside of the SEC, you can contact the Small Business Regulatory Enforcement Ombudsman at http://www.sba.gov/ombudsman or toll free at 888-REG-FAIR. The Ombudsman's office receives comments from small businesses and annually evaluates federal agency enforcement activities for their responsiveness to the special needs of small business.



UNITED STATES SECURITIES AND EXCHANGE COMMISSION

100 PEARL STREET, SUITE 20-100 NEW YORK, NY 10004-2616

DIVISION OF ENFORCEMENT

February 27, 2024

VIA email contact@sigmaprime.io Sigma Prime 201 Sussex Street 2000 Sydney New South Wales, Australia

Re: C-08950

To Whom It May Concern:

The staff of the United States Securities and Exchange Commission is conducting an investigation relating to the above-referenced matter to determine if violations of the federal securities laws have occurred. In connection with this investigation, the staff requests that Sigma Prime immediately preserve, and voluntarily provide us with, the information and documents set forth in Attachment A on or before **March 12**, **2024 at 5:00 pm ET**.

Please send the materials electronically to enf-cpu@sec.gov with a copy to bec.gov, both bec.gov, and bec.gov, and bec.gov, bec.gov. If you would like to use the Commission's secure electronic transfer site, Accellion/Kiteworks, please contact me and I will send you a link. If you prefer to send the materials on DVD or other electronic media, please send them to:

ENF-CPU (U.S. Securities & Exchange Commission) 14420 Albermarle Point Pl. Suite 102 Chantilly, VA 20151-1750

Please carefully read the attachment, which contains, among other things, important instructions related to the manner of producing documents. In particular, if you prefer to send us copies of original documents, the staff requests that you scan and produce hard copy documents, as well as electronic documents, in an electronic format consistent with the SEC Data Delivery Standards attached hereto. All electronic documents responsive to the document request, including all metadata, should also be produced in their native software format. If you have any questions concerning the production of documents in an electronic format, please contact me as soon as possible and in any event before producing documents.

In your cover letter(s) accompanying the production of responsive documents, please enclose a list briefly describing each item you send. The list should state to which paragraph(s) in the attachment each item responds. Please also state in the cover letter(s) whether you believe you have met your obligations under the document request by searching carefully and thoroughly for everything called for by the request, and sending it all to us. Correspondence should reference case number, case name and requesting SEC staff member.

Please also provide a narrative description describing what was done to identify and collect documents responsive to the request. At a minimum, the narrative should describe:

- who searched for documents;
- who reviewed documents found to determine whether they were responsive;
- which custodians were searched;
- what sources were searched (e.g., computer files, CDs, DVDs, thumb drives, flash drives, online storage media, hard copy files, diaries, datebooks, planners, filing cabinets, storage facilities, home offices, work offices, voice mails, home email, webmail, work email, backup tapes or other media);
- what search terms, if any, were employed to identify responsive documents;
- what firms and/or persons, if any, assisted in analyzing the data collected;
- what third parties, if any, were contacted to obtain responsive documents (e.g., phone companies for phone records, brokerage firms for brokerage records); and
- where the original electronic and hardcopy documents are maintained and by whom.

Also attached is a Business Records Declaration. Execution of this declaration may allow the Commission to introduce documents provided by you in any subsequent judicial proceeding, without requiring the testimony of your custodian of records should the documents be required at trial.

This investigation is a non-public, fact-finding inquiry. The investigation does not mean that we have concluded that you or anyone else has violated the law. Also, the investigation does not mean that we have a negative opinion of any person, entity, or security. Enclosed is a copy of the Commission's Form 1662 entitled "Supplemental Information for Persons Requested to Supply Information Voluntarily or Directed to Supply Information Pursuant to a Commission Subpoena." Form 1662 explains how we may use the information you provide to the Commission and has other important information for you.

Thank you in advance for your anticipated cooperation. If you have any questions or would like to discuss this matter, you may contact me at (b)(6); (b)(7)(C) sec.gov.

Sincerely,
(b)(6); (b)(7)(C)
Division of Enforcement
(b)(6); (b)(7)(C)

Enclosures: Attachment A

SEC Data Delivery Standards SEC Form 1662

Business Records Certification

ATTACHMENT FOR SIGMA PRIME

C-08950

February 27, 2024

Definitions

As used in this subpoena, the words and phrases listed below shall have the following meanings:

- 1. "Relevant Period" means July 1, 2018 to the present.
- 2. "Sigma Prime" means the entity doing business under the name Sigma Prime, parents, subsidiaries, affiliates, predecessors, successors, officers, directors, employees, agents, general partners, limited partners, partnerships and aliases, code names, or trade or business names used by any of the foregoing.
- 3. The "Ethereum Foundation" means the entity or business doing business under the name Ethereum Foundation, including, but not limited to, ethereum.org, the Ethereum Support Program, and parents, subsidiaries, affiliates, predecessors, successors, officers, directors, employees, agents, general partners, limited partners, partnerships and aliases, owners, code names, or trade or business names used by any of the foregoing.
- 4. "The Merge" or "Ethereum 2.0" means the transition by the Ethereum blockchain of its consensus mechanism from proof-of-work to proof-of-stake.
- 5. "Beacon Chain" means the original proof-of-stake blockchain that was launched in 2020 that ran alongside the original proof-of-work Ethereum blockchain.
- 6. "Document" shall include, but is not limited to, any written, printed, or typed matter including, but not limited to all drafts and copies bearing notations or marks not found in the original, letters and correspondence, interoffice communications, slips, tickets, records, worksheets, financial records, accounting documents, bookkeeping documents, memoranda, reports, manuals, telephone logs, facsimiles, messages of any type, telephone messages, text messages, voice mails, tape recordings, notices, instructions, minutes, summaries, notes of meetings, file folder markings, and any other organizational indicia, purchase orders, information recorded by photographic process, including microfilm and microfiche, computer printouts, spreadsheets, and other electronically stored information, including writings, drawings, graphs, charts, photographs, sound recordings, images, and other data or data compilations that are stored in any medium from which information can be retrieved, obtained, manipulated, or translated.
- 7. "Communication" means any correspondence, contact, discussion, e-mail, instant message, or any other kind of oral or written exchange or transmission of information (in the form of facts, ideas, inquiries, or otherwise), including but not limited to those made on Social Media Services, and any response thereto between two or more Persons or entities, including, without limitation, all telephone conversations, face-to-face meetings

- or conversations, internal or external discussions, or exchanges of a Document or Documents.
- 8. "Concerning" means directly or indirectly, in whole or in part, describing, constituting, evidencing, recording, evaluating, substantiating, concerning, referring to, alluding to, in connection with, commenting on, relating to, regarding, discussing, showing, analyzing or reflecting.
- 9. "Agreement" means any actual or contemplated (i) written or oral Agreement; (ii) term or provision of such Agreement; or (iii) amendment of any nature or termination of such Agreement. A request for any Agreement among or between specified parties includes a request for all Documents Concerning (i) any actual or contemplated Agreement among or between such parties, whether or not such Agreement included any other Person; (ii) the drafting or negotiation of any such Agreement; (iii) any actual or contemplated demand, request or application for any such Agreement, and any response thereto; and (iv) any actual or contemplated objection or refusal to enter into any such Agreement, and any response thereto.
- 10. "Bank or Financial Account" means the domestic or foreign bank, brokerage, or financial accounts held, controlled, or used by you or by other people on your behalf. This includes, but is not limited to, accounts that contain currency, securities, or crypto assets.
- 11. "Person" means a natural person, firm, association, organization, partnership, business, trust, corporation, bank or any other private or public entity.
- 12. The term "you" and "your" means the Person to whom or entity to which this subpoena was issued.
- 13. To the extent necessary to bring within the scope of this this subpoena any information or Documents that might otherwise be construed to be outside its scope:
 - a. the word "or" means "and/or";
 - b. the word "and" means "and/or";
 - c. the functional words "each," "every" "any" and "all" shall each be deemed to include each of the other functional words;
 - d. the masculine gender includes the female gender and the female gender includes the masculine gender; and
 - e. the singular includes the plural and the plural includes the singular.

Instructions

1. Unless otherwise specified, the Document request calls for production of the original Documents and all copies and drafts of same. Documents responsive to this request may be in electronic or paper form. Electronic Documents such as email should be produced in accordance with the attached document entitled SEC Data Delivery Standards. All electronic Documents responsive to the Document request, including all metadata, should

- 2. For Documents in paper format, you may send the originals, or, if you prefer, you may send copies of the originals. The Commission cannot reimburse you for the copying costs. If you are sending copies, the staff requests that you scan (rather than photocopy) hard copy Documents and produce them in an electronic format consistent with the SEC Data Delivery Standards. Alternatively, you may send us photocopies of the Documents in paper format. If you choose to send copies, you <u>must</u> secure and retain the originals and store them in a safe place. The staff may later request or require that you produce the originals.
- 3. Whether you scan or photocopy Documents, the copies must be identical to the originals, including even faint marks or print. Also, please note that if copies of a Document differ in any way, they are considered separate Documents and you must send each one. For example, if you have two copies of the same letter, but only one of them has handwritten notes on it, you must send both the clean copy and the one with notes.
- 4. In producing a photocopy of an original Document that contains post-it(s), notation flag(s), or other removable markings or attachments which may conceal all or a portion of the markings contained in the original Document, photocopies of the original Document both with and without the relevant post-it(s), notation flag(s), or removable markings or attachments should be produced.
- 5. Documents should be produced as they are kept in the ordinary course of business or be organized and labeled to correspond with the categories in this request. In that regard, Documents should be produced in a unitized manner, *i.e.*, delineated with staples or paper clips to identify the Document boundaries.
- 6. Documents should be labeled with sequential numbering (bates-stamped).
- 7. The scope of any given request should not be limited or narrowed based on the fact that it calls for Documents that are responsive to another request.
- 8. You are not required to produce exact duplicates of any Documents that have been previously produced to the Securities and Exchange Commission staff in connection with this matter. If you are not producing Documents based upon a prior production, please identify the responsive Documents that were previously produced.
- 9. This request covers all Documents in or subject to your possession, custody or control, including all Documents that are not in your immediate possession but that you have the effective ability to obtain, that are responsive, in whole or in part, to any of the individual requests set forth below. If, for any reason—including a claim of attorney-client privilege—you do not produce something called for by the request, you should submit a list of what you are not producing. The list should be produced as an Excel file and describe each item separately, noting:

- its author(s); a.
- its date; b.
- its subject matter; c.
- d. the name of the Person who has the item now, or the last Person known to have it:
- the names of everyone who ever had the item or a copy of it, and the e. names of everyone who was told the item's contents;
- the basis upon which you are not producing the responsive Document; f.
- the specific request in the request to which the Document relates; g.
- the attorney(s) and the client(s) involved; and h.
- in the case of the work product doctrine, the litigation for which the i. Document was prepared in anticipation.
- If Documents responsive to this request no longer exist because they have been lost, 10. discarded, or otherwise destroyed, you should identify such Documents and give the date on which they were lost, discarded or destroyed.

Documents to be Produced

- 1. All Agreements between Sigma Prime and the Ethereum Foundation;
- 2. All Documents and Communications Concerning any grant or other source of funding received from the Ethereum Foundation;
- 3. All Documents and Communications Concerning any work conducted by Sigma Prime pursuant to any grant or other source of funding received from the Ethereum Foundation;
- 4. Documents sufficient to identify Sigma Prime crypto asset wallet addresses or Bank or Financial Accounts, located within or outside the U.S., that received any grant or other source of funding from the Ethereum Foundation, as well as the amount of crypto assets or fiat received;
- 5. Documents sufficient to identify all meetings with the Ethereum Foundation, including any Documents related to the meetings identified;
- 6. All Communications with the Ethereum Foundation, including, but not limited to, Communications with board members, consultants, officers, directors, employees, developers, coders, and others performing work on behalf of these entities, related to The Merge or the Beacon Chain.

DECLARATION OF [Insert Name] CERTIFYING RECORDS OF REGULARLY CONDUCTED BUSINESS ACTIVITY

I, the undersigned, [insert name], pursuant to 28 U.S.C. § 1746, declare that:

- 1. I am employed by Sigma Prime [insert position] and by reason of my position am authorized and qualified to make this declaration. [if possible supply additional information as to how person is qualified to make declaration, e.g., I am custodian of records, I am familiar with the company's recordkeeping practices or systems, etc.]
- 2. I further certify that the documents [attached hereto or submitted herewith] and stamped [insert bates range] are true copies of records that were:
 - (a) made at or near the time of the occurrence of the matters set forth therein, by, or from information transmitted by, a person with knowledge of those matters;
 - (b) kept in the course of regularly conducted business activity; and
 - (c) made by the regularly conducted business activity as a regular practice.

I declare under penalty of perjury that the foregoing is true and correct. Executed on [date].

[Name]	



U.S. Securities and Exchange Commission

Data Delivery Standards

This document describes the technical requirements for paper and electronic document productions to the U.S. Securities and Exchange Commission (SEC). **Any questions or proposed file formats other than those described below must be discussed with the legal and technical staff of the SEC Division of Enforcement prior to submission. **

General Instructions	
Delivery Formats	2
I. Imaged Productions	7
1. Images Troductions	.:
2. Image Cross-Reference File	
3. Data File	
4. Text	
5. Linked Native Files	
II. Native File Productions without Load Files	
III. Adobe PDF File Productions	
IV. Audio Files	
V. Video Files	, 4
VI. Electronic Trade and Bank Records	
VII. Electronic Phone Records	. 4
VIII. Audit Workpapers	5
IX. Mobile Device Data	5

General Instructions

The current mailing address for all physical productions sent to the SEC is:

ENF-CPU (U.S. Securities & Exchange Commission), 14420 Albemarle Point Place, Suite 102, Chantilly, VA 20151-1750

Electronic files must be produced in their native format, i.e. the format in which they are ordinarily used and maintained during the normal course of business. For example, an MS Excel file must be produced as an MS Excel file rather than an image of a spreadsheet. (Note: An Adobe PDF file is not considered a native file unless the document was initially created as a PDF.)

In the event produced files require the use of proprietary software not commonly found in the workplace, the SEC will explore other format options with the producing party.

The proposed use of file de-duplication methodologies or computer-assisted review or technology-assisted review (TAR) during the processing of documents must be discussed with and approved by the legal and technical staff of the Division of Enforcement (ENF). If your production will be de-duplicated it is vital that you 1) preserve any unique metadata associated with the duplicate files, for example, custodian name and file location and, 2) make that unique metadata part of your production to the SEC.

General requirements for ALL document productions are:

- 1. A cover letter must be included with each production and should include the following information:
 - a. Case number, ease name and requesting SEC staff member name
 - b. A list of each piece of media included in the production with its unique production volume number
 - c. A list of custodians, identifying the Bates range for each custodian
 - d. A list of redacted documents and the redaction reason
 - c. The time zone in which the emails were standardized during conversion
 - f. Whether the production contains native files produced from Mac operating system environments
- Data can be produced on CD, DVD, thumb drive, etc., using the media requiring the least number of deliverables and labeled with the following:
 - a. Case number
 - b. Production date
 - c. Producing party
 - d. Bates range (if applicable)
- All submissions must be organized by custodian unless otherwise instructed.
- 4. All document family groups, i.e. email attachments, embedded files, etc., should be produced together and children files should follow parent files sequentially in the Bates numbering.
- 5. All load-ready collections should include only one data load file and one image pointer file.
- 6. All load-ready text must be produced as separate document-level text files.
- 7. All load-ready collections should account for custodians in the custodian field.
- All load-ready collections must provide the extracted contents of any container files to ensure all relevant files are produced as separate records.
- 9. Audio files should be separated from data files if both are included in the production.
- 10. Only alphanumeric characters and the underscore character are permitted in file names and folder names. Special characters are not permitted.
- 11. All electronic productions submitted on media must be produced using industry standard self-extracting encryption software.
- 12. The SEC uses 7zip to access compressed files. Note that the SEC **cannot** accept files that use AES-256 Jpeg or pkAES-256-Cert Deflate compression methods, even if the files are created with 7zip. If you have any questions or need additional information, please reach out to the requesting SEC staff member.
- 13. Electronic productions of 30 GB or less are strongly encouraged to be submitted via Secure File Transfer. All Secure File Transfers should be sent to the SEC Centralized Production Unit (ENF-CPU@sec.gov) with a CC to the requesting SEC staff member. If you do not have your own Secure File Transfer application, you may reach out to the requesting SEC staff member for a link to the SEC system in order to upload your production. If using the SEC Secure File Transfer system, you will NOT be able to CC individuals outside the SEC on your upload transmission. Note that the SEC cannot accept productions made using file sharing sites such as Google Drive or Microsoft Office 365.
- 14. Productions containing BSA or SAR material must be encrypted. Secure File Transfer applications may be used to produce BSA or SAR material. BSA or SAR material should be segregated and appropriately marked as BSA or SAR, or should be produced separately from other case related records.
- 15. Passwords for electronic documents, files, compressed archives and encrypted media must be provided separately either via email or in a cover letter apart from the media.
- 16. All electronic productions should be produced free of computer viruses.
- 17. Before producing forensically collected images, parties should reach out to the requesting SEC staff member in order to discuss appropriate handling.
- 18. Before producing unique data sets (large sets of relational data, website reconstruction, chat room data, etc.), parties should reach out to the requesting SEC staff member in order to discuss an appropriate production format.
- Additional technical descriptions can be found in the addendum to this document.

Please note that productions sent to the SEC via United States Postal Service are subject to Mail Irradiation, and as a result electronic productions may be damaged.

Delivery Formats

Imaged Productions

The SEC prefers that all scanned paper and electronic file collections be produced in a structured format including industry standard load files, Bates numbered image files, native files and searchable document-level text files. Bates numbers should not contain spaces. Hyphens (-) and underscores (-) are acceptable.

1. Images

- Black and white images must be 300 DPI Group IV single-page TIFF files
- b. Color images must be produced in JPEG format
- File names cannot contain embedded spaces or special characters (including the comma)
- d. Folder names cannot contain embedded spaces or special characters (including the comma)
- e. All image files must have a unique file name, i.e. Bates number
- f. Images must be endorsed with sequential Bates numbers in the lower right corner of each image
- The number of image files per folder should not exceed 2,000 files g.
- h. Excel spreadsheets should have a placeholder image named by the Bates number of the file
- AUTOCAD/photograph files should be produced as a single page JPEG file

2. Image Cross-Reference File

The image cross-reference file (LOG or .OPT) links the images to the database records. It should be a comma-delimited file consisting of seven fields per line with a line in the cross-reference file for every image in the database with the following format:

ImageID, VolumeLabel, ImageFilePath, DocumentBreak, FolderBreak, BoxBreak, PageCount

3. Data File

The data file (.DAT) contains all of the fielded information that will be loaded into the database.

- The first line of the .DAT file must be a header row identifying the field names
- The .DAT file must use the following *Concordance*® default delimiters:

Comma ¶ ASCII character (020)

Quote b ASCII character (254)

- c. If the .DAT file is produced in Unicode format it must contain the byte order marker
- d. Date fields should be provided in the format: mm/dd/yyyy
- Date and time fields must be two separate fields
- The time zone must be included in all time fields f.
- If the production includes imaged emails and attachments, the attachment fields must be included to preserve the parent/child relationship between an email and its attachments
- An OCRPATH field must be included to provide the file path and name of the extracted text file on the produced storage media. The text file must be named after the FIRSTBATES. Do not include the text in the .DAT file.
- For productions with native files, a LINK field must be included to provide the file path and name of the native file on the produced storage media. The native file must be named after the FIRSTBATES.
- BEGATTACH and ENDATTACH fields must be two separate fields
- A complete list of metadata fields is available in Addendum A to this document

4. Text

Text must be produced as separate document-level text files, not as fields within the .DAT file. The text files must be named per the FIRSTBATES/Image Key and the full path to the text file (OCRPATII) should be included in the .DAT file. Text files may be in either ANSI or Unicode format, however, ALL text files must be in the same format within the same production. Note that productions containing text with foreign characters must produce text files in Unicode format to preserve the foreign characters. Text files must be in a separate folder, and the number of text files per folder should not exceed 2,000 files. There should be no special characters (including commas) in the folder names. For redacted documents, provide the full text for the redacted version.

Linked Native Files

Copies of original email and native file documents/attachments must be included for all electronic productions.

- a. Native file documents must be named per the FIRSTBATES number
- b. The full path of the native file must be provided in the .DAT file for the LINK field
- The number of native files per folder should not exceed 2,000 files

II. Native File Production without Load Files

With prior approval, native files may be produced without load files. Native file productions should not be Bates numbered. Native files must be produced as they are maintained in the normal course of business and organized by custodian-named file folders. Native email files (.PST or .MBOX) must be separated by custodian.

III. Adobe PDF File Production

With prior approval, Adobe PDF files may be produced in native file format.

- 1. All PDFs must be unitized at the document level, i.e. each PDF must represent a discrete document.
- 2. PDF files should be produced in separate folders named by the custodian. The folders should not contain any special characters (including commas).
- 3. All PDF files must contain embedded text that includes all discernible words within the document, not selected text or image only. This requires all layers of the PDF to be flattened first.
- 4. If PDF files are Bates endorsed, the PDF files must be named by the Bates range.

IV. Audio Files

Audio files from telephone recording systems must be produced in a format that is playable using Microsoft Windows Media PlayerTM. Additionally, the call information (metadata) related to each audio recording MUST be provided. The metadata file must be produced in a delimited text format. Field names must be included in the first row of the text file. The metadata must include, at a minimum, the following fields:

1) Caller Name: Caller's name or account/identification number

2) Originating Number: Caller's phone number3) Called Party Name: Called party's name

4) Terminating Number: Called party's phone number

5) Date: Date of call
6) Time: Time of call

7) Filename: Filename of audio file

V. Video Files

Video files must be produced in a format that is playable using Microsoft Windows Media PlayerTM.

VI. Electronic Trade and Bank Records

When producing electronic trade records, bank records, or financial statements, provide the files in one of the following formats:

- 1. MS Excel spreadsheet with header information detailing the field structure. If any special codes exist in the dataset, a separate document must be provided that details all such codes. If details of the field structure do not fit in the header, a separate document must be provided that includes such details.
- 2. Delimited text file with header information detailing the field structure. The preferred delimiter is a vertical bar "|". If any special codes exist in the dataset, a separate document must be provided that details all such codes. If details of the field structure do not fit in the header, a separate document must be provided that includes such details.

VII. Electronic Phone Records

When producing an MS Excel spreadsheet for electronic phone records, provide the files in the following format:

- 1. MS Excel spreadsheet with header information detailing the field structure. If any special codes exist in the dataset, a separate document must be provided that details all such codes. If details of the field structure do not fit in the header, a separate document must be provided that includes such details. Data must be formatted in its native format (i.e. dates in a date format, numbers in an appropriate numerical format, and numbers with leading zeroes as text).
 - a. The metadata that must be included is outlined in **Addendum B** of this document. Each field of data must be loaded into a separate column. For example, Date and Start_Time must be produced in separate columns and not combined into a single column containing both pieces of information. Any fields of data that are provided in addition to those listed in **Addendum B** must also be loaded into separate columns.

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Data Delivery Standards

VIII. Audit Workpapers

The SEC prefers for workpapers to be produced in two formats: (1) With Bates numbers in accordance with the SEC Data Delivery Standards; and (2) in native format via laptop computer, web-based viewing platform, or otherwise, allowing for viewing in the same format and organization as the firm's audit team. Prior to production of workpapers via laptop computer or web-based viewing platform, audit firms should contact the requesting SEC staff member for additional information and written agreements addressing use of software, access, and viewing protocols.

IX. Mobile Device Data

Before producing any mobile device data (including but not limited to text messages and application data) parties should reach out to the requesting SEC staff member in order to discuss the appropriate production format. Productions containing chat data from applications must be identified at the time of production and the following information must be provided to the requesting SEC staff member and the SEC Centralized Production Unit: chat application, chat data format, and how the length of a chat is determined (i.e. set duration of time, number of minutes without messages, etc.)

ADDENDUM A

The metadata of electronic document collections should be extracted and provided in a .DAT file using the field definition and formatting described below:

Field Name	Sample Data	Description	
FIRSTBATES	EDC0000001	First Bates number of native file document/email	
LASTBATES	EDC0000001	Last Bates number of native file document/email	
		**The LASTBATES field should be populated	
		for single page documents/emails.	
ATTACHRANGE	EDC0000001 - EDC0000015	Bates number of the first page of the parent	
		document to the Bates number of the last page of the	
		last attachment "child" document	
BEGATTACH	EDC0000001	First Bates number of attachment range	
ENDATTACH	EDC0000015	Last Bates number of attachment range	
PARENT_BATES	EDC0000001	First Bates number of parent document/Email **This PARENT_BATES field should be populated in each record representing an attachment "child" document	
CHILD BATES	EDC0000002; EDC0000014	First Bates number of "child" attachment(s); can be	
_	·	more than one Bates number listed depending on the	
		number of attachments	
		**The CHILD_BATES field should be populated in	
		each record representing a "parent" document	
CUSTODIAN	Smith, John	Email: Mailbox where the email resided	
		Native: Name of the individual or department from whose files the document originated	
FROM	John Smith	Email: Sender	
		Native: Author(s) of document	
		**semi-colon should be used to separate multiple entries	
TO	Coffman, Janice; LeeW	Recipient(s)	
	[mailto:LeeW@MSN.com]	**semi-colon should be used to separate multiple entries	
CC	Frank Thompson [mailto:	Carbon copy recipient(s)	
	frank_Thompson@cdt.com]	**semi-colon should be used to separate multiple	
		entries	
BCC	John Cain	Blind carbon copy recipient(s)	
		**semi-colon should be used to separate multiple	
		entries	
SUBJECT	Board Meeting Minutes	Email: Subject line of the email	
		Native: Title of document (if available)	
FILE_NAME	BoardMeetingMinutes.docx	Native: Name of the original native file, including	
		extension	
DATE_SENT	10/12/2010	Email: Date the email was sent	
		Native: (empty)	
TIME_SENT/TIME	07:05 PM GMT	Email: Time the email was sent/ Time zone in which	
_ZONE		the emails were standardized during conversion.	
		Native: (empty)	
		**This data must be a separate field and cannot be	
TIME ZONE	CMT	combined with the DATE_SENT field	
TIME_ZONE	GMT	The time zone in which the emails were standardized	
		during conversion. Email: Time zone	
		Native: (empty)	
		rvacivo, (empty)	

LINK	D:\001\EDC0000001.msg	Hyperlink to the email or native file document **The linked file must be named per the FIRSTBATES number	
MIME_TYPE	application/msword	The content type of an email or native file document as identified/extracted from the header	
FILE_EXTEN	MSG	The file type extension representing the email or native file document; will vary depending on the format	
AUTHOR	John Smith	Email: (empty) Native: Author of the document	
LAST_AUTHOR	Jane Doe	Email: (empty) Native: Last Author of the document	
DATE_CREATED	10/10/2010	Email: (empty) Native: Date the document was created	
TIME_CREATED/T IME_ZONE	10:25 AM GMT	Email: (empty) Native: Time the document was created including time zone **This data must be a separate field and cannot be combined with the DATE_CREATED field	
DATE_MOD	10/12/2010	Email: (empty) Native: Date the document was last modified	
TIME_MOD/TIME_ ZONE	07:00 PM GMT	Email: (empty) Native: Time the document was last modified including the time zone **This data must be a separate field and cannot be combined with the DATE_MOD field	
DATE_ACCESSD	10/12/2010	Email: (empty) Native: Date the document was last accessed	
TIME_ACCESSD/T IME_ZONE	07:00 PM GMT	Email: (empty) Native: Time the document was last accessed including the time zone **This data must be a separate field and cannot be combined with the DATE_ACCESSD field	
PRINTED_DATE	10/12/2010	Email: (empty) Native: Date the document was last printed	
FILE_SIZE	5,952	Size of native file document/email in KB	
PGCOUNT	1	Number of pages in native file document/email	
PATH	J:\Shared\SmithJ\October Agenda.doc	Email: (empty) Native: Path where native file document was stored including original file name.	
INTFILEPATH	Personal Folders\Deleted Items\Board Meeting Minutes.msg	Email: original location of email including original file name. Native: (empty)	
INTMSGID	<000805c2c71bS75977050Scb 8306d1@MSN>	Email: Unique Message ID Native: (empty)	

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HEADER SHA254	Return-Path: <example_from@dc.edu> X-SpamCatcher-Score:1[X] Received:from[136.167.40.119] (HELO dc.edu) by fe3.dc.edu (CommuniGate Pro SMTP4.1.8) with ESMTP-TLS id 61258719 for example_to@mail.dc.edu; Mon, 23 Aug 2004 11:40:10 - 0400 Message-ID: <4129F3CA.2020509@dc.edu> Date: Mon, 23 Aug 2005 11:40:36 -400 From: Taylor Evans <example_from@dc.edu> User-Agent:Mozilla/5.0 (Windows;U; Windows NT 5.1: en-US;rv:1.0.1) Gecko/20020823 Netscape/7.0 X-Accept-Language:en-us,en MIME-Version:1.0 To: Jon Smith <example_to@mail.dc.edu> Subject:Business Development Meeting Content-Type: text/plain;charset=us-ascii; format=flowed Content-Transfer-Encoding:7bit</example_to@mail.dc.edu></example_from@dc.edu></example_from@dc.edu>	Email: The email header information Native: (empty) SHA-256 hash value of the document.
SHA256	AD6128C5CA40164AF71A1E FC800E12D2F195CE07BB5F8 C813B0888A2DDE6A06F	SHA-230 hash value of the document.
OCRPATH	TEXT/001/EDC0000001.txt	Path to extracted text of the native file

Sample Image Cross-Reference File:

IMG000001,,E:\001\IMG0000001.TIF,Y,,,
IMG0000002,,E:\001\IMG0000002.TIF,,,,
IMG0000003,,E:\001\IMG0000003.TIF,,,,
IMG0000004,,E:\001\IMG0000005.TIF,Y,,,
IMG0000005,,E:\001\IMG0000005.TIF,Y,,,
IMG0000006,,E:\001\IMG0000006.TIF,,,,,

ADDENDUM B

For Electronic Phone Records, include the following fields in separate columns:

For Calls:

- 1) Account Number
- 2) Connection Date Date the call was received or made
- 3) Connection Time Time call was received or made
- 4) Seizure Time Time it took for the call to be placed in seconds
- 5) Originating Number Phone that placed the call
- 6) Terminating Number Phone that received the call
- 7) Elapsed Time The length of time the call lasted, preferably in seconds
- 8) End Time The time the call ended
- 9) Number Dialed Actual number dialed
- 10) IMEI Originating Unique id to phone used to make call
- 11) IMEI Terminating-Unique id to phone used to receive call
- 12) IMSI Originating Unique id to phone used to make call
- 13) IMSI Terminating- Unique id to phone used to receive call
- 14) Call Codes Identify call direction or other routing information
- 15) Time Zone Time Zone in which the call was received or placed, if applicable

For Text messages:

- 1) Account Number
- 2) Connection Date Date the text was received or made
- 3) Connection Time Time text was received or made
- 4) Originating Number Who placed the text
- 5) Terminating Number Who received the text
- 6) IMEI Originating Unique id to phone used to make text
- 7) IMEI Terminating—Unique id to phone used to receive text
- 8) IMSI Originating Unique id to phone used to make text
- 9) IMSI Terminating- Unique id to phone used to receive text
- 10) Text Code Identify text direction, or other text routing information
- 11) Text Type Code Type of text message (sent SMS, MMS, or other)
- 12) Time Zone Time Zone in which the call was received or placed, if applicable

For Mobile Data Usage:

- 1) Account Number
- Connection Date Date the data was received or made
- 3) Connection Time Time data was received or made
- 4) Originating number Number that used data
- 5) IMEI Originating Unique id of phone that used data
- 6) IMSI Originating Unique id of phone that used data
- 7) Data or Data codes Identify data direction, or other data routing information
- 8) Time Zone Time Zone in which the call was received or placed, if applicable

SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549

Supplemental Information for Persons Requested to Supply Information Voluntarily or Directed to Supply Information Pursuant to a Commission Subpoena

A. False Statements and Documents

Section 1001 of Title 18 of the United States Code provides that fines and terms of imprisonment may be imposed upon:

[W]hoever, in any matter within the jurisdiction of the executive, legislative, or judicial branch of the Government of the United States, knowingly and willfully--

- (1) falsifies, conceals, or covers up by any trick, scheme, or device a material fact;
- (2) makes any materially false, fictitious, or fraudulent statement or representation; or
- (3) makes or uses any false writing or document knowing the same to contain any materially false, fictitious, or fraudulent statement or entry.

Section 1519 of Title 18 of the United States Code provides that fines and terms of imprisonment may be imposed upon:

Whoever knowingly alters, destroys, mutilates, conceals, covers up, falsifies, or makes a false entry in any record, document, or tangible object with the intent to impede, obstruct, or influence the investigation or proper administration of any matter within the jurisdiction of any department or agency of the United States . . ., or in relation to or contemplation of any such matter.

B. Testimony

If your testimony is taken, you should be aware of the following:

- 1. Record. Your testimony will be transcribed by a reporter. If you desire to go off the record, please indicate this to the Commission employee taking your testimony, who will determine whether to grant your request. The reporter will not go off the record at your, or your counsel's, direction.
- 2. Counsel. You have the right to be accompanied, represented and advised by counsel of your choice. Your counsel may advise you before, during and after your testimony; question you briefly at the conclusion of your testimony to clarify any of the answers you give during testimony; and make summary notes during your testimony solely for your use. If you are accompanied by counsel, you may consult privately.

If you are not accompanied by counsel, please advise the Commission employee taking your testimony if, during the testimony, you desire to be accompanied, represented and advised by counsel. Your testimony will be adjourned once to afford you the opportunity to arrange to be so accompanied, represented or advised.

You may be represented by counsel who also represents other persons involved in the Commission's investigation. This multiple representation, however, presents a potential conflict of interest if one client's interests are or may be adverse to another's. If you are represented by counsel who also represents other persons involved in the investigation, the Commission will assume that you and counsel have discussed and resolved all issues concerning possible conflicts of interest. The choice of counsel, and the responsibility for that choice, is yours.

3. Transcript Availability. Rule 6 of the Commission's Rules Relating to Investigations, 17 CFR 203.6, states:

A person who has submitted documentary evidence or testimony in a formal investigative proceeding shall be entitled, upon written request, to procure a copy of his documentary evidence or a transcript of his testimony on payment of the appropriate fees: *Provided, however*, That in a nonpublic formal investigative proceeding the Commission may for good cause deny such request. In any event, any witness, upon proper identification, shall have the right to inspect the official transcript of the witness' own testimony.

If you wish to purchase a copy of the transcript of your testimony, the reporter will provide you with a copy of the appropriate form. Persons requested to supply information voluntarily will be allowed the rights provided by this rule.

4. *Perjury.* Section 1621 of Title 18 of the United States Code provides that fines and terms of imprisonment may be imposed upon:

Whoever-

(1) having taken an oath before a competent tribunal, officer, or person, in any case in which a law of the United States authorizes an oath to be administered, that he will testify, declare,

depose, or certify truly, or that any written testimony, declaration, deposition, or certificate by him subscribed, is true, willfully and contrary to such oath states or subscribes any material matter which he does not believe to be true; or

- (2) in any declaration, certificate, verification, or statement under penalty of perjury as permitted under section 1746 of title 28, United States Code, willfully subscribes as true any material matter which he does not believe to be true.
- 5. Fifth Amendment and Voluntary Testimony. Information you give may be used against you in any federal, state, local or foreign administrative, civil or criminal proceeding brought by the Commission or any other agency.

You may refuse, in accordance with the rights guaranteed to you by the Fifth Amendment to the Constitution of the United States, to give any information that may tend to incriminate you.

If your testimony is not pursuant to subpoena, your appearance to testify is voluntary, you need not answer any question, and you may leave whenever you wish. Your cooperation is, however, appreciated.

6. Formal Order Availability. If the Commission has issued a formal order of investigation, it will be shown to you during your testimony, at your request. If you desire a copy of the formal order, please make your request in writing.

C. Submissions and Settlements

Rule 5(c) of the Commission's Rules on Informal and Other Procedures, 17 CFR 202.5(c), states:

Persons who become involved in . . . investigations may, on their own initiative, submit a written statement to the Commission setting forth their interests and position in regard to the subject matter of the investigation. Upon request, the staff, in its discretion, may advise such persons of the general nature of the investigation, including the indicated violations as they pertain to them, and the amount of time that may be available for preparing and submitting a statement prior to the presentation of a staff recommendation to the Commission for the commencement of an administrative or injunction proceeding. Submissions by interested persons should be forwarded to the appropriate Division Director or Regional Director with a copy to the staff members conducting the investigation and should be clearly referenced to the specific investigation to which they relate. In the event a recommendation for the commencement of an enforcement proceeding is presented by the staff, any submissions by interested persons will be forwarded to the Commission in conjunction with the staff memorandum.

The staff of the Commission routinely seeks to introduce submissions made pursuant to Rule 5(c) as evidence in Commission enforcement proceedings, when the staff deems appropriate.

Rule 5(f) of the Commission's Rules on Informal and Other Procedures, 17 CFR 202.5(f), states:

In the course of the Commission's investigations, civil lawsuits, and administrative proceedings, the staff, with appropriate authorization, may discuss with persons involved the disposition of such matters by consent, by settlement, or in some other manner. It is the policy of the Commission, however, that the disposition of any such matter may not, expressly or impliedly, extend to any criminal charges that have been, or may be, brought against any such person or any recommendation with respect thereto. Accordingly, any person involved in an enforcement matter before the Commission who consents, or agrees to consent, to any judgment or order does so solely for the purpose of resolving the claims against him in that investigative, civil, or administrative matter and not for the purpose of resolving any criminal charges that have been, or might be, brought against him. This policy reflects the fact that neither the Commission nor its staff has the authority or responsibility for instituting, conducting, settling, or otherwise disposing of criminal proceedings. That authority and responsibility are vested in the Attorney General and representatives of the Department of Justice.

D. Freedom of Information Act

The Freedom of Information Act, 5 U.S.C. 552 (the "FOIA"), generally provides for disclosure of information to the public. Rule 83 of the Commission's Rules on Information and Requests, 17 CFR 200.83, provides a procedure by which a person can make a written request that information submitted to the Commission not be disclosed under the FOIA. That rule states that no determination as to the validity of such a request will be made until a request for disclosure of the information under the FOIA is received. Accordingly, no response to a request that information not be disclosed under the FOIA is necessary or will be given until a request for disclosure under the FOIA is received. If you desire an acknowledgment of receipt of your written request that information not be disclosed under the FOIA, please provide a duplicate request, together with a stamped, self-addressed envelope.

E. Authority for Solicitation of Information

Persons Directed to Supply Information Pursuant to Subpoena. The authority for requiring production of information is set forth in the subpoena. Disclosure of the information to the Commission is mandatory, subject to the valid assertion of any legal right or privilege you might have.

Persons Requested to Supply Information Voluntarily. One or more of the following provisions authorizes the Commission to solicit the information requested: Sections 19 and/or 20 of the Securities Act of 1933; Section 21 of the Securities Exchange Act of 1934; Section 321 of the Trust Indenture Act of 1939; Section 42 of the Investment Company Act of 1940; Section 209 of the Investment Advisers Act of 1940; and 17 CFR 202.5. Disclosure of the requested information to the Commission is voluntary on your part.

F. Effect of Not Supplying Information

Persons Directed to Supply Information Pursuant to Subpoena. If you fail to comply with the subpoena, the Commission may seek a court order requiring you to do so. If such an order is obtained and you thereafter fail to supply the information, you may be subject to civil and/or criminal sanctions for contempt of court. In addition, Section 21(c) of the Securities Exchange Act of 1934, Section 42(c) of the Investment Company Act of 1940, and Section 209(c) of the Investment Advisers Act of 1940 provide that fines and terms of imprisonment may be imposed upon any person who shall, without just cause, fail or refuse to attend and testify or to answer any lawful inquiry, or to produce books, papers, correspondence, memoranda, and other records in compliance with the subpoena.

Persons Requested to Supply Information Voluntarily. There are no direct sanctions and thus no direct effects for failing to provide all or any part of the requested information.

G. Principal Uses of Information

The Commission's principal purpose in soliciting the information is to gather facts in order to determine whether any person has violated, is violating, or is about to violate any provision of the federal securities laws or rules for which the Commission has enforcement authority, such as rules of securities exchanges and the rules of the Municipal Securities Rulemaking Board. Facts developed may, however, constitute violations of other laws or rules. Information provided may be used in Commission and other agency enforcement proceedings. Unless the Commission or its staff explicitly agrees to the contrary in writing, you should not assume that the Commission or its staff acquiesces in, accedes to, or concurs or agrees with, any position, condition, request, reservation of right, understanding, or any other statement that purports, or may be deemed, to be or to reflect a limitation upon the Commission's receipt, use, disposition, transfer, or retention, in accordance with applicable law, of information provided.

H. Routine Uses of Information

The Commission often makes its files available to other governmental agencies, particularly United States Attorneys and state prosecutors. There is a likelihood that information supplied by you will be made available to such agencies where appropriate. Whether or not the Commission makes its files available to other governmental agencies is, in general, a confidential matter between the Commission and such other governmental agencies.

Set forth below is a list of the routine uses which may be made of the information furnished.

- 1. To appropriate agencies, entities, and persons when (1) the SEC suspects or has confirmed that there has been a breach of the system of records, (2) the SEC has determined that as a result of the suspected or confirmed breach there is a risk of harm to individuals, the SEC (including its information systems, programs, and operations), the Federal Government, or national security; and (3) the disclosure made to such agencies, entities, and persons is reasonably necessary to assist in connection with the SEC's efforts to respond to the suspected or confirmed breach or to prevent, minimize, or remedy such harm.
- 2. To other Federal, state, local, or foreign law enforcement agencies; securities self-regulatory organizations; and foreign financial regulatory authorities to assist in or coordinate regulatory or law enforcement activities with the SEC.
- 3. To national securities exchanges and national securities associations that are registered with the SEC, the Municipal Securities Rulemaking Board; the Securities Investor Protection Corporation; the Public Company Accounting Oversight Board; the Federal banking authorities, including, but not limited to, the Board of Governors of the Federal Reserve System, the Comptroller of the Currency, and the Federal Deposit Insurance Corporation; state securities regulatory agencies or organizations; or regulatory authorities of a foreign government in connection with their regulatory or enforcement responsibilities.
- 4. By SEC personnel for purposes of investigating possible violations of, or to conduct investigations authorized by, the Federal securities laws.
- 5. In any proceeding where the Federal securities laws are in issue or in which the Commission, or past or present members of its staff, is a party or otherwise involved in an official capacity.
- 6. In connection with proceedings by the Commission pursuant to Rule 102(e) of its Rules of Practice, 17 CFR 201.102(e).

- 7. To a bar association, state accountancy board, or other Federal, state, local, or foreign licensing or oversight authority; or professional association or self-regulatory authority to the extent that it performs similar functions (including the Public Company Accounting Oversight Board) for investigations or possible disciplinary action.
- 8. To a Federal, state, local, tribal, foreign, or international agency, if necessary to obtain information relevant to the SEC's decision concerning the hiring or retention of an employee; the issuance of a security clearance; the letting of a contract; or the issuance of a license, grant, or other benefit.
- 9. To a Federal, state, local, tribal, foreign, or international agency in response to its request for information concerning the hiring or retention of an employee; the issuance of a security clearance; the reporting of an investigation of an employee; the letting of a contract; or the issuance of a license, grant, or other benefit by the requesting agency, to the extent that the information is relevant and necessary to the requesting agency's decision on the matter.
- 10. To produce summary descriptive statistics and analytical studies, as a data source for management information, in support of the function for which the records are collected and maintained or for related personnel management functions or manpower studies; may also be used to respond to general requests for statistical information (without personal identification of individuals) under the Freedom of Information Act.
- 11. To any trustee, receiver, master, special counsel, or other individual or entity that is appointed by a court of competent jurisdiction, or as a result of an agreement between the parties in connection with litigation or administrative proceedings involving allegations of violations of the Federal securities laws (as defined in section 3(a)(47) of the Securities Exchange Act of 1934, 15 U.S.C. 78c(a)(47)) or pursuant to the Commission's Rules of Practice, 17 CFR 201.100 through 900 or the Commission's Rules of Fair Fund and Disgorgement Plans, 17 CFR 201.1100 through 1106, or otherwise, where such trustee, receiver, master, special counsel, or other individual or entity is specifically designated to perform particular functions with respect to, or as a result of, the pending action or proceeding or in connection with the administration and enforcement by the Commission of the Federal securities laws or the Commission's Rules of Practice or the Rules of Fair Fund and Disgorgement Plans.
- 12. To any persons during the course of any inquiry, examination, or investigation conducted by the SEC's staff, or in connection with civil litigation, if the staff has reason to believe that the person to whom the record is disclosed may have further information about the matters related therein, and those matters appeared to be relevant at the time to the subject matter of the inquiry.
- 13. To interns, grantees, experts, contractors, and others who have been engaged by the Commission to assist in the performance of a service related to this system of records and who need access to the records for the purpose of assisting the Commission in the efficient administration of its programs, including by performing clerical, stenographic, or data analysis functions, or by reproduction of records by electronic or other means. Recipients of these records shall be required to comply with the requirements of the Privacy Act of 1974, as amended, 5 U.S.C.
- 14. In reports published by the Commission pursuant to authority granted in the Federal securities laws (as such term is defined in section 3(a)(47) of the Securities Exchange Act of 1934, 15 U.S.C. 78c(a)(47)), which authority shall include, but not be limited to, section 21(a) of the Securities Exchange Act of 1934, 15 U.S.C. 78u(a)).
- 15. To members of advisory committees that are created by the Commission or by Congress to render advice and recommendations to the Commission or to Congress, to be used solely in connection with their official designated functions.
- 16. To any person who is or has agreed to be subject to the Commission's Rules of Conduct, 17 CFR 200.735-1 through 200.735-18, and who assists in the investigation by the Commission of possible violations of the Federal securities laws (as such term is defined in section 3(a)(47) of the Securities Exchange Act of 1934, 15 U.S.C. 78c(a)(47)), in the preparation or conduct of enforcement actions brought by the Commission for such violations, or otherwise in connection with the Commission's enforcement or regulatory functions under the Federal securities laws.
- 17. To a Congressional office from the record of an individual in response to an inquiry from the Congressional office made at the request of that individual.
- 18. To members of Congress, the press, and the public in response to inquiries relating to particular Registrants and their activities, and other matters under the Commission's jurisdiction.
- 19. To prepare and publish information relating to violations of the Federal securities laws as provided in 15 U.S.C. 78c(a)(47)), as amended.
- 20. To respond to subpoenas in any litigation or other proceeding.
- 21. To a trustee in bankruptcy.
- 22. To any governmental agency, governmental or private collection agent, consumer reporting agency or commercial reporting agency, governmental or private employer of a debtor, or any other person, for collection,

including collection by administrative offset, Federal salary offset, tax refund offset, or administrative wage garnishment, of amounts owed as a result of Commission civil or administrative proceedings.

23. To another Federal agency or Federal entity, when the SEC determines that information from this system of records is reasonably necessary to assist the recipient agency or entity in (1) responding to a suspected or confirmed breach or (2) preventing, minimizing, or remedying the risk of harm to individuals, the recipient agency or entity (including its information systems, programs, and operations), the Federal Government, or national security, resulting from a suspected or confirmed breach.

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Small Business Owners: The SEC always welcomes comments on how it can better assist small businesses. If you would like more information, or have questions or comments about federal securities regulations as they affect small businesses, please contact the Office of Small Business Policy, in the SEC's Division of Corporation Finance, at 202-551-3460. If you would prefer to comment to someone outside of the SEC, you can contact the Small Business Regulatory Enforcement Ombudsman at http://www.sba.gov/ombudsman or toll free at 888-REG-FAIR. The Ombudsman's office receives comments from small businesses and annually evaluates federal agency enforcement activities for their responsiveness to the special needs of small business.



UNITED STATES SECURITIES AND EXCHANGE COMMISSION

100 PEARL STREET, SUITE 20-100 NEW YORK, NY 10004-2616

DIVISION OF ENFORCEMENT

February 29, 2024

VIA SECURE EMAIL

Prometheum, Inc. c/o Martin H. Kaplan Gusrae Kaplan Nusbaum PLLC 120 Wall Street, Floor 25 New York, NY 10005 mkaplan@gusraekaplan.com

Re: C-08950

Dear Mr. Kaplan:

The enclosed subpoena has been issued pursuant to a formal order entered by the United States Securities and Exchange Commission. Pursuant to Rule 8 of the United States Securities and Exchange Commission's Rules Relating to Investigations, 17 C.F.R. § 203.8, I have enclosed a subpoena for documents issued to Prometheum, Inc. ("Prometheum") in connection with the above-referenced investigation.

The enclosed subpoena requires Prometheum to produce documents to the SEC by March 14, 2024 to:

ENF-CPU U.S. Securities and Exchange Commission 14420 Albemarle Point Place, Suite 102 Chantilly, VA 20151-1750

For smaller electronic productions under 10MB in size, the materials may be emailed to the following email address: ENF-CPU@sec.gov.

	provide a duplicate	e copy of any d	locument produc	<u>tion cover</u> letters	to me at
$\widehat{w}_{\mathrm{Sec.gov}}^{\mathrm{(b)(6);\;(b)(7)(C)}}\widehat{w}_{\mathrm{Sec.gov}}$	(b)(6); (b)(7)(C)	nt (b)(6); (b)(7)(C) (a);	sec.gov, (b)(6); (b)(7	o(C)	
(b)(6); (b)(7)(C)	v, and (b)(6); (b)(7)(C)	at (b)(6); (b)(7)(C)		tionally, please i	nclude the
SEC matter numbe	r and the name of t		attorney when re	sponding.	

Please carefully read the subpoena attachment, which contains, among other things, important instructions related to the manner of producing documents. In particular, if Prometheum prefers to send us copies of original documents, the staff requests that you scan and produce hard copy documents, as well as electronic documents, in an electronic format consistent with the SEC Data Delivery Standards attached hereto. All electronic documents responsive to the subpoena, including all metadata, should also be produced in their native software format. If you have any questions concerning the production of documents in an electronic format, please contact me as soon as possible and in any event before producing documents. For security reasons, we strongly encourage the encryption of sensitive documents before production.

When producing the records, please consecutively number and mark each document produced with a symbol that identifies it as being produced by Prometheum and provide an index which briefly identifies the documents produced.

In your cover letter(s) accompanying the production of responsive documents, please enclose a list briefly describing each item you send. The list should identify the paragraph(s) in the subpoena attachment to which each item responds. Please also state in the cover letter(s) whether you believe Prometheum has met the obligations of the subpoena by searching carefully and thoroughly for everything called for by the subpoena and sending it all to us.

A copy of the subpoena should be included with the documents that are produced. Correspondence should reference case number and requesting SEC staff member.

Passwords for documents, files, compressed archives, and encrypted media should be provided separately either via email addressed to ENF-CPU@sec.gov, or in a separate cover letter mailed separately from the data. Password correspondence should reference case number and requesting SEC staff member.

In addition, for any documents that qualify as records of regularly conducted activities under Federal Rule of Evidence 902(11), please have the appropriate representative(s) of Prometheum complete a business records certification (a sample of which is enclosed) and return it with the document production. Execution of this certification may allow the Commission to introduce the documents provided by Prometheum in any subsequent judicial proceeding, without requiring the testimony of a records custodian.

Enclosed is a copy of the Commission's Form 1662, entitled "Supplemental Information for Persons Requested to Supply Information Voluntarily or Directed to Supply Information Pursuant to a Commission Subpoena." This form explains how we may use the information which Prometheum provides to the Commission and has other important information.

This investigation is a non-public, fact-finding inquiry. We are trying to determine whether there have been any violations of the federal securities laws. The investigation does not mean that we have concluded that anyone has violated the law. Also, the investigation does not mean that we have a negative opinion of any person, entity, or security.

If you have any questions or would like to discuss this matter, you may contact me at (b)(6); (b)(7)(C)

Sincerely,
(b)(6); (b)(7)(C)
Dayigion of Entorcoment
Division of Enforcement
(b)(6); (b)(7)(C)
(b)(6); (b)(7)(C) @sec.gov

Enclosures: Subpoena and Attachment

Business Records Certification SEC Data Delivery Standards

SEC Form 1662



SUBPOENA

UNITED STATES OF AMERICA SECURITIES AND EXCHANGE COMMISSION

C-08950

To: Prometheum, Inc. c/o Martin H. Kaplan Gusrae Kaplan Nusbaum PLLC 120 Wall Street, Floor 25 New York, NY 10005

YOU MUST PRODUCE everything specified in the Attachment to this subpoena to officers of the Securities and Exchange Commission, at the place, date and time specified below:

ENF-CPU, U.S. Securities and Exchange Commission, 14420 Albemarle Point Place, Suite 102 Chantilly, VA 20151-1750, no later than March 14, 2024.

YOU MUST TESTIFY before officers of the Securities and Exchange Commission, at the place, date and time specified below:

FEDERAL LAW REQUIRES YOU TO COMPLY WITH THIS SUBPOENA.

If you do not comply with this subpoena, the SEC may bring an action in Federal Court to enforce this subpoena. Failure to comply with a court order enforcing this subpoena may result in the court imposing a fine, imprisonment, or both.

By: (b)(6); (b)(7)(C) Date: February 29, 2024

U.S. Securities and Exchange Commission New York Regional Office 100 Pearl Street, Suite 20-100 New York, NY 10004-2616

I am an officer of the U.S. Securities and Exchange Commission authorized to issue subpoenas in this matter. The Securities and Exchange Commission has issued a formal order authorizing this investigation under Section 20(a) of the Securities Act of 1933.

NOTICE TO WITNESS: If you claim a witness fee or mileage, submit this subpoena with the claim voucher.

SUBPOENA ATTACHMENT FOR PROMETHEUM, INC.

C-08950

February 29, 2024

Definitions

As used in this subpoena, the words and phrases listed below shall have the following meanings:

- 1. "Prometheum, Inc." means the entity doing business under the name "Prometheum, Inc.," including parents, subsidiaries, affiliates, predecessors, successors, officers, directors, employees, agents, general partners, limited partners, partnerships and aliases, code names, or trade or business names used by any of the foregoing.
- 2. "Communication" means any correspondence, contact, discussion, e-mail, instant message, or any other kind of oral or written exchange or transmission of information (in the form of facts, ideas, inquiries, or otherwise), including but not limited to those made on Social Media Services, and any response thereto between two or more Persons or entities, including, without limitation, all telephone conversations, face-to-face meetings or conversations, internal or external discussions, or exchanges of a Document or Documents.
- 3. "Concerning" means directly or indirectly, in whole or in part, describing, constituting, evidencing, recording, evaluating, substantiating, concerning, referring to, alluding to, in connection with, commenting on, relating to, regarding, discussing, showing, analyzing or reflecting.
- 4. "ConsenSys" means the entity or business doing business under the name ConsenSys Software, Inc., including parents, subsidiaries, affiliates, predecessors, successors, officers, directors, employees, agents, general partners, limited partners, partnerships and aliases, owners, code names, or trade or business names used by any of the foregoing.
- 5. "Document" shall include, but is not limited to, any written, printed, or typed matter including, but not limited to all drafts and copies bearing notations or marks not found in the original, letters and correspondence, interoffice communications, slips, tickets, records, worksheets, financial records, accounting documents, bookkeeping documents, memoranda, reports, manuals, telephone logs, facsimiles, messages of any type, telephone messages, text messages, voice mails, tape recordings, notices, instructions, minutes, summaries, notes of meetings, file folder markings, and any other organizational indicia, purchase orders, information recorded by photographic process, including microfilm and microfiche, computer printouts, spreadsheets, and other electronically stored information, including writings, drawings, graphs, charts, photographs, sound recordings, images, and other data or data compilations that are stored in any medium from which information can be retrieved, obtained, manipulated, or translated.

- 6. "ETH" means Ether or the native crypto asset for the Ethereum blockchain and network.
- 7. "Ethereum Developers" refers to any anyone developing on the Ethereum blockchain and network, including, but not limited to, Ethereum protocol developers also known as Ethereum core developers.
- 8. The "Ethereum Foundation" means the entity or business doing business under the name "Ethereum Foundation," including, but not limited to, ethereum.org and parents, subsidiaries, affiliates, predecessors, successors, officers, directors, employees, agents, general partners, limited partners, partnerships and aliases, owners, code names, or trade or business names used by any of the foregoing.
- 9. "The Merge" or "Ethereum 2.0" means the transition by the Ethereum blockchain of its consensus mechanism from proof-of-work to proof-of-stake.
- 10. The term "You" and "Your" means the Person to whom or entity to which this subpoena was issued.
- 11. To the extent necessary to bring within the scope of this this subpoena any information or Documents that might otherwise be construed to be outside its scope:
 - a. the word "or" means "and/or";
 - b. the word "and" means "and/or";
 - c. the functional words "each," "every" "any" and "all" shall each be deemed to include each of the other functional words;
 - d. the masculine gender includes the female gender and the female gender includes the masculine gender; and
 - e. the singular includes the plural and the plural includes the singular.

Instructions

- 1. Unless otherwise specified, this subpoena calls for production of the original Documents and all copies and drafts of same. Documents responsive to this subpoena may be in electronic or paper form. Electronic Documents such as email should be produced in accordance with the attached Document entitled SEC Data Delivery Standards. All responsive electronic Documents, including all metadata, should also be produced in their native software format.
- 2. For Documents in paper format, you may send the originals, or, if you prefer, you may send copies of the originals. The Commission cannot reimburse you for the copying costs. If you are sending copies, the staff requests that you scan (rather than photocopy) hard copy Documents and produce them in an electronic format consistent with the SEC Data Delivery Standards. Alternatively, you may send us photocopies of the Documents in paper format. If you choose to send copies, you <u>must</u> secure and retain the originals and store them in a safe place. The staff may later request or require that you produce the originals.

- 3. Whether you scan or photocopy Documents, the copies must be identical to the originals, including even faint marks or print. Also, please note that if copies of a Document differ in any way, they are considered separate Documents and you must send each one. For example, if you have two copies of the same letter, but only one of them has handwritten notes on it, you must send both the clean copy and the one with notes.
- 4. In producing a photocopy of an original Document that contains post-it(s), notation flag(s), or other removable markings or attachments which may conceal all or a portion of the markings contained in the original Document, photocopies of the original Document both with and without the relevant post-it(s), notation flag(s), or removable markings or attachments should be produced.
- 5. Documents should be produced as they are kept in the ordinary course of business or be organized and labeled to correspond with the categories in this request. In that regard, Documents should be produced in a unitized manner, i.e., delineated with staples or paper clips to identify the Document boundaries.
- 6. Documents should be labeled with sequential numbering (bates-stamped).
- 7. The scope of any given request should not be limited or narrowed on the basis that it calls for Documents that are responsive to another request.
- 8. This subpoena covers all Documents in or subject to your possession, custody or control, including all Documents that are not in your immediate possession but that you have the effective ability to obtain, that are responsive, in whole or in part, to any of the individual requests set forth below. If, for any reason including a claim of attorney-client privilege you do not produce something called for by the request, you should submit a list of what you are not producing. The list should describe each item separately, noting:
 - a. its author(s);
 - b. its date:
 - c. its subject matter;
 - d. the name of the Person who has the item now, or the last Person known to have it;
 - e. the names of everyone who ever had the item or a copy of it, and the names of everyone who was told the item's contents;
 - f. the basis upon which you are not producing the responsive Document;
 - g. the specific request in the subpoena to which the Document relates;
 - h. the attorney(s) and the client(s) involved; and
 - i. in the case of the work product doctrine, the litigation for which the Document was prepared in anticipation.
- 9. If Documents responsive to this subpoena no longer exist because they have been lost, discarded, or otherwise destroyed, you should identify such Documents and give the date on which they were lost, discarded, or destroyed.

Documents to be Produced

- 1. Documents and Communications Concerning any legal analysis of ETH, the Merge, or Ethereum 2.0, including, but not limited to, Communications with the Ethereum Foundation, ConsenSys, or Ethereum Developers. Please note that the above Instructions discuss the procedures for how to handle privileged documents.
- 2. Documents upon which You relied in any analysis responsive to Request No. 1 above.
- 3. Communications with any regulator or government agency in the U.S. or a foreign country Concerning ETH, the Merge, or Ethereum 2.0, including, but not limited to, Communications by attorneys or agents representing you.

DECLARATION OF [Insert Name] CERTIFYING RECORDS OF REGULARLY CONDUCTED BUSINESS ACTIVITY

I, the undersigned, [insert name], pursuant to 28 U.S.C. § 1746, declare that:

- 1. I am employed by [insert name of company] as [insert position] and by reason of my position am authorized and qualified to make this declaration. [if possible supply additional information as to how person is qualified to make declaration, e.g., I am custodian of records, I am familiar with the company's recordkeeping practices or systems, etc.]
- 2. I further certify that the documents [attached hereto or submitted herewith] and stamped [insert bates range] are true copies of records that were:
 - (a) made at or near the time of the occurrence of the matters set forth therein, by, or from information transmitted by, a person with knowledge of those matters;
 - (b) kept in the course of regularly conducted business activity; and
 - (c) made by the regularly conducted business activity as a regular practice.

I declare under penalty of perjury that the foregoing is true and correct. Executed on [date].

 [Name]	



U.S. Securities and Exchange Commission

Data Delivery Standards

This document describes the technical requirements for paper and electronic document productions to the U.S. Securities and Exchange Commission (SEC). **Any questions or proposed file formats other than those described below must be discussed with the legal and technical staff of the SEC Division of Enforcement prior to submission. **

JUI	Clat Histocholis	
Deli	very Formats	. 2
	Imaged Productions	7
	1. lmages	7
	2. Image Cross-Reference File	
	3. Data File	
	4. Text	
	5. Linked Native Files	
ĺ	I. Native File Productions without Load Files	. 4
I	II. Adobe PDF File Productions	۷.
[V. Audio Files	. 4
١	V. Video Files	. 4
١	VI. Electronic Trade and Bank Records	. 4
١	/II. Electronic Phone Records	. 4
	/III. Audit Workpapers	
[X. Mobile Device Data	5

General Instructions

General Instructions

The current mailing address for all physical productions sent to the SEC is:

ENF-CPU (U.S. Securities & Exchange Commission), 14420 Albemarle Point Place, Suite 102, Chantilly, VA 20151-1750

Electronic files must be produced in their native format, i.e. the format in which they are ordinarily used and maintained during the normal course of business. For example, an MS Excel file must be produced as an MS Excel file rather than an image of a spreadsheet. (Note: An Adobe PDF file is not considered a native file unless the document was initially created as a PDF.)

In the event produced files require the use of proprietary software not commonly found in the workplace, the SEC will explore other format options with the producing party.

The proposed use of file de-duplication methodologies or computer-assisted review or technology-assisted review (TAR) during the processing of documents must be discussed with and approved by the legal and technical staff of the Division of Enforcement (ENF). If your production will be de-duplicated it is vital that you 1) preserve any unique metadata associated with the duplicate files, for example, custodian name and file location and, 2) make that unique metadata part of your production to the SEC.

General requirements for ALL document productions are:

- 1. A cover letter must be included with each production and should include the following information:
 - a. Case number, ease name and requesting SEC staff member name
 - b. A list of each piece of media included in the production with its unique production volume number
 - c. A list of custodians, identifying the Bates range for each custodian
 - d. A list of redacted documents and the redaction reason
 - c. The time zone in which the emails were standardized during conversion
 - f. Whether the production contains native files produced from Mac operating system environments
- Data can be produced on CD, DVD, thumb drive, etc., using the media requiring the least number of deliverables and labeled with the following:
 - a. Case number
 - b. Production date
 - c. Producing party
 - d. Bates range (if applicable)
- All submissions must be organized by custodian unless otherwise instructed.
- 4. All document family groups, i.e. email attachments, embedded files, etc., should be produced together and children files should follow parent files sequentially in the Bates numbering.
- 5. All load-ready collections should include only one data load file and one image pointer file.
- 6. All load-ready text must be produced as separate document-level text files.
- 7. All load-ready collections should account for custodians in the custodian field.
- All load-ready collections must provide the extracted contents of any container files to ensure all relevant files are produced as separate records.
- 9. Audio files should be separated from data files if both are included in the production.
- 10. Only alphanumeric characters and the underscore character are permitted in file names and folder names. Special characters are not permitted.
- 11. All electronic productions submitted on media must be produced using industry standard self-extracting encryption software.
- 12. The SEC uses 7zip to access compressed files. Note that the SEC cannot accept files that use AES-256 Jpeg or pkAES-256-Cert Deflate compression methods, even if the files are created with 7zip. If you have any questions or need additional information, please reach out to the requesting SEC staff member.
- 13. Electronic productions of 30 GB or less are strongly encouraged to be submitted via Secure File Transfer. All Secure File Transfers should be sent to the SEC Centralized Production Unit (ENF-CPU@sec.gov) with a CC to the requesting SEC staff member. If you do not have your own Secure File Transfer application, you may reach out to the requesting SEC staff member for a link to the SEC system in order to upload your production. If using the SEC Secure File Transfer system, you will NOT be able to CC individuals outside the SEC on your upload transmission. Note that the SEC cannot accept productions made using file sharing sites such as Google Drive or Microsoft Office 365.
- 14. Productions containing BSA or SAR material must be encrypted. Secure File Transfer applications may be used to produce BSA or SAR material. BSA or SAR material should be segregated and appropriately marked as BSA or SAR, or should be produced separately from other case related records.
- 15. Passwords for electronic documents, files, compressed archives and encrypted media must be provided separately either via email or in a cover letter apart from the media.
- 16. All electronic productions should be produced free of computer viruses.
- 17. Before producing forensically collected images, parties should reach out to the requesting SEC staff member in order to discuss appropriate handling.
- 18. Before producing unique data sets (large sets of relational data, website reconstruction, chat room data, etc.), parties should reach out to the requesting SEC staff member in order to discuss an appropriate production format.
- Additional technical descriptions can be found in the addendum to this document.

Please note that productions sent to the SEC via United States Postal Service are subject to Mail Irradiation, and as a result electronic productions may be damaged.

Delivery Formats

Imaged Productions

The SEC prefers that all scanned paper and electronic file collections be produced in a structured format including industry standard load files, Bates numbered image files, native files and searchable document-level text files. Bates numbers should not contain spaces. Hyphens (-) and underscores (-) are acceptable.

1. Images

- Black and white images must be 300 DPI Group IV single-page TIFF files
- b. Color images must be produced in JPEG format
- File names cannot contain embedded spaces or special characters (including the comma)
- d. Folder names cannot contain embedded spaces or special characters (including the comma)
- e. All image files must have a unique file name, i.e. Bates number
- f. Images must be endorsed with sequential Bates numbers in the lower right corner of each image
- The number of image files per folder should not exceed 2,000 files g.
- h. Excel spreadsheets should have a placeholder image named by the Bates number of the file
- AUTOCAD/photograph files should be produced as a single page JPEG file

2. Image Cross-Reference File

The image cross-reference file (LOG or .OPT) links the images to the database records. It should be a comma-delimited file consisting of seven fields per line with a line in the cross-reference file for every image in the database with the following format:

ImageID, VolumeLabel, ImageFilePath, DocumentBreak, FolderBreak, BoxBreak, PageCount

3. Data File

The data file (.DAT) contains all of the fielded information that will be loaded into the database.

- The first line of the .DAT file must be a header row identifying the field names
- The .DAT file must use the following *Concordance*® default delimiters:

Comma ¶ ASCII character (020)

Quote b ASCII character (254)

- c. If the .DAT file is produced in Unicode format it must contain the byte order marker
- d. Date fields should be provided in the format: mm/dd/yyyy
- Date and time fields must be two separate fields
- The time zone must be included in all time fields f.
- If the production includes imaged emails and attachments, the attachment fields must be included to preserve the parent/child relationship between an email and its attachments
- An OCRPATH field must be included to provide the file path and name of the extracted text file on the produced storage media. The text file must be named after the FIRSTBATES. Do not include the text in the .DAT file.
- For productions with native files, a LINK field must be included to provide the file path and name of the native file on the produced storage media. The native file must be named after the FIRSTBATES.
- BEGATTACH and ENDATTACH fields must be two separate fields
- A complete list of metadata fields is available in Addendum A to this document

4. Text

Text must be produced as separate document-level text files, not as fields within the .DAT file. The text files must be named per the FIRSTBATES/Image Key and the full path to the text file (OCRPATII) should be included in the .DAT file. Text files may be in either ANSI or Unicode format, however, ALL text files must be in the same format within the same production. Note that productions containing text with foreign characters must produce text files in Unicode format to preserve the foreign characters. Text files must be in a separate folder, and the number of text files per folder should not exceed 2,000 files. There should be no special characters (including commas) in the folder names. For redacted documents, provide the full text for the redacted version.

Linked Native Files

Copies of original email and native file documents/attachments must be included for all electronic productions.

- a. Native file documents must be named per the FIRSTBATES number
- b. The full path of the native file must be provided in the .DAT file for the LINK field
- The number of native files per folder should not exceed 2,000 files

II. Native File Production without Load Files

With prior approval, native files may be produced without load files. Native file productions should not be Bates numbered. Native files must be produced as they are maintained in the normal course of business and organized by custodian-named file folders. Native email files (.PST or .MBOX) must be separated by custodian.

III. Adobe PDF File Production

With prior approval, Adobe PDF files may be produced in native file format.

- 1. All PDFs must be unitized at the document level, i.e. each PDF must represent a discrete document.
- 2. PDF files should be produced in separate folders named by the custodian. The folders should not contain any special characters (including commas).
- 3. All PDF files must contain embedded text that includes all discernible words within the document, not selected text or image only. This requires all layers of the PDF to be flattened first.
- 4. If PDF files are Bates endorsed, the PDF files must be named by the Bates range.

IV. Audio Files

Audio files from telephone recording systems must be produced in a format that is playable using Microsoft Windows Media PlayerTM. Additionally, the call information (metadata) related to each audio recording MUST be provided. The metadata file must be produced in a delimited text format. Field names must be included in the first row of the text file. The metadata must include, at a minimum, the following fields:

1) Caller Name: Caller's name or account/identification number

2) Originating Number: Caller's phone number3) Called Party Name: Called party's name

4) Terminating Number: Called party's phone number

5) Date: Date of call
6) Time: Time of call

7) Filename: Filename of audio file

V. Video Files

Video files must be produced in a format that is playable using Microsoft Windows Media Player™.

VI. Electronic Trade and Bank Records

When producing electronic trade records, bank records, or financial statements, provide the files in one of the following formats:

- 1. MS Excel spreadsheet with header information detailing the field structure. If any special codes exist in the dataset, a separate document must be provided that details all such codes. If details of the field structure do not fit in the header, a separate document must be provided that includes such details.
- 2. Delimited text file with header information detailing the field structure. The preferred delimiter is a vertical bar "|". If any special codes exist in the dataset, a separate document must be provided that details all such codes. If details of the field structure do not fit in the header, a separate document must be provided that includes such details.

VII. Electronic Phone Records

When producing an MS Excel spreadsheet for electronic phone records, provide the files in the following format:

- 1. MS Excel spreadsheet with header information detailing the field structure. If any special codes exist in the dataset, a separate document must be provided that details all such codes. If details of the field structure do not fit in the header, a separate document must be provided that includes such details. Data must be formatted in its native format (i.e. dates in a date format, numbers in an appropriate numerical format, and numbers with leading zeroes as text).
 - a. The metadata that must be included is outlined in **Addendum B** of this document. Each field of data must be loaded into a separate column. For example, Date and Start_Time must be produced in separate columns and not combined into a single column containing both pieces of information. Any fields of data that are provided in addition to those listed in **Addendum B** must also be loaded into separate columns.

Case 1:24-cv-01858-ACR Document 26-1 Filed 02/04/25 Page 301 of 933

Data Delivery Standards

VIII. Audit Workpapers

The SEC prefers for workpapers to be produced in two formats: (1) With Bates numbers in accordance with the SEC Data Delivery Standards; and (2) in native format via laptop computer, web-based viewing platform, or otherwise, allowing for viewing in the same format and organization as the firm's audit team. Prior to production of workpapers via laptop computer or web-based viewing platform, audit firms should contact the requesting SEC staff member for additional information and written agreements addressing use of software, access, and viewing protocols.

IX. Mobile Device Data

Before producing any mobile device data (including but not limited to text messages and application data) parties should reach out to the requesting SEC staff member in order to discuss the appropriate production format. Productions containing chat data from applications must be identified at the time of production and the following information must be provided to the requesting SEC staff member and the SEC Centralized Production Unit: chat application, chat data format, and how the length of a chat is determined (i.e. set duration of time, number of minutes without messages, etc.)

ADDENDUM A

The metadata of electronic document collections should be extracted and provided in a .DAT file using the field definition and formatting described below:

Field Name	Sample Data	Description	
FIRSTBATES	EDC0000001	First Bates number of native file document/email	
LASTBATES	EDC0000001	Last Bates number of native file document/email	
		**The LASTBATES field should be populated	
		for single page documents/emails.	
ATTACHRANGE	EDC0000001 - EDC0000015	Bates number of the first page of the parent	
		document to the Bates number of the last page of the	
		last attachment "child" document	
BEGATTACH	EDC0000001	First Bates number of attachment range	
ENDATTACH	EDC0000015	Last Bates number of attachment range	
PARENT_BATES	EDC0000001	First Bates number of parent document/Email **This PARENT_BATES field should be populated	
		in each record representing an attachment "child"	
		document	
CHILD BATES	EDC0000002; EDC0000014	First Bates number of "child" attachment(s); can be	
		more than one Bates number listed depending on the	
		number of attachments	
		**The CHILD BATES field should be populated in	
		each record representing a "parent" document	
CUSTODIAN	Smith, John	Email: Mailbox where the email resided	
		Native: Name of the individual or department from	
		whose files the document originated	
FROM	John Smith	Email: Sender	
		Native: Author(s) of document	
		**semi-colon should be used to separate multiple	
		entries	
TO	Coffman, Janice; LeeW	Recipient(s)	
	[mailto:LecW@MSN.com]	**semi-colon should be used to separate multiple	
		entries	
CC	Frank Thompson [mailto:	Carbon copy recipient(s)	
	frank_Thompson@cdt.com]	**semi-colon should be used to separate multiple	
D.C.C.		entries	
BCC	John Cain	Blind carbon copy recipient(s)	
		**semi-colon should be used to separate multiple	
SUBJECT	Board Meeting Minutes	entries	
SUBJECT	Board Meeting Minutes	Email: Subject line of the email Native: Title of document (if available)	
FILE_NAME	BoardMeetingMinutes.docx	Native: Name of the original native file, including	
TILE_INVINE	Board.Meeting.Willules.docx	extension	
DATE SENT	10/12/2010	Email: Date the email was sent	
DATE SERVE	10/12/2010	Native: (empty)	
TIME SENT/TIME	07:05 PM GMT	Email: Time the email was sent/ Time zone in whic	
ZONE		the emails were standardized during conversion.	
		Native: (empty)	
		**This data must be a separate field and cannot be	
		combined with the DATE_SENT field	
TIME_ZONE	GMT	The time zone in which the emails were standardized	
		during conversion.	
		Email: Time zone	
		Native: (empty)	
	·		

LINK	D:\001\EDC0000001.msg	Hyperlink to the email or native file document **The linked file must be named per the FIRSTBATES number	
MIME_TYPE	application/msword	The content type of an email or native file document as identified/extracted from the header	
FILE_EXTEN	MSG	The file type extension representing the email or native file document; will vary depending on the format	
AUTHOR	John Smith	Email: (empty) Native: Author of the document	
LAST_AUTHOR	Jane Doe	Email: (empty) Native: Last Author of the document	
DATE_CREATED	10/10/2010	Email: (empty) Native: Date the document was created	
TIME_CREATED/T IME_ZONE	10:25 AM GMT	Email: (empty) Native: Time the document was created including time zone **This data must be a separate field and cannot be combined with the DATE_CREATED field	
DATE_MOD	10/12/2010	Email: (empty) Native: Date the document was last modified	
TIME_MOD/TIME_ ZONE	07:00 PM GMT	Email: (empty) Native: Time the document was last modified including the time zone **This data must be a separate field and cannot be combined with the DATE_MOD field	
DATE_ACCESSD	10/12/2010	Email: (empty) Native: Date the document was last accessed	
TIME_ACCESSD/T IME_ZONE	07:00 PM GMT	Email: (empty) Native: Time the document was last accessed including the time zone **This data must be a separate field and cannot be combined with the DATE_ACCESSD field	
PRINTED_DATE	10/12/2010	Email: (empty) Native: Date the document was last printed	
FILE_SIZE	5,952	Size of native file document/email in KB	
PGCOUNT	1	Number of pages in native file document/email	
PATH	J:\Shared\SmithJ\October Agenda.doc	Email: (empty) Native: Path where native file document was stored including original file name.	
INTFILEPATH	Personal Folders\Deleted Items\Board Meeting Minutes.msg	Email: original location of email including original file name. Native: (empty)	
INTMSGID	<000805c2c71bS75977050Scb 8306d1@MSN>	Email: Unique Message ID Native: (empty)	

Case 1:24-cv-01858-ACR Document 26-1 Filed 02/04/25 Page 304 of 933 Data Delivery Standards

HEADER SHA254	Return-Path: <example_from@dc.edu> X-SpamCatcher-Score:1[X] Received:from[136.167.40.119] (HELO dc.edu) by fe3.dc.edu (CommuniGate Pro SMTP4.1.8) with ESMTP-TLS id 61258719 for example_to@mail.dc.edu; Mon, 23 Aug 2004 11:40:10 - 0400 Message-ID: <4129F3CA.2020509@dc.edu> Date: Mon, 23 Aug 2005 11:40:36 -400 From: Taylor Evans <example_from@dc.edu> User-Agent:Mozilla/5.0 (Windows;U; Windows NT 5.1: en-US;rv:1.0.1) Gecko/20020823 Netscape/7.0 X-Accept-Language:en-us,en MIME-Version:1.0 To: Jon Smith <example_to@mail.dc.edu> Subject:Business Development Meeting Content-Type: text/plain;charset=us-ascii; format=flowed Content-Transfer-Encoding:7bit</example_to@mail.dc.edu></example_from@dc.edu></example_from@dc.edu>	Email: The email header information Native: (empty) SHA-256 hash value of the document.
SHA256	AD6128C5CA40164AF71A1E FC800E12D2F195CE07BB5F8 C813B0888A2DDE6A06F	SHA-230 hash value of the document.
OCRPATH	TEXT/001/EDC0000001.txt	Path to extracted text of the native file

Sample Image Cross-Reference File:

IMG000001,,E:\001\IMG0000001.TIF,Y,,,
IMG0000002,,E:\001\IMG0000002.TIF,,,,
IMG0000003,,E:\001\IMG0000003.TIF,,,,
IMG0000004,,E:\001\IMG0000005.TIF,Y,,,
IMG0000005,,E:\001\IMG0000005.TIF,Y,,,
IMG0000006,,E:\001\IMG0000006.TIF,,,,,

ADDENDUM B

For Electronic Phone Records, include the following fields in separate columns:

For Calls:

- 1) Account Number
- 2) Connection Date Date the call was received or made
- 3) Connection Time Time call was received or made
- 4) Seizure Time Time it took for the call to be placed in seconds
- 5) Originating Number Phone that placed the call
- 6) Terminating Number Phone that received the call
- 7) Elapsed Time The length of time the call lasted, preferably in seconds
- 8) End Time The time the call ended
- 9) Number Dialed Actual number dialed
- 10) IMEI Originating Unique id to phone used to make call
- 11) IMEI Terminating-Unique id to phone used to receive call
- 12) IMSI Originating Unique id to phone used to make call
- 13) IMSI Terminating- Unique id to phone used to receive call
- 14) Call Codes Identify call direction or other routing information
- 15) Time Zone Time Zone in which the call was received or placed, if applicable

For Text messages:

- 1) Account Number
- 2) Connection Date Date the text was received or made
- 3) Connection Time Time text was received or made
- 4) Originating Number Who placed the text
- 5) Terminating Number Who received the text
- 6) IMEI Originating Unique id to phone used to make text
- 7) IMEI Terminating—Unique id to phone used to receive text
- 8) IMSI Originating Unique id to phone used to make text
- 9) IMSI Terminating- Unique id to phone used to receive text
- 10) Text Code Identify text direction, or other text routing information
- 11) Text Type Code Type of text message (sent SMS, MMS, or other)
- 12) Time Zone Time Zone in which the call was received or placed, if applicable

For Mobile Data Usage:

- 1) Account Number
- 2) Connection Date Date the data was received or made
- 3) Connection Time Time data was received or made
- 4) Originating number Number that used data
- 5) IMEI Originating Unique id of phone that used data
- 6) IMSI Originating Unique id of phone that used data
- 7) Data or Data codes Identify data direction, or other data routing information
- 8) Time Zone Time Zone in which the call was received or placed, if applicable

SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549

Supplemental Information for Persons Requested to Supply Information Voluntarily or Directed to Supply Information Pursuant to a Commission Subpoena

A. False Statements and Documents

Section 1001 of Title 18 of the United States Code provides that fines and terms of imprisonment may be imposed upon:

[W]hoever, in any matter within the jurisdiction of the executive, legislative, or judicial branch of the Government of the United States, knowingly and willfully--

- (1) falsifies, conceals, or covers up by any trick, scheme, or device a material fact;
- (2) makes any materially false, fictitious, or fraudulent statement or representation; or
- (3) makes or uses any false writing or document knowing the same to contain any materially false, fictitious, or fraudulent statement or entry.

Section 1519 of Title 18 of the United States Code provides that fines and terms of imprisonment may be imposed upon:

Whoever knowingly alters, destroys, mutilates, conceals, covers up, falsifies, or makes a false entry in any record, document, or tangible object with the intent to impede, obstruct, or influence the investigation or proper administration of any matter within the jurisdiction of any department or agency of the United States . . ., or in relation to or contemplation of any such matter.

B. Testimony

If your testimony is taken, you should be aware of the following:

- 1. Record. Your testimony will be transcribed by a reporter. If you desire to go off the record, please indicate this to the Commission employee taking your testimony, who will determine whether to grant your request. The reporter will not go off the record at your, or your counsel's, direction.
- 2. Counsel. You have the right to be accompanied, represented and advised by counsel of your choice. Your counsel may advise you before, during and after your testimony; question you briefly at the conclusion of your testimony to clarify any of the answers you give during testimony; and make summary notes during your testimony solely for your use. If you are accompanied by counsel, you may consult privately.

If you are not accompanied by counsel, please advise the Commission employee taking your testimony if, during the testimony, you desire to be accompanied, represented and advised by counsel. Your testimony will be adjourned once to afford you the opportunity to arrange to be so accompanied, represented or advised.

You may be represented by counsel who also represents other persons involved in the Commission's investigation. This multiple representation, however, presents a potential conflict of interest if one client's interests are or may be adverse to another's. If you are represented by counsel who also represents other persons involved in the investigation, the Commission will assume that you and counsel have discussed and resolved all issues concerning possible conflicts of interest. The choice of counsel, and the responsibility for that choice, is yours.

3. Transcript Availability. Rule 6 of the Commission's Rules Relating to Investigations, 17 CFR 203.6, states:

A person who has submitted documentary evidence or testimony in a formal investigative proceeding shall be entitled, upon written request, to procure a copy of his documentary evidence or a transcript of his testimony on payment of the appropriate fees: *Provided, however*, That in a nonpublic formal investigative proceeding the Commission may for good cause deny such request. In any event, any witness, upon proper identification, shall have the right to inspect the official transcript of the witness' own testimony.

If you wish to purchase a copy of the transcript of your testimony, the reporter will provide you with a copy of the appropriate form. Persons requested to supply information voluntarily will be allowed the rights provided by this rule.

4. *Perjury.* Section 1621 of Title 18 of the United States Code provides that fines and terms of imprisonment may be imposed upon:

Whoever-

(1) having taken an oath before a competent tribunal, officer, or person, in any case in which a law of the United States authorizes an oath to be administered, that he will testify, declare,

depose, or certify truly, or that any written testimony, declaration, deposition, or certificate by him subscribed, is true, willfully and contrary to such oath states or subscribes any material matter which he does not believe to be true; or

- (2) in any declaration, certificate, verification, or statement under penalty of perjury as permitted under section 1746 of title 28, United States Code, willfully subscribes as true any material matter which he does not believe to be true.
- 5. Fifth Amendment and Voluntary Testimony. Information you give may be used against you in any federal, state, local or foreign administrative, civil or criminal proceeding brought by the Commission or any other agency.

You may refuse, in accordance with the rights guaranteed to you by the Fifth Amendment to the Constitution of the United States, to give any information that may tend to incriminate you.

If your testimony is not pursuant to subpoena, your appearance to testify is voluntary, you need not answer any question, and you may leave whenever you wish. Your cooperation is, however, appreciated.

6. Formal Order Availability. If the Commission has issued a formal order of investigation, it will be shown to you during your testimony, at your request. If you desire a copy of the formal order, please make your request in writing.

C. Submissions and Settlements

Rule 5(c) of the Commission's Rules on Informal and Other Procedures, 17 CFR 202.5(c), states:

Persons who become involved in . . . investigations may, on their own initiative, submit a written statement to the Commission setting forth their interests and position in regard to the subject matter of the investigation. Upon request, the staff, in its discretion, may advise such persons of the general nature of the investigation, including the indicated violations as they pertain to them, and the amount of time that may be available for preparing and submitting a statement prior to the presentation of a staff recommendation to the Commission for the commencement of an administrative or injunction proceeding. Submissions by interested persons should be forwarded to the appropriate Division Director or Regional Director with a copy to the staff members conducting the investigation and should be clearly referenced to the specific investigation to which they relate. In the event a recommendation for the commencement of an enforcement proceeding is presented by the staff, any submissions by interested persons will be forwarded to the Commission in conjunction with the staff memorandum.

The staff of the Commission routinely seeks to introduce submissions made pursuant to Rule 5(c) as evidence in Commission enforcement proceedings, when the staff deems appropriate.

Rule 5(f) of the Commission's Rules on Informal and Other Procedures, 17 CFR 202.5(f), states:

In the course of the Commission's investigations, civil lawsuits, and administrative proceedings, the staff, with appropriate authorization, may discuss with persons involved the disposition of such matters by consent, by settlement, or in some other manner. It is the policy of the Commission, however, that the disposition of any such matter may not, expressly or impliedly, extend to any criminal charges that have been, or may be, brought against any such person or any recommendation with respect thereto. Accordingly, any person involved in an enforcement matter before the Commission who consents, or agrees to consent, to any judgment or order does so solely for the purpose of resolving the claims against him in that investigative, civil, or administrative matter and not for the purpose of resolving any criminal charges that have been, or might be, brought against him. This policy reflects the fact that neither the Commission nor its staff has the authority or responsibility for instituting, conducting, settling, or otherwise disposing of criminal proceedings. That authority and responsibility are vested in the Attorney General and representatives of the Department of Justice.

D. Freedom of Information Act

The Freedom of Information Act, 5 U.S.C. 552 (the "FOIA"), generally provides for disclosure of information to the public. Rule 83 of the Commission's Rules on Information and Requests, 17 CFR 200.83, provides a procedure by which a person can make a written request that information submitted to the Commission not be disclosed under the FOIA. That rule states that no determination as to the validity of such a request will be made until a request for disclosure of the information under the FOIA is received. Accordingly, no response to a request that information not be disclosed under the FOIA is necessary or will be given until a request for disclosure under the FOIA is received. If you desire an acknowledgment of receipt of your written request that information not be disclosed under the FOIA, please provide a duplicate request, together with a stamped, self-addressed envelope.

E. Authority for Solicitation of Information

Persons Directed to Supply Information Pursuant to Subpoena. The authority for requiring production of information is set forth in the subpoena. Disclosure of the information to the Commission is mandatory, subject to the valid assertion of any legal right or privilege you might have.

Persons Requested to Supply Information Voluntarily. One or more of the following provisions authorizes the Commission to solicit the information requested: Sections 19 and/or 20 of the Securities Act of 1933; Section 21 of the Securities Exchange Act of 1934; Section 321 of the Trust Indenture Act of 1939; Section 42 of the Investment Company Act of 1940; Section 209 of the Investment Advisers Act of 1940; and 17 CFR 202.5. Disclosure of the requested information to the Commission is voluntary on your part.

F. Effect of Not Supplying Information

Persons Directed to Supply Information Pursuant to Subpoena. If you fail to comply with the subpoena, the Commission may seek a court order requiring you to do so. If such an order is obtained and you thereafter fail to supply the information, you may be subject to civil and/or criminal sanctions for contempt of court. In addition, Section 21(c) of the Securities Exchange Act of 1934, Section 42(c) of the Investment Company Act of 1940, and Section 209(c) of the Investment Advisers Act of 1940 provide that fines and terms of imprisonment may be imposed upon any person who shall, without just cause, fail or refuse to attend and testify or to answer any lawful inquiry, or to produce books, papers, correspondence, memoranda, and other records in compliance with the subpoena.

Persons Requested to Supply Information Voluntarily. There are no direct sanctions and thus no direct effects for failing to provide all or any part of the requested information.

G. Principal Uses of Information

The Commission's principal purpose in soliciting the information is to gather facts in order to determine whether any person has violated, is violating, or is about to violate any provision of the federal securities laws or rules for which the Commission has enforcement authority, such as rules of securities exchanges and the rules of the Municipal Securities Rulemaking Board. Facts developed may, however, constitute violations of other laws or rules. Information provided may be used in Commission and other agency enforcement proceedings. Unless the Commission or its staff explicitly agrees to the contrary in writing, you should not assume that the Commission or its staff acquiesces in, accedes to, or concurs or agrees with, any position, condition, request, reservation of right, understanding, or any other statement that purports, or may be deemed, to be or to reflect a limitation upon the Commission's receipt, use, disposition, transfer, or retention, in accordance with applicable law, of information provided.

H. Routine Uses of Information

The Commission often makes its files available to other governmental agencies, particularly United States Attorneys and state prosecutors. There is a likelihood that information supplied by you will be made available to such agencies where appropriate. Whether or not the Commission makes its files available to other governmental agencies is, in general, a confidential matter between the Commission and such other governmental agencies.

Set forth below is a list of the routine uses which may be made of the information furnished.

- 1. To appropriate agencies, entities, and persons when (1) the SEC suspects or has confirmed that there has been a breach of the system of records, (2) the SEC has determined that as a result of the suspected or confirmed breach there is a risk of harm to individuals, the SEC (including its information systems, programs, and operations), the Federal Government, or national security; and (3) the disclosure made to such agencies, entities, and persons is reasonably necessary to assist in connection with the SEC's efforts to respond to the suspected or confirmed breach or to prevent, minimize, or remedy such harm.
- 2. To other Federal, state, local, or foreign law enforcement agencies; securities self-regulatory organizations; and foreign financial regulatory authorities to assist in or coordinate regulatory or law enforcement activities with the SEC.
- 3. To national securities exchanges and national securities associations that are registered with the SEC, the Municipal Securities Rulemaking Board; the Securities Investor Protection Corporation; the Public Company Accounting Oversight Board; the Federal banking authorities, including, but not limited to, the Board of Governors of the Federal Reserve System, the Comptroller of the Currency, and the Federal Deposit Insurance Corporation; state securities regulatory agencies or organizations; or regulatory authorities of a foreign government in connection with their regulatory or enforcement responsibilities.
- 4. By SEC personnel for purposes of investigating possible violations of, or to conduct investigations authorized by, the Federal securities laws.
- 5. In any proceeding where the Federal securities laws are in issue or in which the Commission, or past or present members of its staff, is a party or otherwise involved in an official capacity.
- 6. In connection with proceedings by the Commission pursuant to Rule 102(e) of its Rules of Practice, 17 CFR 201.102(e).

- 7. To a bar association, state accountancy board, or other Federal, state, local, or foreign licensing or oversight authority; or professional association or self-regulatory authority to the extent that it performs similar functions (including the Public Company Accounting Oversight Board) for investigations or possible disciplinary action.
- 8. To a Federal, state, local, tribal, foreign, or international agency, if necessary to obtain information relevant to the SEC's decision concerning the hiring or retention of an employee; the issuance of a security clearance; the letting of a contract; or the issuance of a license, grant, or other benefit.
- 9. To a Federal, state, local, tribal, foreign, or international agency in response to its request for information concerning the hiring or retention of an employee; the issuance of a security clearance; the reporting of an investigation of an employee; the letting of a contract; or the issuance of a license, grant, or other benefit by the requesting agency, to the extent that the information is relevant and necessary to the requesting agency's decision on the matter.
- 10. To produce summary descriptive statistics and analytical studies, as a data source for management information, in support of the function for which the records are collected and maintained or for related personnel management functions or manpower studies; may also be used to respond to general requests for statistical information (without personal identification of individuals) under the Freedom of Information Act.
- 11. To any trustee, receiver, master, special counsel, or other individual or entity that is appointed by a court of competent jurisdiction, or as a result of an agreement between the parties in connection with litigation or administrative proceedings involving allegations of violations of the Federal securities laws (as defined in section 3(a)(47) of the Securities Exchange Act of 1934, 15 U.S.C. 78c(a)(47)) or pursuant to the Commission's Rules of Practice, 17 CFR 201.100 through 900 or the Commission's Rules of Fair Fund and Disgorgement Plans, 17 CFR 201.1100 through 1106, or otherwise, where such trustee, receiver, master, special counsel, or other individual or entity is specifically designated to perform particular functions with respect to, or as a result of, the pending action or proceeding or in connection with the administration and enforcement by the Commission of the Federal securities laws or the Commission's Rules of Practice or the Rules of Fair Fund and Disgorgement Plans.
- 12. To any persons during the course of any inquiry, examination, or investigation conducted by the SEC's staff, or in connection with civil litigation, if the staff has reason to believe that the person to whom the record is disclosed may have further information about the matters related therein, and those matters appeared to be relevant at the time to the subject matter of the inquiry.
- 13. To interns, grantees, experts, contractors, and others who have been engaged by the Commission to assist in the performance of a service related to this system of records and who need access to the records for the purpose of assisting the Commission in the efficient administration of its programs, including by performing clerical, stenographic, or data analysis functions, or by reproduction of records by electronic or other means. Recipients of these records shall be required to comply with the requirements of the Privacy Act of 1974, as amended, 5 U.S.C.
- 14. In reports published by the Commission pursuant to authority granted in the Federal securities laws (as such term is defined in section 3(a)(47) of the Securities Exchange Act of 1934, 15 U.S.C. 78c(a)(47)), which authority shall include, but not be limited to, section 21(a) of the Securities Exchange Act of 1934, 15 U.S.C. 78u(a)).
- 15. To members of advisory committees that are created by the Commission or by Congress to render advice and recommendations to the Commission or to Congress, to be used solely in connection with their official designated functions.
- 16. To any person who is or has agreed to be subject to the Commission's Rules of Conduct, 17 CFR 200.735-1 through 200.735-18, and who assists in the investigation by the Commission of possible violations of the Federal securities laws (as such term is defined in section 3(a)(47) of the Securities Exchange Act of 1934, 15 U.S.C. 78c(a)(47)), in the preparation or conduct of enforcement actions brought by the Commission for such violations, or otherwise in connection with the Commission's enforcement or regulatory functions under the Federal securities laws.
- 17. To a Congressional office from the record of an individual in response to an inquiry from the Congressional office made at the request of that individual.
- 18. To members of Congress, the press, and the public in response to inquiries relating to particular Registrants and their activities, and other matters under the Commission's jurisdiction.
- 19. To prepare and publish information relating to violations of the Federal securities laws as provided in 15 U.S.C. 78c(a)(47)), as amended.
- 20. To respond to subpoenas in any litigation or other proceeding.
- 21. To a trustee in bankruptcy.
- 22. To any governmental agency, governmental or private collection agent, consumer reporting agency or commercial reporting agency, governmental or private employer of a debtor, or any other person, for collection,

including collection by administrative offset, Federal salary offset, tax refund offset, or administrative wage garnishment, of amounts owed as a result of Commission civil or administrative proceedings.

23. To another Federal agency or Federal entity, when the SEC determines that information from this system of records is reasonably necessary to assist the recipient agency or entity in (1) responding to a suspected or confirmed breach or (2) preventing, minimizing, or remedying the risk of harm to individuals, the recipient agency or entity (including its information systems, programs, and operations), the Federal Government, or national security, resulting from a suspected or confirmed breach.

* * * * *

Small Business Owners: The SEC always welcomes comments on how it can better assist small businesses. If you would like more information, or have questions or comments about federal securities regulations as they affect small businesses, please contact the Office of Small Business Policy, in the SEC's Division of Corporation Finance, at 202-551-3460. If you would prefer to comment to someone outside of the SEC, you can contact the Small Business Regulatory Enforcement Ombudsman at http://www.sba.gov/ombudsman or toll free at 888-REG-FAIR. The Ombudsman's office receives comments from small businesses and annually evaluates federal agency enforcement activities for their responsiveness to the special needs of small business.



UNITED STATES SECURITIES AND EXCHANGE COMMISSION

100 PEARL STREET, SUITE 20-100 NEW YORK, NY 10004-2616

DIVISION OF ENFORCEMENT

March 4, 2024

VIA email legalnotices@nethermind.io Demerzel Solutions Limited (t/a Nethermind) 30 Churchill Place London, England, E14 5EU

Re: C-08950

To Whom It May Concern:

The staff of the United States Securities and Exchange Commission is conducting an investigation relating to the above-referenced matter to determine if violations of the federal securities laws have occurred. In connection with this investigation, the staff requests that Demerzel Solutions Limited ("Nethermind") immediately preserve, and voluntarily provide us with, the information and documents set forth in Attachment A on or before March 18, 2024 at 5:00 pm ET.

Please send the materials electronically to enf-cpu@sec.gov with a copy to @sec.gov, @sec.gov, @sec.gov, @sec.gov, and @sec.gov, and @sec.gov. If you would like to use the Commission's secure electronic transfer site, Accellion/Kiteworks, please contact me and I will send you a link. If you prefer to send the materials on DVD or other electronic media, please send them to:

ENF-CPU (U.S. Securities & Exchange Commission) 14420 Albermarle Point Pl. Suite 102 Chantilly, VA 20151-1750

Please carefully read the attachment, which contains, among other things, important instructions related to the manner of producing documents. In particular, if you prefer to send us copies of original documents, the staff requests that you scan and produce hard copy documents, as well as electronic documents, in an electronic format consistent with the SEC Data Delivery Standards attached hereto. All electronic documents responsive to the document request, including all metadata, should also be produced in their native software format. If you have any questions concerning the production of documents in an electronic format, please contact me as soon as possible and in any event before producing documents.

In your cover letter(s) accompanying the production of responsive documents, please enclose a list briefly describing each item you send. The list should state to which paragraph(s) in the attachment each item responds. Please also state in the cover letter(s) whether you believe you have met your obligations under the document request by searching carefully and thoroughly for everything called for by the request, and sending it all to us. Correspondence should reference case number, case name and requesting SEC staff member.

Please also provide a narrative description describing what was done to identify and collect documents responsive to the request. At a minimum, the narrative should describe:

- who searched for documents;
- who reviewed documents found to determine whether they were responsive;
- which custodians were searched;
- what sources were searched (e.g., computer files, CDs, DVDs, thumb drives, flash drives, online storage media, hard copy files, diaries, datebooks, planners, filing cabinets, storage facilities, home offices, work offices, voice mails, home email, webmail, work email, backup tapes or other media);
- what search terms, if any, were employed to identify responsive documents;
- what firms and/or persons, if any, assisted in analyzing the data collected;
- what third parties, if any, were contacted to obtain responsive documents (e.g., phone companies for phone records, brokerage firms for brokerage records); and
- where the original electronic and hardcopy documents are maintained and by whom.

Also attached is a Business Records Declaration. Execution of this declaration may allow the Commission to introduce documents provided by you in any subsequent judicial proceeding, without requiring the testimony of your custodian of records should the documents be required at trial.

This investigation is a non-public, fact-finding inquiry. The investigation does not mean that we have concluded that you or anyone else has violated the law. Also, the investigation does not mean that we have a negative opinion of any person, entity, or security. Enclosed is a copy of the Commission's Form 1662 entitled "Supplemental Information for Persons Requested to Supply Information Voluntarily or Directed to Supply Information Pursuant to a Commission Subpoena." Form 1662 explains how we may use the information you provide to the Commission and has other important information for you.

Thank you in advance for your anticipated cooperation. If you have any questions or would like to discuss this matter, you may contact me at (b)(6); bsec.gov.

Sincerely,
(b)(6); (b)(7)(C)
<u>Division of Enforcement</u>
(b)(6); (b)(7)(C)

Enclosures: Attachment A

SEC Data Delivery Standards SEC Form 1662

Business Records Certification

ATTACHMENT FOR NETHERMIND

C-08950

March 4, 2024

Definitions

As used in this Document request, the words and phrases listed below shall have the following meanings:

- 1. "Relevant Period" means July 1, 2018 to the present.
- 2. "Nethermind" means the entity doing business under the name Demerzel Solutions Limited, parents, subsidiaries, affiliates, predecessors, successors, officers, directors, employees, agents, general partners, limited partners, partnerships and aliases, code names, or trade or business names used by any of the foregoing.
- 3. The "Ethereum Foundation" means the entity or business doing business under the name Ethereum Foundation, including, but not limited to, ethereum.org, the Ethereum Support Program, and parents, subsidiaries, affiliates, predecessors, successors, officers, directors, employees, agents, general partners, limited partners, partnerships and aliases, owners, code names, or trade or business names used by any of the foregoing.
- "The Merge" or "Ethereum 2.0" means the transition by the Ethereum blockchain of its 4. consensus mechanism from proof-of-work to proof-of-stake.
- 5. "Beacon Chain" means the original proof-of-stake blockchain that was launched in 2020 that ran alongside the original proof-of-work Ethereum blockchain.
- 6. "Document" shall include, but is not limited to, any written, printed, or typed matter including, but not limited to all drafts and copies bearing notations or marks not found in the original, letters and correspondence, interoffice communications, slips, tickets, records, worksheets, financial records, accounting documents, bookkeeping documents, memoranda, reports, manuals, telephone logs, facsimiles, messages of any type, telephone messages, text messages, voice mails, tape recordings, notices, instructions, minutes, summaries, notes of meetings, file folder markings, and any other organizational indicia, purchase orders, information recorded by photographic process, including microfilm and microfiche, computer printouts, spreadsheets, and other electronically stored information, including writings, drawings, graphs, charts, photographs, sound recordings, images, and other data or data compilations that are stored in any medium from which information can be retrieved, obtained, manipulated, or translated.
- "Communication" means any correspondence, contact, discussion, e-mail, instant 7. message, or any other kind of oral or written exchange or transmission of information (in the form of facts, ideas, inquiries, or otherwise), including but not limited to those made on Social Media Services, and any response thereto between two or more Persons or

entities, including, without limitation, all telephone conversations, face-to-face meetings or conversations, internal or external discussions, or exchanges of a Document or Documents.

- 8. "Concerning" means directly or indirectly, in whole or in part, describing, constituting, evidencing, recording, evaluating, substantiating, concerning, referring to, alluding to, in connection with, commenting on, relating to, regarding, discussing, showing, analyzing or reflecting.
- 9. "Agreement" means any actual or contemplated (i) written or oral Agreement; (ii) term or provision of such Agreement; or (iii) amendment of any nature or termination of such Agreement. A request for any Agreement among or between specified parties includes a request for all Documents Concerning (i) any actual or contemplated Agreement among or between such parties, whether or not such Agreement included any other Person; (ii) the drafting or negotiation of any such Agreement; (iii) any actual or contemplated demand, request or application for any such Agreement, and any response thereto; and (iv) any actual or contemplated objection or refusal to enter into any such Agreement, and any response thereto.
- 10. "Bank or Financial Account" means the domestic or foreign bank, brokerage, or financial accounts held, controlled, or used by you or by other people on your behalf. This includes, but is not limited to, accounts that contain currency, securities, or crypto assets.
- 11. "Person" means a natural person, firm, association, organization, partnership, business, trust, corporation, bank or any other private or public entity.
- 12. The term "you" and "your" means the Person to whom or entity to which this Document request was issued.
- 13. To the extent necessary to bring within the scope of this Document request any information or Documents that might otherwise be construed to be outside its scope:
 - a. the word "or" means "and/or";
 - b. the word "and" means "and/or";
 - c. the functional words "each," "every" "any" and "all" shall each be deemed to include each of the other functional words;
 - d. the masculine gender includes the female gender and the female gender includes the masculine gender; and
 - e. the singular includes the plural and the plural includes the singular.

Instructions

1. Unless otherwise specified, the Document request calls for production of the original Documents and all copies and drafts of same. Documents responsive to this request may be in electronic or paper form. Electronic Documents such as email should be produced in accordance with the attached document entitled SEC Data Delivery Standards. All

- electronic Documents responsive to the Document request, including all metadata, should also be produced in their native software format.
- 2. For Documents in paper format, you may send the originals, or, if you prefer, you may send copies of the originals. The Commission cannot reimburse you for the copying costs. If you are sending copies, the staff requests that you scan (rather than photocopy) hard copy Documents and produce them in an electronic format consistent with the SEC Data Delivery Standards. Alternatively, you may send us photocopies of the Documents in paper format. If you choose to send copies, you <u>must</u> secure and retain the originals and store them in a safe place. The staff may later request or require that you produce the originals.
- 3. Whether you scan or photocopy Documents, the copies must be identical to the originals, including even faint marks or print. Also, please note that if copies of a Document differ in any way, they are considered separate Documents and you must send each one. For example, if you have two copies of the same letter, but only one of them has handwritten notes on it, you must send both the clean copy and the one with notes.
- 4. In producing a photocopy of an original Document that contains post-it(s), notation flag(s), or other removable markings or attachments which may conceal all or a portion of the markings contained in the original Document, photocopies of the original Document both with and without the relevant post-it(s), notation flag(s), or removable markings or attachments should be produced.
- 5. Documents should be produced as they are kept in the ordinary course of business or be organized and labeled to correspond with the categories in this request. In that regard, Documents should be produced in a unitized manner, *i.e.*, delineated with staples or paper clips to identify the Document boundaries.
- 6. Documents should be labeled with sequential numbering (bates-stamped).
- 7. The scope of any given request should not be limited or narrowed based on the fact that it calls for Documents that are responsive to another request.
- 8. You are not required to produce exact duplicates of any Documents that have been previously produced to the Securities and Exchange Commission staff in connection with this matter. If you are not producing Documents based upon a prior production, please identify the responsive Documents that were previously produced.
- 9. This request covers all Documents in or subject to your possession, custody or control, including all Documents that are not in your immediate possession but that you have the effective ability to obtain, that are responsive, in whole or in part, to any of the individual requests set forth below. If, for any reason including a claim of attorney-client privilege you do not produce something called for by the request, you should submit a list of what you are not producing. The list should be produced as an Excel file and describe each item separately, noting:

- its author(s); a.
- its date: b.
- c. its subject matter;
- the name of the Person who has the item now, or the last Person known to d. have it;
- the names of everyone who ever had the item or a copy of it, and the e. names of everyone who was told the item's contents;
- the basis upon which you are not producing the responsive Document;
- the specific request in the request to which the Document relates; g.
- the attorney(s) and the client(s) involved; and h.
- in the case of the work product doctrine, the litigation for which the i. Document was prepared in anticipation.
- If Documents responsive to this request no longer exist because they have been lost, 10. discarded, or otherwise destroyed, you should identify such Documents and give the date on which they were lost, discarded or destroyed.

Documents to be Produced

- 1. All Agreements between Nethermind and the Ethereum Foundation;
- 2. All Documents and Communications Concerning any grant or other source of funding received from the Ethereum Foundation;
- 3. All Documents and Communications Concerning any work conducted by Nethermind pursuant to any grant or other source of funding received from the Ethereum Foundation;
- 4. Documents sufficient to identify Nethermind crypto asset wallet addresses or Bank or Financial Accounts, located within or outside the U.S., that received any grant or other source of funding from the Ethereum Foundation, as well as the amount of crypto assets or fiat received;
- 5. Documents sufficient to identify all meetings with the Ethereum Foundation, including any Documents related to the meetings identified;
- 6. All Communications with the Ethereum Foundation, including, but not limited to, Communications with board members, consultants, officers, directors, employees, developers, coders, and others performing work on behalf of these entities, related to The Merge or the Beacon Chain.

DECLARATION OF [Insert Name] CERTIFYING RECORDS OF REGULARLY CONDUCTED BUSINESS ACTIVITY

I, the undersigned, [insert name], pursuant to 28 U.S.C. § 1746, declare that:

- 1. I am employed by Demerzel Solutions Limited as [insert position] and by reason of my position am authorized and qualified to make this declaration. [if possible supply additional information as to how person is qualified to make declaration, e.g., I am custodian of records, I am familiar with the company's recordkeeping practices or systems, etc.]
- 2. I further certify that the documents [attached hereto or submitted herewith] and stamped [insert bates range] are true copies of records that were:
 - (a) made at or near the time of the occurrence of the matters set forth therein, by, or from information transmitted by, a person with knowledge of those matters;
 - (b) kept in the course of regularly conducted business activity; and
 - (c) made by the regularly conducted business activity as a regular practice.

I declare under penalty of perjury that the foregoing is true and correct. Executed on [date].

[Name]	



U.S. Securities and Exchange Commission

Data Delivery Standards

This document describes the technical requirements for paper and electronic document productions to the U.S. Securities and Exchange Commission (SEC). **Any questions or proposed file formats other than those described below must be discussed with the legal and technical staff of the SEC Division of Enforcement prior to submission. **

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	4. Text	
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General Instructions

General Instructions

The current mailing address for all physical productions sent to the SEC is:

ENF-CPU (U.S. Securities & Exchange Commission), 14420 Albemarle Point Place, Suite 102, Chantilly, VA 20151-1750

Electronic files must be produced in their native format, i.e. the format in which they are ordinarily used and maintained during the normal course of business. For example, an MS Excel file must be produced as an MS Excel file rather than an image of a spreadsheet. (Note: An Adobe PDF file is not considered a native file unless the document was initially created as a PDF.)

In the event produced files require the use of proprietary software not commonly found in the workplace, the SEC will explore other format options with the producing party.

The proposed use of file de-duplication methodologies or computer-assisted review or technology-assisted review (TAR) during the processing of documents must be discussed with and approved by the legal and technical staff of the Division of Enforcement (ENF). If your production will be de-duplicated it is vital that you 1) preserve any unique metadata associated with the duplicate files, for example, custodian name and file location and, 2) make that unique metadata part of your production to the SEC.

General requirements for ALL document productions are:

- 1. A cover letter must be included with each production and should include the following information:
 - Case number, case name and requesting SEC staff member name
 - b. A list of each piece of media included in the production with its unique production volume number
 - c. A list of custodians, identifying the Bates range for each custodian
 - d. A list of redacted documents and the redaction reason
 - c. The time zone in which the emails were standardized during conversion
 - f. Whether the production contains native files produced from Mac operating system environments
- Data can be produced on CD, DVD, thumb drive, etc., using the media requiring the least number of deliverables and labeled with the following:
 - a. Case number
 - b. Production date
 - c. Producing party
 - d. Bates range (if applicable)
- All submissions must be organized by custodian unless otherwise instructed.
- All document family groups, i.e. email attachments, embedded files, etc., should be produced together and children files should follow parent files sequentially in the Bates numbering.
- All load-ready collections should include only one data load file and one image pointer file.
- All load-ready text must be produced as separate document-level text files.
- All load-ready collections should account for custodians in the custodian field.
- 8. All load-ready collections must provide the extracted contents of any container files to ensure all relevant files are produced as separate records.
- Audio files should be separated from data files if both are included in the production.
- 10. Only alphanumeric characters and the underscore character are permitted in file names and folder names. Special characters are not permitted.
- 11. All electronic productions submitted on media must be produced using industry standard self-extracting encryption software.
- 12. The SEC uses 7zip to access compressed files. Note that the SEC cannot accept files that use AES-256 Jpeg or pkAES-256-Cert Deflate compression methods, even if the files are created with 7zip. If you have any questions or need additional information, please reach out to the requesting SEC staff member.
- 13. Electronic productions of 30 GB or less are strongly encouraged to be submitted via Secure File Transfer. All Secure File Transfers should be sent to the SEC Centralized Production Unit (ENF-CPU@sec.gov) with a CC to the requesting SEC staff member. If you do not have your own Secure File Transfer application, you may reach out to the requesting SEC staff member for a link to the SEC system in order to upload your production. If using the SEC Secure File Transfer system, you will NOT be able to CC individuals outside the SEC on your upload transmission. Note that the SEC cannot accept productions made using file sharing sites such as Google Drive or Microsoft Office 365.
- 14. Productions containing BSA or SAR material must be encrypted. Secure File Transfer applications may be used to produce BSA or SAR material. BSA or SAR material should be segregated and appropriately marked as BSA or SAR, or should be produced separately from other case related records.
- 15. Passwords for electronic documents, files, compressed archives and encrypted media must be provided separately either via email or in a cover letter apart from the media.
- 16. All electronic productions should be produced free of computer viruses.
- 17. Before producing forensically collected images, parties should reach out to the requesting SEC staff member in order to discuss appropriate handling.
- 18. Before producing unique data sets (large sets of relational data, website reconstruction, chat room data, etc.), parties should reach out to the requesting SEC staff member in order to discuss an appropriate production format.
- Additional technical descriptions can be found in the addendum to this document.

Please note that productions sent to the SEC via United States Postal Service are subject to Mail Irradiation, and as a result electronic productions may be damaged.

Delivery Formats

Imaged Productions

The SEC prefers that all scanned paper and electronic file collections be produced in a structured format including industry standard load files, Bates numbered image files, native files and searchable document-level text files. Bates numbers should not contain spaces. Hyphens (-) and underscores (-) are acceptable.

1. Images

- Black and white images must be 300 DPI Group IV single-page TIFF files
- b. Color images must be produced in JPEG format
- File names cannot contain embedded spaces or special characters (including the comma)
- d. Folder names cannot contain embedded spaces or special characters (including the comma)
- e. All image files must have a unique file name, i.e. Bates number
- f. Images must be endorsed with sequential Bates numbers in the lower right corner of each image
- The number of image files per folder should not exceed 2,000 files g.
- h. Excel spreadsheets should have a placeholder image named by the Bates number of the file
- AUTOCAD/photograph files should be produced as a single page JPEG file

2. Image Cross-Reference File

The image cross-reference file (LOG or .OPT) links the images to the database records. It should be a comma-delimited file consisting of seven fields per line with a line in the cross-reference file for every image in the database with the following format:

ImageID, VolumeLabel, ImageFilePath, DocumentBreak, FolderBreak, BoxBreak, PageCount

3. Data File

The data file (.DAT) contains all of the fielded information that will be loaded into the database.

- The first line of the .DAT file must be a header row identifying the field names
- The .DAT file must use the following *Concordance*® default delimiters:

Comma ¶ ASCII character (020)

Quote b ASCII character (254)

- c. If the .DAT file is produced in Unicode format it must contain the byte order marker
- d. Date fields should be provided in the format: mm/dd/yyyy
- Date and time fields must be two separate fields
- The time zone must be included in all time fields f.
- If the production includes imaged emails and attachments, the attachment fields must be included to preserve the parent/child relationship between an email and its attachments
- An OCRPATH field must be included to provide the file path and name of the extracted text file on the produced storage media. The text file must be named after the FIRSTBATES. Do not include the text in the .DAT file.
- For productions with native files, a LINK field must be included to provide the file path and name of the native file on the produced storage media. The native file must be named after the FIRSTBATES.
- BEGATTACH and ENDATTACH fields must be two separate fields
- A complete list of metadata fields is available in Addendum A to this document

4. Text

Text must be produced as separate document-level text files, not as fields within the .DAT file. The text files must be named per the FIRSTBATES/Image Key and the full path to the text file (OCRPATII) should be included in the .DAT file. Text files may be in either ANSI or Unicode format, however, ALL text files must be in the same format within the same production. Note that productions containing text with foreign characters must produce text files in Unicode format to preserve the foreign characters. Text files must be in a separate folder, and the number of text files per folder should not exceed 2,000 files. There should be no special characters (including commas) in the folder names. For redacted documents, provide the full text for the redacted version.

Linked Native Files

Copies of original email and native file documents/attachments must be included for all electronic productions.

- a. Native file documents must be named per the FIRSTBATES number
- b. The full path of the native file must be provided in the .DAT file for the LINK field
- The number of native files per folder should not exceed 2,000 files

II. Native File Production without Load Files

With prior approval, native files may be produced without load files. Native file productions should not be Bates numbered. Native files must be produced as they are maintained in the normal course of business and organized by custodian-named file folders. Native email files (.PST or .MBOX) must be separated by custodian.

III. Adobe PDF File Production

With prior approval, Adobe PDF files may be produced in native file format.

- 1. All PDFs must be unitized at the document level, i.e. each PDF must represent a discrete document.
- 2. PDF files should be produced in separate folders named by the custodian. The folders should not contain any special characters (including commas).
- 3. All PDF files must contain embedded text that includes all discernible words within the document, not selected text or image only. This requires all layers of the PDF to be flattened first.
- 4. If PDF files are Bates endorsed, the PDF files must be named by the Bates range.

IV. Audio Files

Audio files from telephone recording systems must be produced in a format that is playable using Microsoft Windows Media PlayerTM. Additionally, the call information (metadata) related to each audio recording MUST be provided. The metadata file must be produced in a delimited text format. Field names must be included in the first row of the text file. The metadata must include, at a minimum, the following fields:

1) Caller Name: Caller's name or account/identification number

2) Originating Number: Caller's phone number3) Called Party Name: Called party's name

4) Terminating Number: Called party's phone number

5) Date: Date of call
6) Time: Time of call

7) Filename: Filename of audio file

V. Video Files

Video files must be produced in a format that is playable using Microsoft Windows Media PlayerTM.

VI. Electronic Trade and Bank Records

When producing electronic trade records, bank records, or financial statements, provide the files in one of the following formats:

- 1. MS Excel spreadsheet with header information detailing the field structure. If any special codes exist in the dataset, a separate document must be provided that details all such codes. If details of the field structure do not fit in the header, a separate document must be provided that includes such details.
- 2. Delimited text file with header information detailing the field structure. The preferred delimiter is a vertical bar "|". If any special codes exist in the dataset, a separate document must be provided that details all such codes. If details of the field structure do not fit in the header, a separate document must be provided that includes such details.

VII. Electronic Phone Records

When producing an MS Excel spreadsheet for electronic phone records, provide the files in the following format:

- 1. MS Excel spreadsheet with header information detailing the field structure. If any special codes exist in the dataset, a separate document must be provided that details all such codes. If details of the field structure do not fit in the header, a separate document must be provided that includes such details. Data must be formatted in its native format (i.e. dates in a date format, numbers in an appropriate numerical format, and numbers with leading zeroes as text).
 - a. The metadata that must be included is outlined in **Addendum B** of this document. Each field of data must be loaded into a separate column. For example, Date and Start_Time must be produced in separate columns and not combined into a single column containing both pieces of information. Any fields of data that are provided in addition to those listed in **Addendum B** must also be loaded into separate columns.

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Data Delivery Standards

VIII. Audit Workpapers

The SEC prefers for workpapers to be produced in two formats: (1) With Bates numbers in accordance with the SEC Data Delivery Standards; and (2) in native format via laptop computer, web-based viewing platform, or otherwise, allowing for viewing in the same format and organization as the firm's audit team. Prior to production of workpapers via laptop computer or web-based viewing platform, audit firms should contact the requesting SEC staff member for additional information and written agreements addressing use of software, access, and viewing protocols.

IX. Mobile Device Data

Before producing any mobile device data (including but not limited to text messages and application data) parties should reach out to the requesting SEC staff member in order to discuss the appropriate production format. Productions containing chat data from applications must be identified at the time of production and the following information must be provided to the requesting SEC staff member and the SEC Centralized Production Unit: chat application, chat data format, and how the length of a chat is determined (i.e. set duration of time, number of minutes without messages, etc.)

ADDENDUM A

The metadata of electronic document collections should be extracted and provided in a .DAT file using the field definition and formatting described below:

Field Name Sample Data Description FIRSTBATES EDC0000001 First Bates number of native file documents. LASTBATES EDC0000001 Last Bates number of native file documents.	
	ent/email
	ent/email
**The LASTBATES field should be po	opulated
for single page documents/emails.	
ATTACHRANGE EDC0000001 - EDC0000015 Bates number of the first page of	f the parent
document to the Bates number of the la	ast page of the
last attachment "child" document	
BEGATTACH EDC0000001 First Bates number of attachment range	
ENDATTACH EDC0000015 Last Bates number of attachment range	
PARENT_BATES EDC0000001 First Bates number of parent document/	
**This PARENT_BATES field should	
in each record representing an attack	hment "child"
document	
CHILD_BATES EDC0000002; EDC0000014 First Bates number of "child" attachmo	
more than one Bates number listed dep	pending on the
number of attachments	, , , , ,
**The CHILD_BATES field should be	
cach record representing a "parent" de	
CUSTODIAN Smith, John Email: Mailbox where the email reside	
Native: Name of the individual or de	pariment from
whose files the document originated	
FROM John Smith Email: Sender	
Native: Author(s) of document	
**semi-colon should be used to separat	te multiple
TO Coffman, Janice: LeeW Recipient(s)	
	4
[mailto:LeeW@MSN.com] **semi-colon should be used to separate entries	te multiple
CC Frank Thompson [mailto: Carbon copy recipient(s)	
frank_Thompson@cdt.com] **semi-colon should be used to separate	to multiple
entries	ic munipic
BCC John Cain Blind carbon copy recipient(s)	
**semi-colon should be used to separat	te multiple
entries	te manapie
SUBJECT Board Meeting Minutes Email: Subject line of the email	
Native: Title of document (if available)	
FILE_NAME BoardMeetingMinutes.docx Native: Name of the original native	file, including
extension	
DATE_SENT 10/12/2010 Email: Date the email was sent	
Native: (empty)	
TIME SENT/TIME 07:05 PM GMT Email: Time the email was sent/ Time	zone in which
ZONE the emails were standardized during co	
Native: (empty)	
**This data must be a separate field and	d cannot be
combined with the DATE_SENT field	
TIME_ZONE GMT The time zone in which the emails wer	re standardized
during conversion.	
Email: Time zone	
Native: (empty)	

LINK	D:\001\EDC0000001.msg	Hyperlink to the email or native file document **The linked file must be named per the FIRSTBATES number
MIME_TYPE	application/msword	The content type of an email or native file document as identified/extracted from the header
FILE_EXTEN	MSG	The file type extension representing the email or native file document; will vary depending on the format
AUTHOR	John Smith	Email: (empty) Native: Author of the document
LAST_AUTHOR	Jane Doe	Email: (empty) Native: Last Author of the document
DATE_CREATED	10/10/2010	Email: (empty) Native: Date the document was created
TIME_CREATED/T IME_ZONE	10:25 AM GMT	Email: (empty) Native: Time the document was created including time zone **This data must be a separate field and cannot be combined with the DATE_CREATED field
DATE_MOD	10/12/2010	Email: (empty) Native: Date the document was last modified
TIME_MOD/TIME_ ZONE	07:00 PM GMT	Email: (empty) Native: Time the document was last modified including the time zone **This data must be a separate field and cannot be combined with the DATE_MOD field
DATE_ACCESSD	10/12/2010	Email: (empty) Native: Date the document was last accessed
TIME_ACCESSD/T IME_ZONE	07:00 PM GMT	Email: (empty) Native: Time the document was last accessed including the time zone **This data must be a separate field and cannot be combined with the DATE_ACCESSD field
PRINTED_DATE	10/12/2010	Email: (empty) Native: Date the document was last printed
FILE_SIZE	5,952	Size of native file document/email in KB
PGCOUNT	1	Number of pages in native file document/email
PATH	J:\Shared\SmithJ\October Agenda.doc	Email: (empty) Native: Path where native file document was stored including original file name.
INTFILEPATH	Personal Folders\Deleted Items\Board Meeting Minutes.msg	Email: original location of email including original file name. Native: (empty)
INTMSGID	<000805c2c71bS75977050Scb 8306d1@MSN>	Email: Unique Message ID Native: (empty)

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HEADER	Return-Path: <example_from@dc.edu> X-SpamCatcher-Score:1[X] Received:from[136.167.40.119] (HELO dc.edu) by fe3.dc.edu (CommuniGate Pro SMTP4.1.8) with ESMTP-TLS id 61258719 for example_to@mail.dc.edu; Mon, 23 Aug 2004 11:40:10 - 0400 Message-ID: <<4129F3CA.2020509@dc.edu> Date: Mon, 23 Aug 2005 11:40:36 -400 From: Taylor Evans <example_from@dc.edu> User-Agent:Mozilla/5.0 (Windows;U; Windows NT 5.1: en-US;rv:1.0.1) Gecko/20020823 Netscape/7.0 X-Accept-Language:en-us,en MIME-Version:1.0 To: Jon Smith <example_to@mail.dc.edu> Subject:Business Development Meeting Content-Type: text/plain;charset=us-ascii; format=flowed Content-Transfer-Encoding:7bit</example_to@mail.dc.edu></example_from@dc.edu></example_from@dc.edu>	
SHA256	AD6128C5CA40164AF71A1E FC800E12D2F195CE07BB5F8 C813B0888A2DDE6A06F	SHA-256 hash value of the document.
OCRPATH	TEXT/001/EDC0000001.txt	Path to extracted text of the native file

Sample Image Cross-Reference File:

IMG0000001,,E:\001\IMG0000001.TIF,Y,,,
IMG0000002,,E:\001\IMG0000002.TIF,,,,
IMG0000003,,E:\001\IMG0000004.TIF,Y,,,
IMG0000004,,E:\001\IMG0000005.TIF,Y,,,
IMG0000005,,E:\001\IMG0000005.TIF,Y,,,
IMG0000006,,E:\001\IMG0000006.TIF,,,,,

ADDENDUM B

For Electronic Phone Records, include the following fields in separate columns:

For Calls:

- 1) Account Number
- 2) Connection Date Date the call was received or made
- 3) Connection Time Time call was received or made
- 4) Seizure Time Time it took for the call to be placed in seconds
- 5) Originating Number Phone that placed the call
- 6) Terminating Number Phone that received the call
- 7) Elapsed Time The length of time the call lasted, preferably in seconds
- 8) End Time The time the call ended
- 9) Number Dialed Actual number dialed
- 10) IMEI Originating Unique id to phone used to make call
- 11) IMEI Terminating-Unique id to phone used to receive call
- 12) IMSI Originating Unique id to phone used to make call
- 13) IMSI Terminating- Unique id to phone used to receive call
- 14) Call Codes Identify call direction or other routing information
- 15) Time Zone Time Zone in which the call was received or placed, if applicable

For Text messages:

- 1) Account Number
- 2) Connection Date Date the text was received or made
- 3) Connection Time Time text was received or made
- 4) Originating Number Who placed the text
- 5) Terminating Number Who received the text
- 6) IMEI Originating Unique id to phone used to make text
- 7) IMEI Terminating—Unique id to phone used to receive text
- 8) IMSI Originating Unique id to phone used to make text
- 9) IMSI Terminating- Unique id to phone used to receive text
- 10) Text Code Identify text direction, or other text routing information
- 11) Text Type Code Type of text message (sent SMS, MMS, or other)
- 12) Time Zone Time Zone in which the call was received or placed, if applicable

For Mobile Data Usage:

- 1) Account Number
- Connection Date Date the data was received or made
- 3) Connection Time Time data was received or made
- 4) Originating number Number that used data
- 5) IMEI Originating Unique id of phone that used data
- 6) IMSI Originating Unique id of phone that used data
- 7) Data or Data codes Identify data direction, or other data routing information
- 8) Time Zone Time Zone in which the call was received or placed, if applicable

SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549

Supplemental Information for Persons Requested to Supply Information Voluntarily or Directed to Supply Information Pursuant to a Commission Subpoena

A. False Statements and Documents

Section 1001 of Title 18 of the United States Code provides that fines and terms of imprisonment may be imposed upon:

[W]hoever, in any matter within the jurisdiction of the executive, legislative, or judicial branch of the Government of the United States, knowingly and willfully--

- (1) falsifies, conceals, or covers up by any trick, scheme, or device a material fact;
- (2) makes any materially false, fictitious, or fraudulent statement or representation; or
- (3) makes or uses any false writing or document knowing the same to contain any materially false, fictitious, or fraudulent statement or entry.

Section 1519 of Title 18 of the United States Code provides that fines and terms of imprisonment may be imposed upon:

Whoever knowingly alters, destroys, mutilates, conceals, covers up, falsifies, or makes a false entry in any record, document, or tangible object with the intent to impede, obstruct, or influence the investigation or proper administration of any matter within the jurisdiction of any department or agency of the United States . . ., or in relation to or contemplation of any such matter.

B. Testimony

If your testimony is taken, you should be aware of the following:

- 1. Record. Your testimony will be transcribed by a reporter. If you desire to go off the record, please indicate this to the Commission employee taking your testimony, who will determine whether to grant your request. The reporter will not go off the record at your, or your counsel's, direction.
- 2. Counsel. You have the right to be accompanied, represented and advised by counsel of your choice. Your counsel may advise you before, during and after your testimony; question you briefly at the conclusion of your testimony to clarify any of the answers you give during testimony; and make summary notes during your testimony solely for your use. If you are accompanied by counsel, you may consult privately.

If you are not accompanied by counsel, please advise the Commission employee taking your testimony if, during the testimony, you desire to be accompanied, represented and advised by counsel. Your testimony will be adjourned once to afford you the opportunity to arrange to be so accompanied, represented or advised.

You may be represented by counsel who also represents other persons involved in the Commission's investigation. This multiple representation, however, presents a potential conflict of interest if one client's interests are or may be adverse to another's. If you are represented by counsel who also represents other persons involved in the investigation, the Commission will assume that you and counsel have discussed and resolved all issues concerning possible conflicts of interest. The choice of counsel, and the responsibility for that choice, is yours.

3. Transcript Availability. Rule 6 of the Commission's Rules Relating to Investigations, 17 CFR 203.6, states:

A person who has submitted documentary evidence or testimony in a formal investigative proceeding shall be entitled, upon written request, to procure a copy of his documentary evidence or a transcript of his testimony on payment of the appropriate fees: *Provided, however*, That in a nonpublic formal investigative proceeding the Commission may for good cause deny such request. In any event, any witness, upon proper identification, shall have the right to inspect the official transcript of the witness' own testimony.

If you wish to purchase a copy of the transcript of your testimony, the reporter will provide you with a copy of the appropriate form. Persons requested to supply information voluntarily will be allowed the rights provided by this rule.

4. *Perjury.* Section 1621 of Title 18 of the United States Code provides that fines and terms of imprisonment may be imposed upon:

Whoever--

(1) having taken an oath before a competent tribunal, officer, or person, in any case in which a law of the United States authorizes an oath to be administered, that he will testify, declare,

depose, or certify truly, or that any written testimony, declaration, deposition, or certificate by him subscribed, is true, willfully and contrary to such oath states or subscribes any material matter which he does not believe to be true; or

- (2) in any declaration, certificate, verification, or statement under penalty of perjury as permitted under section 1746 of title 28, United States Code, willfully subscribes as true any material matter which he does not believe to be true.
- 5. Fifth Amendment and Voluntary Testimony. Information you give may be used against you in any federal, state, local or foreign administrative, civil or criminal proceeding brought by the Commission or any other agency.

You may refuse, in accordance with the rights guaranteed to you by the Fifth Amendment to the Constitution of the United States, to give any information that may tend to incriminate you.

If your testimony is not pursuant to subpoena, your appearance to testify is voluntary, you need not answer any question, and you may leave whenever you wish. Your cooperation is, however, appreciated.

6. Formal Order Availability. If the Commission has issued a formal order of investigation, it will be shown to you during your testimony, at your request. If you desire a copy of the formal order, please make your request in writing.

C. Submissions and Settlements

Rule 5(c) of the Commission's Rules on Informal and Other Procedures, 17 CFR 202,5(c), states:

Persons who become involved in . . . investigations may, on their own initiative, submit a written statement to the Commission setting forth their interests and position in regard to the subject matter of the investigation. Upon request, the staff, in its discretion, may advise such persons of the general nature of the investigation, including the indicated violations as they pertain to them, and the amount of time that may be available for preparing and submitting a statement prior to the presentation of a staff recommendation to the Commission for the commencement of an administrative or injunction proceeding. Submissions by interested persons should be forwarded to the appropriate Division Director or Regional Director with a copy to the staff members conducting the investigation and should be clearly referenced to the specific investigation to which they relate. In the event a recommendation for the commencement of an enforcement proceeding is presented by the staff, any submissions by interested persons will be forwarded to the Commission in conjunction with the staff memorandum.

The staff of the Commission routinely seeks to introduce submissions made pursuant to Rule 5(c) as evidence in Commission enforcement proceedings, when the staff deems appropriate.

Rule 5(f) of the Commission's Rules on Informal and Other Procedures, 17 CFR 202.5(f), states:

In the course of the Commission's investigations, civil lawsuits, and administrative proceedings, the staff, with appropriate authorization, may discuss with persons involved the disposition of such matters by consent, by settlement, or in some other manner. It is the policy of the Commission, however, that the disposition of any such matter may not, expressly or impliedly, extend to any criminal charges that have been, or may be, brought against any such person or any recommendation with respect thereto. Accordingly, any person involved in an enforcement matter before the Commission who consents, or agrees to consent, to any judgment or order does so solely for the purpose of resolving the claims against him in that investigative, civil, or administrative matter and not for the purpose of resolving any criminal charges that have been, or might be, brought against him. This policy reflects the fact that neither the Commission nor its staff has the authority or responsibility for instituting, conducting, settling, or otherwise disposing of criminal proceedings. That authority and responsibility are vested in the Attorney General and representatives of the Department of Justice.

D. Freedom of Information Act

The Freedom of Information Act, 5 U.S.C. 552 (the "FOIA"), generally provides for disclosure of information to the public. Rule 83 of the Commission's Rules on Information and Requests, 17 CFR 200.83, provides a procedure by which a person can make a written request that information submitted to the Commission not be disclosed under the FOIA. That rule states that no determination as to the validity of such a request will be made until a request for disclosure of the information under the FOIA is received. Accordingly, no response to a request that information not be disclosed under the FOIA is necessary or will be given until a request for disclosure under the FOIA is received. If you desire an acknowledgment of receipt of your written request that information not be disclosed under the FOIA, please provide a duplicate request, together with a stamped, self-addressed envelope.

E. Authority for Solicitation of Information

Persons Directed to Supply Information Pursuant to Subpoena. The authority for requiring production of information is set forth in the subpoena. Disclosure of the information to the Commission is mandatory, subject to the valid assertion of any legal right or privilege you might have.

Persons Requested to Supply Information Voluntarily. One or more of the following provisions authorizes the Commission to solicit the information requested: Sections 19 and/or 20 of the Securities Act of 1933; Section 21 of the Securities Exchange Act of 1934; Section 321 of the Trust Indenture Act of 1939; Section 42 of the Investment Company Act of 1940; Section 209 of the Investment Advisers Act of 1940; and 17 CFR 202.5. Disclosure of the requested information to the Commission is voluntary on your part.

F. Effect of Not Supplying Information

Persons Directed to Supply Information Pursuant to Subpoena. If you fail to comply with the subpoena, the Commission may seek a court order requiring you to do so. If such an order is obtained and you thereafter fail to supply the information, you may be subject to civil and/or criminal sanctions for contempt of court. In addition, Section 21(c) of the Securities Exchange Act of 1934, Section 42(c) of the Investment Company Act of 1940, and Section 209(c) of the Investment Advisers Act of 1940 provide that fines and terms of imprisonment may be imposed upon any person who shall, without just cause, fail or refuse to attend and testify or to answer any lawful inquiry, or to produce books, papers, correspondence, memoranda, and other records in compliance with the subpoena.

Persons Requested to Supply Information Voluntarily. There are no direct sanctions and thus no direct effects for failing to provide all or any part of the requested information.

G. Principal Uses of Information

The Commission's principal purpose in soliciting the information is to gather facts in order to determine whether any person has violated, is violating, or is about to violate any provision of the federal securities laws or rules for which the Commission has enforcement authority, such as rules of securities exchanges and the rules of the Municipal Securities Rulemaking Board. Facts developed may, however, constitute violations of other laws or rules. Information provided may be used in Commission and other agency enforcement proceedings. Unless the Commission or its staff explicitly agrees to the contrary in writing, you should not assume that the Commission or its staff acquiesces in, accedes to, or concurs or agrees with, any position, condition, request, reservation of right, understanding, or any other statement that purports, or may be deemed, to be or to reflect a limitation upon the Commission's receipt, use, disposition, transfer, or retention, in accordance with applicable law, of information provided.

H. Routine Uses of Information

The Commission often makes its files available to other governmental agencies, particularly United States Attorneys and state prosecutors. There is a likelihood that information supplied by you will be made available to such agencies where appropriate. Whether or not the Commission makes its files available to other governmental agencies is, in general, a confidential matter between the Commission and such other governmental agencies.

Set forth below is a list of the routine uses which may be made of the information furnished.

- 1. To appropriate agencies, entities, and persons when (1) the SEC suspects or has confirmed that there has been a breach of the system of records, (2) the SEC has determined that as a result of the suspected or confirmed breach there is a risk of harm to individuals, the SEC (including its information systems, programs, and operations), the Federal Government, or national security; and (3) the disclosure made to such agencies, entities, and persons is reasonably necessary to assist in connection with the SEC's efforts to respond to the suspected or confirmed breach or to prevent, minimize, or remedy such harm.
- 2. To other Federal, state, local, or foreign law enforcement agencies; securities self-regulatory organizations; and foreign financial regulatory authorities to assist in or coordinate regulatory or law enforcement activities with the SEC.
- 3. To national securities exchanges and national securities associations that are registered with the SEC, the Municipal Securities Rulemaking Board; the Securities Investor Protection Corporation; the Public Company Accounting Oversight Board; the Federal banking authorities, including, but not limited to, the Board of Governors of the Federal Reserve System, the Comptroller of the Currency, and the Federal Deposit Insurance Corporation; state securities regulatory agencies or organizations; or regulatory authorities of a foreign government in connection with their regulatory or enforcement responsibilities.
- 4. By SEC personnel for purposes of investigating possible violations of, or to conduct investigations authorized by, the Federal securities laws.
- 5. In any proceeding where the Federal securities laws are in issue or in which the Commission, or past or present members of its staff, is a party or otherwise involved in an official capacity.
- 6. In connection with proceedings by the Commission pursuant to Rule 102(e) of its Rules of Practice, 17 CFR 201.102(e).

- 7. To a bar association, state accountancy board, or other Federal, state, local, or foreign licensing or oversight authority; or professional association or self-regulatory authority to the extent that it performs similar functions (including the Public Company Accounting Oversight Board) for investigations or possible disciplinary action.
- 8. To a Federal, state, local, tribal, foreign, or international agency, if necessary to obtain information relevant to the SEC's decision concerning the hiring or retention of an employee; the issuance of a security clearance; the letting of a contract; or the issuance of a license, grant, or other benefit.
- 9. To a Federal, state, local, tribal, foreign, or international agency in response to its request for information concerning the hiring or retention of an employee; the issuance of a security clearance; the reporting of an investigation of an employee; the letting of a contract; or the issuance of a license, grant, or other benefit by the requesting agency, to the extent that the information is relevant and necessary to the requesting agency's decision on the matter.
- 10. To produce summary descriptive statistics and analytical studies, as a data source for management information, in support of the function for which the records are collected and maintained or for related personnel management functions or manpower studies; may also be used to respond to general requests for statistical information (without personal identification of individuals) under the Freedom of Information Act.
- 11. To any trustee, receiver, master, special counsel, or other individual or entity that is appointed by a court of competent jurisdiction, or as a result of an agreement between the parties in connection with litigation or administrative proceedings involving allegations of violations of the Federal securities laws (as defined in section 3(a)(47) of the Securities Exchange Act of 1934, 15 U.S.C. 78c(a)(47)) or pursuant to the Commission's Rules of Practice, 17 CFR 201.100 through 900 or the Commission's Rules of Fair Fund and Disgorgement Plans, 17 CFR 201.1100 through 1106, or otherwise, where such trustee, receiver, master, special counsel, or other individual or entity is specifically designated to perform particular functions with respect to, or as a result of, the pending action or proceeding or in connection with the administration and enforcement by the Commission of the Federal securities laws or the Commission's Rules of Practice or the Rules of Fair Fund and Disgorgement Plans.
- 12. To any persons during the course of any inquiry, examination, or investigation conducted by the SEC's staff, or in connection with civil litigation, if the staff has reason to believe that the person to whom the record is disclosed may have further information about the matters related therein, and those matters appeared to be relevant at the time to the subject matter of the inquiry.
- 13. To interns, grantees, experts, contractors, and others who have been engaged by the Commission to assist in the performance of a service related to this system of records and who need access to the records for the purpose of assisting the Commission in the efficient administration of its programs, including by performing clerical, stenographic, or data analysis functions, or by reproduction of records by electronic or other means. Recipients of these records shall be required to comply with the requirements of the Privacy Act of 1974, as amended, 5 U.S.C.
- 14. In reports published by the Commission pursuant to authority granted in the Federal securities laws (as such term is defined in section 3(a)(47) of the Securities Exchange Act of 1934, 15 U.S.C. 78c(a)(47)), which authority shall include, but not be limited to, section 21(a) of the Securities Exchange Act of 1934, 15 U.S.C. 78u(a)).
- 15. To members of advisory committees that are created by the Commission or by Congress to render advice and recommendations to the Commission or to Congress, to be used solely in connection with their official designated functions.
- 16. To any person who is or has agreed to be subject to the Commission's Rules of Conduct, 17 CFR 200.735-1 through 200.735-18, and who assists in the investigation by the Commission of possible violations of the Federal securities laws (as such term is defined in section 3(a)(47) of the Securities Exchange Act of 1934, 15 U.S.C. 78c(a)(47)), in the preparation or conduct of enforcement actions brought by the Commission for such violations, or otherwise in connection with the Commission's enforcement or regulatory functions under the Federal securities laws.
- 17. To a Congressional office from the record of an individual in response to an inquiry from the Congressional office made at the request of that individual.
- 18. To members of Congress, the press, and the public in response to inquiries relating to particular Registrants and their activities, and other matters under the Commission's jurisdiction.
- 19. To prepare and publish information relating to violations of the Federal securities laws as provided in 15 U.S.C. 78c(a)(47)), as amended.
- 20. To respond to subpoenas in any litigation or other proceeding.
- 21. To a trustee in bankruptcy.
- 22. To any governmental agency, governmental or private collection agent, consumer reporting agency or commercial reporting agency, governmental or private employer of a debtor, or any other person, for collection,

including collection by administrative offset, Federal salary offset, tax refund offset, or administrative wage garnishment, of amounts owed as a result of Commission civil or administrative proceedings.

23. To another Federal agency or Federal entity, when the SEC determines that information from this system of records is reasonably necessary to assist the recipient agency or entity in (1) responding to a suspected or confirmed breach or (2) preventing, minimizing, or remedying the risk of harm to individuals, the recipient agency or entity (including its information systems, programs, and operations), the Federal Government, or national security, resulting from a suspected or confirmed breach.

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Small Business Owners: The SEC always welcomes comments on how it can better assist small businesses. If you would like more information, or have questions or comments about federal securities regulations as they affect small businesses, please contact the Office of Small Business Policy, in the SEC's Division of Corporation Finance, at 202-551-3460. If you would prefer to comment to someone outside of the SEC, you can contact the Small Business Regulatory Enforcement Ombudsman at http://www.sba.gov/ombudsman or toll free at 888-REG-FAIR. The Ombudsman's office receives comments from small businesses and annually evaluates federal agency enforcement activities for their responsiveness to the special needs of small business.



UNITED STATES SECURITIES AND EXCHANGE COMMISSION

100 PEARL STREET, SUITE 20-100 NEW YORK, NY 10004-2616

DIVISION OF ENFORCEMENT

March 12, 2024

VIA UPS

(b)(6); (b)(7)(C)		

Re: C-08950

Dear (b)(6); (b)(7)(C)

The enclosed subpoena has been issued pursuant to a formal order entered by the United States Securities and Exchange Commission. Pursuant to Rule 8 of the United States Securities and Exchange Commission's Rules Relating to Investigations, 17 C.F.R. § 203.8, I have enclosed a subpoena for documents issued to you, in connection with the above-referenced investigation.

The enclosed subpoena requires you to produce documents to the SEC by March 26, 2024. Please deliver the materials to:

ENF-CPU U.S. Securities and Exchange Commission 14420 Albemarle Point Place, Suite 102 Chantilly, VA 20151-1750

For smaller electronic productions under 10MB in size, the materials may be emailed to the following email address: <u>ENF-CPU@sec.gov</u>.

Please also provide a duplicate copy of any document production cover letters to me at Esec.gov. Additionally, please include the SEC matter number and the name of the requesting attorney when responding.

Please carefully read the subpoena attachment, which contains, among other things, important instructions related to the manner of producing documents. In particular, if you prefer to send us copies of original documents, the staff requests that you scan and produce hard copy documents, as well as electronic documents, in an electronic format consistent with the SEC Data Delivery Standards attached hereto. All electronic documents responsive to

In your cover letter(s) accompanying the production of responsive documents, please enclose a list briefly describing each item you send. The list should identify the paragraph(s) in the subpoena attachment to which each item responds. Please also state in the cover letter(s) whether you believe you have met the obligations of the subpoena by searching carefully and thoroughly for everything called for by the subpoena, and sending it all to us.

A copy of the subpoena should be included with the documents that are produced. Correspondence should reference case number, case name and requesting SEC staff member.

Passwords for documents, files, compressed archives, and encrypted media should be provided separately either via email addressed to ENF-CPU@sec.gov, or in a separate cover letter mailed separately from the data. Password correspondence should reference case number, case name and requesting SEC staff member.

Please also provide a narrative description describing what was done to identify and collect documents responsive to the subpoena. At a minimum, the narrative should describe:

- who searched for documents;
- who reviewed documents found to determine whether they were responsive;
- which custodians were searched;
- what sources were searched (e.g., computer files, CDs, DVDs, thumb drives, flash drives, online storage media, hard copy files, diaries, datebooks, planners, filing cabinets, storage facilities, home offices, work offices, voice mails, home email, webmail, work email, backup tapes or other media);
- what search terms, if any, were employed to identify responsive documents;
- what firms and/or persons, if any, assisted in analyzing the data collected;
- what third parties, if any, were contacted to obtain responsive documents (e.g., phone companies for phone records, brokerage firms for brokerage records); and
- where the original electronic and hardcopy documents are maintained and by whom.

In addition, for any documents that qualify as records of regularly conducted activities under Federal Rule of Evidence 902(11), please complete a business records certification (a sample of which is enclosed) and return it with the document production. Execution of this certification may allow the Commission to introduce the documents provided by you in any subsequent judicial proceeding, without requiring your testimony.

Enclosed is a copy of the Commission's Form 1662, entitled "Supplemental Information for Persons Requested to Supply Information Voluntarily or Directed to Supply Information Pursuant to a Commission Subpoena." This form explains how we may use the information that you provide to the Commission and has other important information for you.

If you have any questions or would like to discuss this matter, you may contact me at (b)(6); (b)(7)(C)

Sincerely	′,
(b)(6); (b)(7)(C)
Division	of Enforcement
(b)(6); (b)(7)(C)
(b)(6); (h)(7)(C)	©sec.gov

Enclosures: Subpoena and Attachment

SEC Data Delivery Standards

SEC Form 1662

Business Records Certification



SUBPOENA

UNITED STATES OF AMERICA SECURITIES AND EXCHANGE COMMISSION

C-08950

To:	(b)(6); (b)(7)(C)
\boxtimes	YOU MUST PRODUCE everything specified in the Attachment to this subpoena to officers of the Securities and Exchange Commission, at the place, date and time specified below:
	ENF-CPU, U.S. Securities and Exchange Commission, 14420 Albemarle Point Place, Suite 102 Chantilly, VA 20151-1750, no later than March 26, 2024
	YOU MUST TESTIFY before officers of the Securities and Exchange Commission, at the place, date and time specified below:
	FEDERAL LAW REQUIRES YOU TO COMPLY WITH THIS SUBPOENA. If you do not comply with this subpoena, the SEC may bring an action in Federal Court to enforce this subpoena. Failure to comply with a court order enforcing this subpoena may result in the court imposing a fine, imprisonment, or both.
By:	U.S. Securities and Exchange Commission New York Regional Office 100 Pearl Street, Suite 20-100 New York, NY 10004-2616

I am an officer of the U.S. Securities and Exchange Commission authorized to issue subpoenas in this matter. The Securities and Exchange Commission has issued a formal order authorizing this investigation under Section 20(a) of the Securities Act of 1933.

NOTICE TO WITNESS: If you claim a witness fee or mileage, submit this subpoena with the claim voucher.

SUBPOENA ATTACHMENT FOR C-08950

March 12, 2024

Definitions

As used in this subpoena, the words and phrases listed below shall have the following meanings:

- 1. "Ethereum Cat Herders" or "ECH" means the group operating under the name "Ethereum Cat Herders", including parents, subsidiaries, affiliates, predecessors, successors, officers, directors, employees, agents, general partners, limited partners, partnerships and aliases, code names, or trade or business names used by any of the foregoing.
- 2. "Document" shall include, but is not limited to, any written, printed, or typed matter including, but not limited to all drafts and copies bearing notations or marks not found in the original, letters and correspondence, interoffice communications, slips, tickets, records, worksheets, financial records, accounting documents, bookkeeping documents, memoranda, reports, manuals, telephone logs, facsimiles, messages of any type, telephone messages, text messages, voice mails, tape recordings, notices, instructions, minutes, summaries, notes of meetings, file folder markings, and any other organizational indicia, purchase orders, information recorded by photographic process, including microfilm and microfiche, computer printouts, spreadsheets, and other electronically stored information, including but not limited to writings, drawings, graphs, charts, photographs, sound recordings, images, and other data or data compilations that are stored in any medium from which information can be retrieved, obtained, manipulated, or translated.
- 3. "Communication" means any correspondence, contact, discussion, e-mail, instant message, or any other kind of oral or written exchange or transmission of information (in the form of facts, ideas, inquiries, or otherwise) and any response thereto between two or more Persons or entities, including, without limitation, all telephone conversations, face-to-face meetings or conversations, internal or external discussions, or exchanges of a Document or Documents.
- 4. "Concerning" means directly or indirectly, in whole or in part, describing, constituting, evidencing, recording, evaluating, substantiating, concerning, referring to, alluding to, in connection with, commenting on, relating to, regarding, discussing, showing, describing, analyzing or reflecting.
- 5. An "Agreement" means any actual or contemplated (i) written or oral Agreement; (ii) term or provision of such Agreement; or (iii) amendment of any nature or termination of such Agreement. A request for any Agreement among or between specified parties includes a request for all Documents Concerning (i) any actual or contemplated Agreement among or between such parties, whether or not such Agreement included any other Person; (ii) the drafting or negotiation of any such Agreement; (iii) any actual or

- contemplated demand, request or application for any such Agreement, and any response thereto; and (iv) any actual or contemplated objection or refusal to enter into any such Agreement, and any response thereto.
- 6. The "Ethereum Foundation" means the entity or business doing business under the name Ethereum Foundation, including, but not limited to, ethereum.org, the Ethereum Support Program, and parents, subsidiaries, affiliates, predecessors, successors, officers, directors, employees, agents, general partners, limited partners, partnerships and aliases, owners, code names, or trade or business names used by any of the foregoing.
- 7. "EIP" means Ethereum Improvement Proposal.
- 8. "The Merge" or "Ethereum 2.0" means the transition by the Ethereum blockchain of its consensus mechanism from proof-of-work to proof-of-stake.
- 9. "Bank or Financial Account" means the domestic or foreign bank, brokerage, or financial accounts held, controlled, or used by you or by other people on your behalf. This includes, but is not limited to, accounts that contain currency, securities, or crypto assets.
- 10. The term "you" and "your" means the Person to whom or entity to which this subpoena was issued.
- 11. To the extent necessary to bring within the scope of this this subpoena any information or Documents that might otherwise be construed to be outside its scope:
 - a. the word "or" means "and/or";
 - b. the word "and" means "and/or";
 - c. the functional words "each," "every" "any" and "all" shall each be deemed to include each of the other functional words;
 - d. the masculine gender includes the female gender and the female gender includes the masculine gender; and
 - e. the singular includes the plural and the plural includes the singular.

Instructions

- 1. Unless otherwise specified, this subpoena calls for production of the original Documents and all copies and drafts of same. Documents responsive to this subpoena may be in electronic or paper form. Electronic Documents such as email should be produced in accordance with the attached Document entitled SEC Data Delivery Standards. All responsive electronic Documents, including all metadata, should also be produced in their native software format.
- 2. For Documents in paper format, you may send the originals, or, if you prefer, you may send copies of the originals. The Commission cannot reimburse you for the copying costs. If you are sending copies, the staff requests that you scan (rather than photocopy) hard copy Documents and produce them in an electronic format consistent with the SEC

- 3. Whether you scan or photocopy Documents, the copies must be identical to the originals, including even faint marks or print. Also, please note that if copies of a Document differ in any way, they are considered separate Documents and you must send each one. For example, if you have two copies of the same letter, but only one of them has handwritten notes on it, you must send both the clean copy and the one with notes.
- 4. In producing a photocopy of an original Document that contains post-it(s), notation flag(s), or other removable markings or attachments which may conceal all or a portion of the markings contained in the original Document, photocopies of the original Document both with and without the relevant post-it(s), notation flag(s), or removable markings or attachments should be produced.
- 5. Documents should be produced as they are kept in the ordinary course of business or be organized and labeled to correspond with the categories in this request. In that regard, Documents should be produced in a unitized manner, i.e., delineated with staples or paper clips to identify the Document boundaries.
- 6. Documents should be labeled with sequential numbering (bates-stamped).
- 7. You must produce all Documents created during, or Concerning, the time period **July 1**, **2018 to the present**, unless otherwise specified.
- 8. The scope of any given request should not be limited or narrowed based on the fact that it calls for Documents that are responsive to another request.
- 9. You are not required to produce exact duplicates of any Documents that have been previously produced to the Securities and Exchange Commission staff in connection with this matter. If you are not producing Documents based upon a prior production, please identify the responsive Documents that were previously produced.
- 10. For any Documents that qualify as records of regularly conducted activities under Federal Rule of Evidence 902(11), please complete a business records certification (a sample of which is enclosed) and return it with the Document production.
- 11. This subpoena covers all Documents in or subject to your possession, custody or control, including all Documents that are not in your immediate possession but that you have the effective ability to obtain, that are responsive, in whole or in part, to any of the individual requests set forth below. If, for any reason including a claim of attorney-client privilege you do not produce something called for by the request, you should submit a list of what you are not producing. The list should describe each item separately, noting:

- a. its author(s);
- b. its date;
- c. its subject matter;
- d. the name of the Person who has the item now, or the last Person known to have it;
- e. the names of everyone who ever had the item or a copy of it, and the names of everyone who was told the item's contents;
- f. the basis upon which you are not producing the responsive Document;
- g. the specific request in the subpoena to which the Document relates;
- h. the attorney(s) and the client(s) involved; and
- i. in the case of the work product doctrine, the litigation for which the Document was prepared in anticipation.
- 12. If Documents responsive to this subpoena no longer exist because they have been lost, discarded, or otherwise destroyed, you should identify such Documents and give the date on which they were lost, discarded or destroyed.

Documents to be Produced

- 1. Documents sufficient to identify former and current ECH members, and their titles, if any.
- 2. All Documents and Communications Concerning (a) The Merge; (b) EIP-1559; (c) EIP-2982; (d) EIP-3675; and (e) EIP-4895.
- 3. All Agreements between you or ECH, on the one hand, and the Ethereum Foundation, on the other hand.
- 4. Documents sufficient to identify any crypto asset wallet addresses or Bank or Financial Accounts belonging to You or ECH, that received any grant or other source of funding from the Ethereum Foundation, as well as the amount of crypto assets or fiat received.
- 5. Documents sufficient to identify all meetings with the Ethereum Foundation, including any Document related to the meetings identified.
- 6. All Documents and Communications Concerning any grant or other source of funding received from the Ethereum Foundation.
- 7. All Documents and Communications Concerning any work conducted by You or ECH pursuant to any grant or other source of funding received from the Ethereum Foundation.
- 8. All Communications with the Ethereum Foundation, including, but not limited to, Communications with board members, consultants, officers, directors, employees, developers, coders, and others performing work on behalf of these entities, related to The Merge.

DECLARATION OF [Insert Name] CERTIFYING RECORDS OF REGULARLY CONDUCTED BUSINESS ACTIVITY

I, the undersigned, [insert name], pursuant to 28 U.S.C. § 1746, declare that:

- 1. I am employed by [insert entity] as [insert position] and by reason of my position am authorized and qualified to make this declaration. [if possible supply additional information as to how person is qualified to make declaration, e.g., I am custodian of records, I am familiar with the company's recordkeeping practices or systems, etc.]
- 2. I further certify that the documents [attached hereto or submitted herewith] and stamped [insert bates range] are true copies of records that were:
 - (a) made at or near the time of the occurrence of the matters set forth therein, by, or from information transmitted by, a person with knowledge of those matters;
 - (b) kept in the course of regularly conducted business activity; and
 - (c) made by the regularly conducted business activity as a regular practice.

I declare under penalty of perjury that the foregoing is true and correct. Executed on [date].

[Name]	



U.S. Securities and Exchange Commission

Data Delivery Standards

This document describes the technical requirements for paper and electronic document productions to the U.S. Securities and Exchange Commission (SEC). **Any questions or proposed file formats other than those described below must be discussed with the legal and technical staff of the SEC Division of Enforcement prior to submission.**

General Instructions	1
Delivery Formats	2
I. Imaged Productions	3
1. Images	3
Image Cross-Reference File	
3. Data File	
4. Text	
5. Linked Native Files	
II. Native File Productions without Load Files	
III. Adobe PDF File Productions	
IV. Audio Files	
V. Video Files	
VI. Electronic Trade and Bank Records	
VII. Electronic Phone Records	
VIII. Audit Workpapers	
IX. Mobile Device Data	5

General Instructions

The current mailing address for all physical productions sent to the SEC is:

ENF-CPU (U.S. Securities & Exchange Commission), 14420 Albemarle Point Place, Suite 102, Chantilly, VA 20151-1750

Electronic files must be produced in their native format, i.e. the format in which they are ordinarily used and maintained during the normal course of business. For example, an MS Excel file must be produced as an MS Excel file rather than an image of a spreadsheet. (Note: An Adobe PDF file is not considered a native file unless the document was initially created as a PDF.)

In the event produced files require the use of proprietary software not commonly found in the workplace, the SEC will explore other format options with the producing party.

The proposed use of file de-duplication methodologies or computer-assisted review or technology-assisted review (TAR) during the processing of documents must be discussed with and approved by the legal and technical staff of the Division of Enforcement (ENF). If your production will be de-duplicated it is vital that you 1) preserve any unique metadata associated with the duplicate files, for example, custodian name and file location and, 2) make that unique metadata part of your production to the SEC.

General requirements for ALL document productions are:

- 1. A cover letter must be included with each production and should include the following information:
 - a. Case number, case name and requesting SEC staff member name
 - b. A list of each piece of media included in the production with its unique production volume number
 - c. A list of custodians, identifying the Bates range for each custodian
 - d. A list of redacted documents and the redaction reason
 - e. The time zone in which the emails were standardized during conversion
 - Whether the production contains native files produced from Mac operating system environments
- Data can be produced on CD, DVD, thumb drive, etc., using the media requiring the least number of deliverables and labeled with the following:
 - a. Case number
 - b. Production date
 - c. Producing party
 - d. Bates range (if applicable)
- All submissions must be organized by **custodian** unless otherwise instructed.
- 4. All document family groups, i.e. email attachments, embedded files, etc., should be produced together and children files should follow parent files sequentially in the Bates numbering.
- All load-ready collections should include only one data load file and one image pointer file.
- All load-ready text must be produced as separate document-level text files.
- All load-ready collections should account for custodians in the custodian field.
- All load-ready collections must provide the extracted contents of any container files to ensure all relevant files are produced as separate records.
- 9. Audio files should be separated from data files if both are included in the production.
- 10. Only alphanumeric characters and the underscore character are permitted in file names and folder names. Special characters are not permitted.
- 11. All electronic productions submitted on media must be produced using industry standard self-extracting encryption software.
- 12. The SEC uses 7zip to access compressed files. Note that the SEC cannot accept files that use AES-256 Jpeg or pkAES-256-Cert Deflate compression methods, even if the files are created with 7zip. If you have any questions or need additional information, please reach out to the requesting SEC staff member.
- 13. Electronic productions of 30 GB or less are strongly encouraged to be submitted via Secure File Transfer. All Secure File Transfers should be sent to the SEC Centralized Production Unit (ENF-CPU@sec.gov) with a CC to the requesting SEC staff member. If you do not have your own Secure File Transfer application, you may reach out to the requesting SEC staff member for a link to the SEC system in order to upload your production. If using the SEC Secure File Transfer system, you will NOT be able to CC individuals outside the SEC on your upload transmission. Note that the SEC cannot accept productions made using file sharing sites such as Google Drive or Microsoft Office 365.
- 14. Productions containing BSA or SAR material must be encrypted. Secure File Transfer applications may be used to produce BSA or SAR material. BSA or SAR material should be segregated and appropriately marked as BSA or SAR, or should be produced separately from other case related records.
- 15. Passwords for electronic documents, files, compressed archives and encrypted media must be provided separately either via email or in a cover letter apart from the media.
- 16. All electronic productions should be produced free of computer viruses.
- 17. Before producing forensically collected images, parties should reach out to the requesting SEC staff member in order to discuss appropriate handling.

- 18. Before producing unique data sets (large sets of relational data, website reconstruction, chat room data, etc.), parties should reach out to the requesting SEC staff member in order to discuss an appropriate production format.
- 19. Additional technical descriptions can be found in the addendum to this document.

Please note that productions sent to the SEC via United States Postal Service are subject to Mail Irradiation, and as a result electronic productions may be damaged.

Delivery Formats

Imaged Productions

The SEC prefers that all scanned paper and electronic file collections be produced in a structured format including industry standard load files, Bates numbered image files, native files and searchable document-level text files. Bates numbers should not contain spaces. Hyphens (-) and underscores () are acceptable.

1. Images

- a. Black and white images must be 300 DPI Group IV single-page TIFF files
- b. Color images must be produced in JPEG format
- c. File names cannot contain embedded spaces or special characters (including the comma)
- d. Folder names cannot contain embedded spaces or special characters (including the comma)
- e. All image files must have a unique file name, i.e. Bates number
- f. Images must be endorsed with sequential Bates numbers in the lower right corner of each image
- The number of image files per folder should not exceed 2,000 files g.
- h. Excel spreadsheets should have a placeholder image named by the Bates number of the file
- AUTOCAD/photograph files should be produced as a single page JPEG file

2. Image Cross-Reference File

The image cross-reference file (LOG or .OPT) links the images to the database records. It should be a comma-delimited file consisting of seven fields per line with a line in the cross-reference file for every image in the database with the following format:

ImageID, VolumeLabel, ImageFilePath, DocumentBreak, FolderBreak, BoxBreak, PageCount

3. Data File

The data file (.DAT) contains all of the fielded information that will be loaded into the database.

- The first line of the .DAT file must be a header row identifying the field names
- The .DAT file must use the following *Concordance*® default delimiters:

Comma ¶ ASCII character (020)

Quote b ASCII character (254)

- c. If the .DAT file is produced in Unicode format it must contain the byte order marker
- d. Date fields should be provided in the format: mm/dd/yyyy
- Date and time fields must be two separate fields
- f. The time zone must be included in all time fields
- If the production includes imaged emails and attachments, the attachment fields must be included to preserve the parent/child relationship between an email and its attachments
- An OCRPATH field must be included to provide the file path and name of the extracted text file on the produced storage media. The text file must be named after the FIRSTBATES. Do not include the text in the .DAT file.
- í. For productions with native files, a LINK field must be included to provide the file path and name of the native file on the produced storage media. The native file must be named after the FIRSTBATES.
- BEGATTACH and ENDATTACH fields must be two separate fields
- k. A complete list of metadata fields is available in Addendum A to this document

Text

Text must be produced as separate document-level text files, not as fields within the .DAT file. The text files must be named per the FIRSTBATES/Image Key and the full path to the text file (OCRPATH) should be included in the .DAT file. Text files may be in either ANSI or Unicode format, however, ALL text files must be in the same format within the same production. Note that productions containing text with foreign characters must produce text files in Unicode format to preserve the foreign characters. Text files must be in a separate folder, and the number of text files per folder should not exceed 2,000 files. There should be no special characters (including commas) in the folder names. For redacted documents, provide the full text for the redacted version.

Linked Native Files

Copies of original email and native file documents/attachments must be included for all electronic productions.

- a. Native file documents must be named per the FIRSTBATES number
- The full path of the native file must be provided in the .DAT file for the LINK field
- The number of native files per folder should not exceed 2,000 files

II. Native File Production without Load Files

With prior approval, native files may be produced without load files. Native file productions should not be Bates numbered. Native files must be produced as they are maintained in the normal course of business and organized by custodian-named file folders. Native email files (.PST or .MBOX) must be separated by custodian.

III. Adobe PDF File Production

With prior approval, Adobe PDF files may be produced in native file format.

- 1. All PDFs must be unitized at the document level, i.e. each PDF must represent a discrete document.
- 2. PDF files should be produced in separate folders named by the custodian. The folders should not contain any special characters (including commas).
- 3. All PDF files must contain embedded text that includes all discernible words within the document, not selected text or image only. This requires all layers of the PDF to be flattened first.
- 4. If PDF files are Bates endorsed, the PDF files must be named by the Bates range.

IV. Audio Files

Audio files from telephone recording systems must be produced in a format that is playable using Microsoft Windows Media PlayerTM. Additionally, the call information (metadata) related to each audio recording MUST be provided. The metadata file must be produced in a delimited text format. Field names must be included in the first row of the text file. The metadata must include, at a minimum, the following fields:

1) Caller Name: Caller's name or account/identification number

2) Originating Number: Caller's phone number3) Called Party Name: Called party's name

4) Terminating Number: Called party's phone number

5) Date: Date of call6) Time: Time of call

7) Filename: Filename of audio file

V. Video Files

Video files must be produced in a format that is playable using Microsoft Windows Media PlayerTM.

VI. Electronic Trade and Bank Records

When producing electronic trade records, bank records, or financial statements, provide the files in one of the following formats:

- 1. MS Excel spreadsheet with header information detailing the field structure. If any special codes exist in the dataset, a separate document must be provided that details all such codes. If details of the field structure do not fit in the header, a separate document must be provided that includes such details.
- 2. Delimited text file with header information detailing the field structure. The preferred delimiter is a vertical bar "[". If any special codes exist in the dataset, a separate document must be provided that details all such codes. If details of the field structure do not fit in the header, a separate document must be provided that includes such details.

VII. Electronic Phone Records

When producing an MS Excel spreadsheet for electronic phone records, provide the files in the following format:

- 1. MS Excel spreadsheet with header information detailing the field structure. If any special codes exist in the dataset, a separate document must be provided that details all such codes. If details of the field structure do not fit in the header, a separate document must be provided that includes such details. Data must be formatted in its native format (i.e. dates in a date format, numbers in an appropriate numerical format, and numbers with leading zeroes as text).
 - a. The metadata that must be included is outlined in **Addendum B** of this document. Each field of data must be loaded into a separate column. For example, Date and Start_Time must be produced in separate columns and not combined into a single column containing both pieces of information. Any fields of data that are provided in addition to those listed in **Addendum B** must also be loaded into separate columns.

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Data Delivery Standards

VIII. Audit Workpapers

The SEC prefers for workpapers to be produced in two formats: (1) With Bates numbers in accordance with the SEC Data Delivery Standards; and (2) in native format via laptop computer, web-based viewing platform, or otherwise, allowing for viewing in the same format and organization as the firm's audit team. Prior to production of workpapers via laptop computer or web-based viewing platform, audit firms should contact the requesting SEC staff member for additional information and written agreements addressing use of software, access, and viewing protocols.

IX. Mobile Device Data

Before producing any mobile device data (including but not limited to text messages and application data) parties should reach out to the requesting SEC staff member in order to discuss the appropriate production format. Productions containing chat data from applications must be identified at the time of production and the following information must be provided to the requesting SEC staff member and the SEC Centralized Production Unit: chat application, chat data format, and how the length of a chat is determined (i.e. set duration of time, number of minutes without messages, etc.)

ADDENDUM A

The metadata of electronic document collections should be extracted and provided in a .DAT file using the field definition and formatting described below:

Field Name	Sample Data	Description
FIRSTBATES	EDC0000001	First Bates number of native file document/email
LASTBATES	EDC0000001	**The LASTBATES field should be populated for single page documents/emails.
ATTACHRANGE	EDC0000001 - EDC0000015	Bates number of the first page of the parent document to the Bates number of the last page of the last attachment "child" document
BEGATTACH	EDC0000001	First Bates number of attachment range
ENDATTACH	EDC0000015	Last Bates number of attachment range
PARENT BATES	EDC0000001	First Bates number of parent document/Email **This PARENT BATES field should be populated in each record representing an attachment "child" document
CHILD BATES	EDC0000002; EDC0000014	First Bates number of "child" attachment(s); can be more than one Bates number listed depending on the number of attachments **The CHILD_BATES field should be populated in each record representing a "parent" document
CUSTODIAN	Smith, John	Email: Mailbox where the email resided Native: Name of the individual or department from whose files the document originated
FROM	John Smith	Email: Sender Native: Author(s) of document **semi-colon should be used to separate multiple entries
ТО	Coffman, Janice; LeeW [mailto:LeeW@MSN.com]	Recipient(s) **semi-colon should be used to separate multiple entries
CC	Frank Thompson [mailto: frank Thompson@cdt.com]	Carbon copy recipient(s) **semi-colon should be used to separate multiple entries
BCC	John Cain	Blind carbon copy recipient(s) **semi-colon should be used to separate multiple entries
SUBJECT	Board Meeting Minutes	Email: Subject line of the email Native: Title of document (if available)
FILE_NAME	BoardMeetingMinutes.docx	Native: Name of the original native file, including extension
DATE_SENT	10/12/2010	Email: Date the email was sent Native: (empty)
TIME_SENT/TIME _ZONE	07:05 PM GMT	Email: Time the email was sent/ Time zone in which the emails were standardized during conversion. Native: (empty) **This data must be a separate field and cannot be combined with the DATE SENT field

TIME_ZONE	GMT	The time zone in which the emails were standardized
		during conversion.
		Email: Time zone
		Native: (empty)
LINK	D:\001\ EDC0000001.msg	Hyperlink to the email or native file document
	5	**The linked file must be named per the
		FIRSTBATES number
MIME TYPE	application/msword	The content type of an email or native file document
	approacion in word	as identified/extracted from the header
FILE EXTEN	MSG	The file type extension representing the email or
THE EXTEN	Med	native file document; will vary depending on the
		format
AUTHOR	John Smith	Email: (empty)
AUTHOR	John Shiat	Native: Author of the document
LAST ALITHOD	Jane Doe	
LAST_AUTHOR	Jane Doe	Email: (empty)
DATE CREATES	10/10/2010	Native: Last Author of the document
DATE_CREATED	10/10/2010	Email: (empty)
TILLE CONTACTO	10.05.434.0347	Native: Date the document was created
TIME_CREATED/T	10:25 AM GMT	Email: (empty)
IME ZONE		Native: Time the document was created including time
		zone
		**This data must be a separate field and cannot be
		combined with the DATE_CREATED field
DATE_MOD	10/12/2010	Email: (empty)
_		Native: Date the document was last modified
TIME_MOD/TIME	07:00 PM GMT	Email: (empty)
ZONE		Native: Time the document was last modified including
		the time zone
		**This data must be a separate field and cannot be
		combined with the DATE_MOD field
DATE ACCEDED	10/12/2010	_
DATE_ACCESSD	10/12/2010	Email: (empty)
TIME LOSSON	07.00 PM (()) (T	Native: Date the document was last accessed
TIME_ACCESSD/T	07:00 PM GMT	Email: (empty)
IME ZONE		Native: Time the document was last accessed including
		the time zone
		**This data must be a separate field and cannot be
		combined with the DATE_ACCESSD field
PRINTED_DATE	10/12/2010	Email: (empty)
TRIITIDE_DITTE	10/12/2010	Native: Date the document was last printed
FILE SIZE	5,952	Size of native file document/email in KB
PGCOUNT	1	Number of pages in native file document/email
PATH	J:\Shared\SmithJ\October	Email: (empty)
IVIU		Native: Path where native file document was stored
	Agenda.doc	
DITCH COATH	n (r.) (r.)	including original file name.
INTFILEPATH	Personal Folders\Deleted	Email: original location of email including origina
	Items\Board Meeting	file name.
	Minutes.msg	Native: (empty)
INTMSGID	<000805c2c71b\$75977050\$cb	Email: Unique Message ID
	8306d1@MSN>	Native: (empty)

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HEADER	Return-Path: <example_from@dc.edu> X-SpamCatcher-Score:1[X] Received:from[136.167.40.119] (HELO dc.edu) by fe3.dc.edu (CommuniGate Pro SMTP4.1.8) with ESMTP-TLS id 61258719 for example_to@mail.dc.edu; Mon, 23 Aug 2004 11:40:10 - 0400 Message-ID: <4129F3CA.2020509@dc.edu> Date: Mon, 23 Aug 2005 11:40:36 -400 From: Taylor Evans <example_from@dc.edu> User-Agent:Mozilla/5.0 (Windows;U; Windows NT 5.1; en-US;rv:1.0.1) Gecko/20020823 Netscape/7.0 X-Accept-Language:en-us,en MIME-Version:1.0 To: Jon Smith <example_to@mail.dc.edu> Subject:Business Development Meeting Content-Type: text/plain;charset-us-ascii; format=flowed Content-Transfer-Encoding:7bit</example_to@mail.dc.edu></example_from@dc.edu></example_from@dc.edu>	
SHA256	AD6128C5CA40164AF71A1E FC800E12D2F195CE07BB5F8 C813B0888A2DDE6A06F	SHA-256 hash value of the document.
OCRPATH	TEXT/001/EDC0000001.txt	Path to extracted text of the native file

Sample Image Cross-Reference File:

IMG000001,,E:\001\IMG0000001.TIF,Y,,,
IMG0000002,,E:\001\IMG0000002.TIF,,,,
IMG0000003,,E:\001\IMG0000003.TIF,,,,
IMG0000004,,E:\001\IMG0000005.TIF,Y,,,
IMG0000005,,E:\001\IMG0000005.TIF,Y,,,
IMG0000006,,E:\001\IMG0000006.TIF,,,,,

ADDENDUM B

For Electronic Phone Records, include the following fields in separate columns: For Calls:

- 1) Account Number
- 2) Connection Date Date the call was received or made
- 3) Connection Time Time call was received or made
- 4) Seizure Time Time it took for the call to be placed in seconds
- 5) Originating Number Phone that placed the call
- 6) Terminating Number Phone that received the call
- 7) Elapsed Time The length of time the call lasted, preferably in seconds
- 8) End Time The time the call ended
- 9) Number Dialed Actual number dialed
- 10) IMEI Originating Unique id to phone used to make call
- 11) IMEI Terminating- Unique id to phone used to receive call
- 12) IMSI Originating Unique id to phone used to make call
- 13) IMSI Terminating- Unique id to phone used to receive call
- 14) Call Codes Identify call direction or other routing information
- 15) Time Zone Time Zone in which the call was received or placed, if applicable

For Text messages:

- 1) Account Number
- Connection Date Date the text was received or made
- 3) Connection Time Time text was received or made
- 4) Originating Number Who placed the text
- 5) Terminating Number Who received the text
- 6) IMEI Originating Unique id to phone used to make text
- 7) IMEI Terminating Unique id to phone used to receive text
- 8) IMSI Originating Unique id to phone used to make text
- 9) IMSI Terminating- Unique id to phone used to receive text
- 10) Text Code Identify text direction, or other text routing information
- 11) Text Type Code Type of text message (sent SMS, MMS, or other)
- 12) Time Zone Time Zone in which the call was received or placed, if applicable

For Mobile Data Usage:

- 1) Account Number
- 2) Connection Date Date the data was received or made
- 3) Connection Time Time data was received or made
- 4) Originating number Number that used data
- 5) IMEI Originating Unique id of phone that used data
- 6) IMSI Originating Unique id of phone that used data
- 7) Data or Data codes Identify data direction, or other data routing information
- 8) Time Zone Time Zone in which the call was received or placed, if applicable

SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549

Supplemental Information for Persons Requested to Supply Information Voluntarily or Directed to Supply Information Pursuant to a Commission Subpoena

A. False Statements and Documents

Section 1001 of Title 18 of the United States Code provides that fines and terms of imprisonment may be imposed upon:

[W]hoever, in any matter within the jurisdiction of the executive, legislative, or judicial branch of the Government of the United States, knowingly and willfully--

- (1) falsifies, conceals, or covers up by any trick, scheme, or device a material fact;
- (2) makes any materially false, fictitious, or fraudulent statement or representation; or
- (3) makes or uses any false writing or document knowing the same to contain any materially false, fictitious, or fraudulent statement or entry.

Section 1519 of Title 18 of the United States Code provides that fines and terms of imprisonment may be imposed upon:

Whoever knowingly alters, destroys, mutilates, conceals, covers up, falsifies, or makes a false entry in any record, document, or tangible object with the intent to impede, obstruct, or influence the investigation or proper administration of any matter within the jurisdiction of any department or agency of the United States . . ., or in relation to or contemplation of any such matter.

B. Testimony

If your testimony is taken, you should be aware of the following:

- 1. Record. Your testimony will be transcribed by a reporter. If you desire to go off the record, please indicate this to the Commission employee taking your testimony, who will determine whether to grant your request. The reporter will not go off the record at your, or your counsel's, direction.
- 2. Counsel. You have the right to be accompanied, represented and advised by counsel of your choice. Your counsel may advise you before, during and after your testimony; question you briefly at the conclusion of your testimony to clarify any of the answers you give during testimony; and make summary notes during your testimony solely for your use. If you are accompanied by counsel, you may consult privately.

If you are not accompanied by counsel, please advise the Commission employee taking your testimony if, during the testimony, you desire to be accompanied, represented and advised by counsel. Your testimony will be adjourned once to afford you the opportunity to arrange to be so accompanied, represented or advised.

You may be represented by counsel who also represents other persons involved in the Commission's investigation. This multiple representation, however, presents a potential conflict of interest if one client's interests are or may be adverse to another's. If you are represented by counsel who also represents other persons involved in the investigation, the Commission will assume that you and counsel have discussed and resolved all issues concerning possible conflicts of interest. The choice of counsel, and the responsibility for that choice, is yours.

3. Transcript Availability. Rule 6 of the Commission's Rules Relating to Investigations, 17 CFR 203.6, states:

A person who has submitted documentary evidence or testimony in a formal investigative proceeding shall be entitled, upon written request, to procure a copy of his documentary evidence or a transcript of his testimony on payment of the appropriate fees: *Provided, however*, That in a nonpublic formal investigative proceeding the Commission may for good cause deny such request. In any event, any witness, upon proper identification, shall have the right to inspect the official transcript of the witness' own testimony.

If you wish to purchase a copy of the transcript of your testimony, the reporter will provide you with a copy of the appropriate form. Persons requested to supply information voluntarily will be allowed the rights provided by this rule.

4. Perjury. Section 1621 of Title 18 of the United States Code provides that fines and terms of imprisonment may be imposed upon:

Whoever--

- (1) having taken an oath before a competent tribunal, officer, or person, in any case in which a law of the United States authorizes an oath to be administered, that he will testify, declare, depose, or certify truly, or that any written testimony, declaration, deposition, or certificate by him subscribed, is true, willfully and contrary to such oath states or subscribes any material matter which he does not believe to be true; or
- (2) in any declaration, certificate, verification, or statement under penalty of periury as permitted under section 1746 of title 28. United States Code, willfully subscribes as true any material matter which he does not believe to be true.
- 5. Fifth Amendment and Voluntary Testimony. Information you give may be used against you in any federal, state, local or foreign administrative, civil or criminal proceeding brought by the Commission or any other agency.

You may refuse, in accordance with the rights guaranteed to you by the Fifth Amendment to the Constitution of the United States, to give any information that may tend to incriminate you.

If your testimony is not pursuant to subpoena, your appearance to testify is voluntary, you need not answer any question, and you may leave whenever you wish. Your cooperation is, however, appreciated.

Formal Order Availability. If the Commission has issued a formal order of investigation, it will be shown to you during your testimony, at your request. If you desire a copy of the formal order, please make your request in writing.

C. Submissions and Settlements

Rule 5(c) of the Commission's Rules on Informal and Other Procedures, 17 CFR 202.5(c), states:

Persons who become involved in . . . investigations may, on their own initiative, submit a written statement to the Commission setting forth their interests and position in regard to the subject matter of the investigation. Upon request, the staff, in its discretion, may advise such persons of the general nature of the investigation, including the indicated violations as they pertain to them, and the amount of time that may be available for preparing and submitting a statement prior to the presentation of a staff recommendation to the Commission for the commencement of an administrative or injunction proceeding. Submissions by interested persons should be forwarded to the appropriate Division Director or Regional Director with a copy to the staff members conducting the investigation and should be clearly referenced to the specific investigation to which they relate. In the event a recommendation for the commencement of an enforcement proceeding is presented by the staff, any submissions by interested persons will be forwarded to the Commission in conjunction with the staff memorandum.

The staff of the Commission routinely seeks to introduce submissions made pursuant to Rule 5(c) as evidence in Commission enforcement proceedings, when the staff deems appropriate.

Rule 5(f) of the Commission's Rules on Informal and Other Procedures, 17 CFR 202.5(f), states:

In the course of the Commission's investigations, civil lawsuits, and administrative proceedings, the staff, with appropriate authorization, may discuss with persons involved the disposition of such matters by consent, by settlement, or in some other manner. It is the policy of the Commission, however, that the disposition of any such matter may not, expressly or impliedly, extend to any criminal charges that have been, or may be, brought against any such person or any recommendation with respect thereto. Accordingly, any person involved in an enforcement matter before the Commission who consents, or agrees to consent, to any judgment or order does so solely for the purpose of resolving the claims against him in that investigative, civil, or administrative matter and not for the purpose of resolving any criminal charges that have been, or might be, brought against him. This policy reflects the fact that neither the Commission nor its staff has the authority or responsibility for instituting, conducting, settling, or otherwise disposing of criminal proceedings. That authority and responsibility are vested in the Attorney General and representatives of the Department of Justice.

D. Freedom of Information Act

The Freedom of Information Act, 5 U.S.C. 552 (the "FOIA"), generally provides for disclosure of information to the public. Rule 83 of the Commission's Rules on Information and Requests, 17 CFR 200.83, provides a procedure by which a person can make a written request that information submitted to the Commission not be disclosed under the FOIA. That rule states that no determination as to the validity of such a request will be made until a request for disclosure of the information under the FOIA is received. Accordingly, no response to a request that information not be disclosed under the FOIA is necessary or will be given until a request for disclosure under the FOIA is received. If you desire an acknowledgment of receipt of your written request that information not be disclosed under the FOIA, please provide a duplicate request, together with a stamped, self-addressed envelope.

E. Authority for Solicitation of Information

Persons Directed to Supply Information Pursuant to Subpoena. The authority for requiring production of information is set forth in the subpoena. Disclosure of the information to the Commission is mandatory, subject to the valid assertion of any legal right or privilege you might have.

Persons Requested to Supply Information Voluntarily. One or more of the following provisions authorizes the Commission to solicit the information requested: Sections 19 and/or 20 of the Securities Act of 1933; Section 21 of the Securities Exchange Act of 1934; Section 321 of the Trust Indenture Act of 1939; Section 42 of the Investment Company Act of 1940; Section 209 of the Investment Advisers Act of 1940; and 17 CFR 202.5. Disclosure of the requested information to the Commission is voluntary on your part.

F. Effect of Not Supplying Information

Persons Directed to Supply Information Pursuant to Subpoena. If you fail to comply with the subpoena, the Commission may seek a court order requiring you to do so. If such an order is obtained and you thereafter fail to supply the information, you may be subject to civil and/or criminal sanctions for contempt of court. In addition, Section 21(c) of the Securities Exchange Act of 1934, Section 42(c) of the Investment Company Act of 1940, and Section 209(c) of the Investment Advisers Act of 1940 provide that fines and terms of imprisonment may be imposed upon any person who shall, without just cause, fail or refuse to attend and testify or to answer any lawful inquiry, or to produce books, papers, correspondence, memoranda, and other records in compliance with the subpoena.

Persons Requested to Supply Information Voluntarily. There are no direct sanctions and thus no direct effects for failing to provide all or any part of the requested information.

G. Principal Uses of Information

The Commission's principal purpose in soliciting the information is to gather facts in order to determine whether any person has violated, is violating, or is about to violate any provision of the federal securities laws or rules for which the Commission has enforcement authority, such as rules of securities exchanges and the rules of the Municipal Securities Rulemaking Board. Facts developed may, however, constitute violations of other laws or rules. Information provided may be used in Commission and other agency enforcement proceedings. Unless the Commission or its staff explicitly agrees to the contrary in writing, you should not assume that the Commission or its staff acquiesces in, accedes to, or concurs or agrees with, any position, condition, request, reservation of right, understanding, or any other statement that purports, or may be deemed, to be or to reflect a limitation upon the Commission's receipt, use, disposition, transfer, or retention, in accordance with applicable law, of information provided.

H. Routine Uses of Information

The Commission often makes its files available to other governmental agencies, particularly United States Attorneys and state prosecutors. There is a likelihood that information supplied by you will be made available to such agencies where appropriate. Whether or not the Commission makes its files available to other governmental agencies is, in general, a confidential matter between the Commission and such other governmental agencies.

Set forth below is a list of the routine uses which may be made of the information furnished.

- 1. To appropriate agencies, entities, and persons when (1) the SEC suspects or has confirmed that there has been a breach of the system of records, (2) the SEC has determined that as a result of the suspected or confirmed breach there is a risk of harm to individuals, the SEC (including its information systems, programs, and operations), the Federal Government, or national security; and (3) the disclosure made to such agencies, entities, and persons is reasonably necessary to assist in connection with the SEC's efforts to respond to the suspected or confirmed breach or to prevent, minimize, or remedy such harm.
- 2. To other Federal, state, local, or foreign law enforcement agencies; securities self-regulatory organizations; and foreign financial regulatory authorities to assist in or coordinate regulatory or law enforcement activities with the SEC.
- 3. To national securities exchanges and national securities associations that are registered with the SEC, the Municipal Securities Rulemaking Board; the Securities Investor Protection Corporation; the Public Company Accounting Oversight Board; the Federal banking authorities, including, but not limited to, the Board of Governors of the Federal Reserve System, the Comptroller of the Currency, and the Federal Deposit Insurance Corporation; state securities regulatory agencies or organizations; or regulatory authorities of a foreign government in connection with their regulatory or enforcement responsibilities.
- 4. By SEC personnel for purposes of investigating possible violations of, or to conduct investigations authorized by, the Federal securities laws.
- 5. In any proceeding where the Federal securities laws are in issue or in which the Commission, or past or present members of its staff, is a party or otherwise involved in an official capacity.

- 6. In connection with proceedings by the Commission pursuant to Rule 102(e) of its Rules of Practice, 17 CFR 201.102(e).
- 7. To a bar association, state accountancy board, or other Federal, state, local, or foreign licensing or oversight authority; or professional association or self-regulatory authority to the extent that it performs similar functions (including the Public Company Accounting Oversight Board) for investigations or possible disciplinary action.
- 8. To a Federal, state, local, tribal, foreign, or international agency, if necessary to obtain information relevant to the SEC's decision concerning the hiring or retention of an employee; the issuance of a security clearance; the letting of a contract; or the issuance of a license, grant, or other benefit.
- 9. To a Federal, state, local, tribal, foreign, or international agency in response to its request for information concerning the hiring or retention of an employee; the issuance of a security clearance; the reporting of an investigation of an employee; the letting of a contract; or the issuance of a license, grant, or other benefit by the requesting agency, to the extent that the information is relevant and necessary to the requesting agency's decision on the matter.
- 10. To produce summary descriptive statistics and analytical studies, as a data source for management information, in support of the function for which the records are collected and maintained or for related personnel management functions or manpower studies; may also be used to respond to general requests for statistical information (without personal identification of individuals) under the Freedom of Information Act.
- 11. To any trustee, receiver, master, special counsel, or other individual or entity that is appointed by a court of competent jurisdiction, or as a result of an agreement between the parties in connection with litigation or administrative proceedings involving allegations of violations of the Federal securities laws (as defined in section 3(a)(47) of the Securities Exchange Act of 1934, 15 U.S.C. 78c(a)(47)) or pursuant to the Commission's Rules of Practice, 17 CFR 201.100 through 900 or the Commission's Rules of Fair Fund and Disgorgement Plans, 17 CFR 201.1100 through 1106, or otherwise, where such trustee, receiver, master, special counsel, or other individual or entity is specifically designated to perform particular functions with respect to, or as a result of, the pending action or proceeding or in connection with the administration and enforcement by the Commission of the Federal securities laws or the Commission's Rules of Practice or the Rules of Fair Fund and Disgorgement Plans.
- 12. To any persons during the course of any inquiry, examination, or investigation conducted by the SEC's staff, or in connection with civil litigation, if the staff has reason to believe that the person to whom the record is disclosed may have further information about the matters related therein, and those matters appeared to be relevant at the time to the subject matter of the inquiry.
- 13. To interns, grantees, experts, contractors, and others who have been engaged by the Commission to assist in the performance of a service related to this system of records and who need access to the records for the purpose of assisting the Commission in the efficient administration of its programs, including by performing clerical, stenographic, or data analysis functions, or by reproduction of records by electronic or other means. Recipients of these records shall be required to comply with the requirements of the Privacy Act of 1974, as amended, 5 U.S.C. 552a.
- 14. In reports published by the Commission pursuant to authority granted in the Federal securities laws (as such term is defined in section 3(a)(47) of the Securities Exchange Act of 1934, 15 U.S.C. 78c(a)(47)), which authority shall include, but not be limited to, section 21(a) of the Securities Exchange Act of 1934, 15 U.S.C. 78u(a)).
- 15. To members of advisory committees that are created by the Commission or by Congress to render advice and recommendations to the Commission or to Congress, to be used solely in connection with their official designated functions.
- 16. To any person who is or has agreed to be subject to the Commission's Rules of Conduct, 17 CFR 200.735-1 through 200.735-18, and who assists in the investigation by the Commission of possible violations of the Federal securities laws (as such term is defined in section 3(a)(47) of the Securities Exchange Act of 1934, 15 U.S.C. 78c(a)(47)), in the preparation or conduct of enforcement actions brought by the Commission for such violations, or otherwise in connection with the Commission's enforcement or regulatory functions under the Federal securities laws.
- 17. To a Congressional office from the record of an individual in response to an inquiry from the Congressional office made at the request of that individual.
- 18. To members of Congress, the press, and the public in response to inquiries relating to particular Registrants and their activities, and other matters under the Commission's jurisdiction.
- 19. To prepare and publish information relating to violations of the Federal securities laws as provided in 15 U.S.C. 78c(a)(47)), as amended.
- 20. To respond to subpoenas in any litigation or other proceeding.

- 21. To a trustee in bankruptcy.
- 22. To any governmental agency, governmental or private collection agent, consumer reporting agency or commercial reporting agency, governmental or private employer of a debtor, or any other person, for collection, including collection by administrative offset, Federal salary offset, tax refund offset, or administrative wage garnishment, of amounts owed as a result of Commission civil or administrative proceedings.
- 23. To another Federal agency or Federal entity, when the SEC determines that information from this system of records is reasonably necessary to assist the recipient agency or entity in (1) responding to a suspected or confirmed breach or (2) preventing, minimizing, or remedying the risk of harm to individuals, the recipient agency or entity (including its information systems, programs, and operations), the Federal Government, or national security, resulting from a suspected or confirmed breach.

* * * * *

Small Business Owners: The SEC always welcomes comments on how it can better assist small businesses. If you would like more information, or have questions or comments about federal securities regulations as they affect small businesses, please contact the Office of Small Business Policy, in the SEC's Division of Corporation Finance, at 202-551-3460. If you would prefer to comment to someone outside of the SEC, you can contact the Small Business Regulatory Enforcement Ombudsman at http://www.sba.gov/ombudsman or toll free at 888-REG-FAIR. The Ombudsman's office receives comments from small businesses and annually evaluates federal agency enforcement activities for their responsiveness to the special needs of small business.



UNITED STATES SECURITIES AND EXCHANGE COMMISSION

100 PEARL STREET, SUITE 20-100 NEW YORK, NY 10004-2616

DIVISION OF ENFORCEMENT

March 12, 2024

VIA UPS

(b)(6); (b)(7)(C)		

Re: <u>C-08950</u>

Dear (b)(6); (b)(7)(C)

The enclosed subpoena has been issued pursuant to a formal order entered by the United States Securities and Exchange Commission. Pursuant to Rule 8 of the United States Securities and Exchange Commission's Rules Relating to Investigations, 17 C.F.R. § 203.8, I have enclosed a subpoena for documents issued to you, in connection with the above-referenced investigation.

The enclosed subpoena requires you to produce documents to the SEC by March 26, 2024. Please deliver the materials to:

ENF-CPU U.S. Securities and Exchange Commission 14420 Albemarle Point Place, Suite 102 Chantilly, VA 20151-1750

For smaller electronic productions under 10MB in size, the materials may be emailed to the following email address: ENF-CPU@sec.gov.

Please also provide a duplicate copy of any document production cover letters to me at (b)(6); (c)(7)(C) (sec.gov. Additionally, please include the SEC matter number and the name of the requesting attorney when responding.

Please carefully read the subpoena attachment, which contains, among other things, important instructions related to the manner of producing documents. In particular, if you prefer to send us copies of original documents, the staff requests that you scan and produce hard copy documents, as well as electronic documents, in an electronic format consistent with the SEC Data Delivery Standards attached hereto. All electronic documents responsive to

the subpoena, including all metadata, should also be produced in their native software **format**. If you have any questions concerning the production of documents in an electronic format, please contact me as soon as possible and in any event before producing documents. For security reasons, we strongly encourage the encryption of sensitive documents before production.

In your cover letter(s) accompanying the production of responsive documents, please enclose a list briefly describing each item you send. The list should identify the paragraph(s) in the subpoena attachment to which each item responds. Please also state in the cover letter(s) whether you believe you have met the obligations of the subpoena by searching carefully and thoroughly for everything called for by the subpoena, and sending it all to us.

A copy of the subpoena should be included with the documents that are produced. Correspondence should reference case number, case name and requesting SEC staff member.

Passwords for documents, files, compressed archives, and encrypted media should be provided separately either via email addressed to ENF-CPU@sec.gov, or in a separate cover letter mailed separately from the data. Password correspondence should reference case number, case name and requesting SEC staff member.

Please also provide a narrative description describing what was done to identify and collect documents responsive to the subpoena. At a minimum, the narrative should describe:

- who searched for documents;
- who reviewed documents found to determine whether they were responsive;
- which custodians were searched;
- what sources were searched (e.g., computer files, CDs, DVDs, thumb drives, flash drives, online storage media, hard copy files, diaries, datebooks, planners, filing cabinets, storage facilities, home offices, work offices, voice mails, home email, webmail, work email, backup tapes or other media);
- what search terms, if any, were employed to identify responsive documents;
- what firms and/or persons, if any, assisted in analyzing the data collected;
- what third parties, if any, were contacted to obtain responsive documents (e.g., phone companies for phone records, brokerage firms for brokerage records); and
- where the original electronic and hardcopy documents are maintained and by whom.

In addition, for any documents that qualify as records of regularly conducted activities under Federal Rule of Evidence 902(11), please complete a business records certification (a sample of which is enclosed) and return it with the document production. Execution of this certification may allow the Commission to introduce the documents provided by you in any subsequent judicial proceeding, without requiring your testimony.

Enclosed is a copy of the Commission's Form 1662, entitled "Supplemental Information for Persons Requested to Supply Information Voluntarily or Directed to Supply Information Pursuant to a Commission Subpoena." This form explains how we may use the information that you provide to the Commission and has other important information for you.

This investigation is a non-public, fact-finding inquiry. We are trying to determine whether there have been any violations of the federal securities laws. The investigation does not mean that we have concluded that anyone has violated the law. Also, the investigation does not mean that we have a negative opinion of any person, entity, or security.

If you have any questions or would like to discuss this matter, you may contact me at (b)(6); (b)(7)(C)

Sincerely,
(b)(6); (b)(7)(C)
Division of Defendance
Division of Enforcement
(b)(6);

Enclosures: Subpoena and Attachment

SEC Data Delivery Standards

SEC Form 1662

Business Records Certification



SUBPOENA

UNITED STATES OF AMERICA SECURITIES AND EXCHANGE COMMISSION

C-08950

То:	(b)(6); (b)(7)(C)
\boxtimes	YOU MUST PRODUCE everything specified in the Attachment to this subpoena to officers of the Securities and Exchange Commission, at the place, date and time specified below:
	ENF-CPU, U.S. Securities and Exchange Commission, 14420 Albemarle Point Place, Suite 102 Chantilly, VA 20151-1750, no later than March 26, 2024
	YOU MUST TESTIFY before officers of the Securities and Exchange Commission, at the place, date and time specified below:
By:	FEDERAL LAW REQUIRES YOU TO COMPLY WITH THIS SUBPOENA. If you do not comply with this subpoena, the SEC may bring an action in Federal Court to enforce this subpoena. Failure to comply with a court order enforcing this subpoena may result in the court imposing a fine, imprisonment, or both. (b)(6); (b)(7)(C) Date: March 12, 2024
	U.S. Securities and Exchange Commission New York Regional Office 100 Pearl Street, Suite 20-100 New York, NY 10004-2616

I am an officer of the U.S. Securities and Exchange Commission authorized to issue subpoenas in this matter. The Securities and Exchange Commission has issued a formal order authorizing this investigation under Section 20(a) of the Securities Act of 1933.

NOTICE TO WITNESS: If you claim a witness fee or mileage, submit this subpoena with the claim voucher.

SUBPOENA ATTACHMENT FOR (b)(6); (b)(7)(C) C-08950

March 12, 2024

Definitions

As used in this subpoena, the words and phrases listed below shall have the following meanings:

- 1. "Ethereum Cat Herders" or "ECH" means the group operating under the name "Ethereum Cat Herders", including parents, subsidiaries, affiliates, predecessors, successors, officers, directors, employees, agents, general partners, limited partners, partnerships and aliases, code names, or trade or business names used by any of the foregoing.
- 2. "Document" shall include, but is not limited to, any written, printed, or typed matter including, but not limited to all drafts and copies bearing notations or marks not found in the original, letters and correspondence, interoffice communications, slips, tickets, records, worksheets, financial records, accounting documents, bookkeeping documents, memoranda, reports, manuals, telephone logs, facsimiles, messages of any type, telephone messages, text messages, voice mails, tape recordings, notices, instructions, minutes, summaries, notes of meetings, file folder markings, and any other organizational indicia, purchase orders, information recorded by photographic process, including microfilm and microfiche, computer printouts, spreadsheets, and other electronically stored information, including but not limited to writings, drawings, graphs, charts, photographs, sound recordings, images, and other data or data compilations that are stored in any medium from which information can be retrieved, obtained, manipulated, or translated.
- 3. "Communication" means any correspondence, contact, discussion, e-mail, instant message, or any other kind of oral or written exchange or transmission of information (in the form of facts, ideas, inquiries, or otherwise) and any response thereto between two or more Persons or entities, including, without limitation, all telephone conversations, face-to-face meetings or conversations, internal or external discussions, or exchanges of a Document or Documents.
- 4. "Concerning" means directly or indirectly, in whole or in part, describing, constituting, evidencing, recording, evaluating, substantiating, concerning, referring to, alluding to, in connection with, commenting on, relating to, regarding, discussing, showing, describing, analyzing or reflecting.
- 5. An "Agreement" means any actual or contemplated (i) written or oral Agreement; (ii) term or provision of such Agreement; or (iii) amendment of any nature or termination of such Agreement. A request for any Agreement among or between specified parties includes a request for all Documents Concerning (i) any actual or contemplated Agreement among or between such parties, whether or not such Agreement included any other Person; (ii) the drafting or negotiation of any such Agreement; (iii) any actual or

- contemplated demand, request or application for any such Agreement, and any response thereto; and (iv) any actual or contemplated objection or refusal to enter into any such Agreement, and any response thereto.
- 6. The "Ethereum Foundation" means the entity or business doing business under the name Ethereum Foundation, including, but not limited to, ethereum.org, the Ethereum Support Program, and parents, subsidiaries, affiliates, predecessors, successors, officers, directors, employees, agents, general partners, limited partners, partnerships and aliases, owners, code names, or trade or business names used by any of the foregoing.
- 7. "EIP" means Ethereum Improvement Proposal.
- 8. "The Merge" or "Ethereum 2.0" means the transition by the Ethereum blockchain of its consensus mechanism from proof-of-work to proof-of-stake.
- 9. "Bank or Financial Account" means the domestic or foreign bank, brokerage, or financial accounts held, controlled, or used by you or by other people on your behalf. This includes, but is not limited to, accounts that contain currency, securities, or crypto assets.
- 10. The term "you" and "your" means the Person to whom or entity to which this subpoena was issued.
- 11. To the extent necessary to bring within the scope of this this subpoena any information or Documents that might otherwise be construed to be outside its scope:
 - a. the word "or" means "and/or";
 - b. the word "and" means "and/or";
 - c. the functional words "each," "every" "any" and "all" shall each be deemed to include each of the other functional words;
 - d. the masculine gender includes the female gender and the female gender includes the masculine gender; and
 - e. the singular includes the plural and the plural includes the singular.

Instructions

- 1. Unless otherwise specified, this subpoena calls for production of the original Documents and all copies and drafts of same. Documents responsive to this subpoena may be in electronic or paper form. Electronic Documents such as email should be produced in accordance with the attached Document entitled SEC Data Delivery Standards. All responsive electronic Documents, including all metadata, should also be produced in their native software format.
- 2. For Documents in paper format, you may send the originals, or, if you prefer, you may send copies of the originals. The Commission cannot reimburse you for the copying costs. If you are sending copies, the staff requests that you scan (rather than photocopy) hard copy Documents and produce them in an electronic format consistent with the SEC

Data Delivery Standards. Alternatively, you may send us photocopies of the Documents in paper format. If you choose to send copies, you <u>must</u> secure and retain the originals and store them in a safe place. The staff may later request or require that you produce the originals.

- 3. Whether you scan or photocopy Documents, the copies must be identical to the originals, including even faint marks or print. Also, please note that if copies of a Document differ in any way, they are considered separate Documents and you must send each one. For example, if you have two copies of the same letter, but only one of them has handwritten notes on it, you must send both the clean copy and the one with notes.
- 4. In producing a photocopy of an original Document that contains post-it(s), notation flag(s), or other removable markings or attachments which may conceal all or a portion of the markings contained in the original Document, photocopies of the original Document both with and without the relevant post-it(s), notation flag(s), or removable markings or attachments should be produced.
- 5. Documents should be produced as they are kept in the ordinary course of business or be organized and labeled to correspond with the categories in this request. In that regard, Documents should be produced in a unitized manner, i.e., delineated with staples or paper clips to identify the Document boundaries.
- 6. Documents should be labeled with sequential numbering (bates-stamped).
- 7. You must produce all Documents created during, or Concerning, the time period **July 1**, **2018 to the present**, unless otherwise specified.
- 8. The scope of any given request should not be limited or narrowed based on the fact that it calls for Documents that are responsive to another request.
- 9. You are not required to produce exact duplicates of any Documents that have been previously produced to the Securities and Exchange Commission staff in connection with this matter. If you are not producing Documents based upon a prior production, please identify the responsive Documents that were previously produced.
- 10. For any Documents that qualify as records of regularly conducted activities under Federal Rule of Evidence 902(11), please complete a business records certification (a sample of which is enclosed) and return it with the Document production.
- 11. This subpoena covers all Documents in or subject to your possession, custody or control, including all Documents that are not in your immediate possession but that you have the effective ability to obtain, that are responsive, in whole or in part, to any of the individual requests set forth below. If, for any reason including a claim of attorney-client privilege you do not produce something called for by the request, you should submit a list of what you are not producing. The list should describe each item separately, noting:

- a. its author(s);
- b. its date;
- c. its subject matter;
- d. the name of the Person who has the item now, or the last Person known to have it;
- e. the names of everyone who ever had the item or a copy of it, and the names of everyone who was told the item's contents;
- f. the basis upon which you are not producing the responsive Document;
- g. the specific request in the subpoena to which the Document relates;
- h. the attorney(s) and the client(s) involved; and
- i. in the case of the work product doctrine, the litigation for which the Document was prepared in anticipation.
- 12. If Documents responsive to this subpoena no longer exist because they have been lost, discarded, or otherwise destroyed, you should identify such Documents and give the date on which they were lost, discarded or destroyed.

Documents to be Produced

- 1. Documents sufficient to identify former and current ECH members, and their titles, if any.
- 2. All Documents and Communications Concerning (a) The Merge; (b) EIP-1559; (c) EIP-2982; (d) EIP-3675; and (e) EIP-4895.
- 3. All Agreements between you or ECH, on the one hand, and the Ethereum Foundation, on the other hand.
- 4. Documents sufficient to identify any crypto asset wallet addresses or Bank or Financial Accounts belonging to You or ECH, that received any grant or other source of funding from the Ethereum Foundation, as well as the amount of crypto assets or fiat received.
- 5. Documents sufficient to identify all meetings with the Ethereum Foundation, including any Document related to the meetings identified.
- 6. All Documents and Communications Concerning any grant or other source of funding received from the Ethereum Foundation.
- 7. All Documents and Communications Concerning any work conducted by You or ECH pursuant to any grant or other source of funding received from the Ethereum Foundation.
- 8. All Communications with the Ethereum Foundation, including, but not limited to, Communications with board members, consultants, officers, directors, employees, developers, coders, and others performing work on behalf of these entities, related to The Merge.

DECLARATION OF [Insert Name] CERTIFYING RECORDS OF REGULARLY CONDUCTED BUSINESS ACTIVITY

I, the undersigned, [insert name], pursuant to 28 U.S.C. § 1746, declare that:

- 1. I am employed by [insert entity] as [insert position] and by reason of my position am authorized and qualified to make this declaration. [if possible supply additional information as to how person is qualified to make declaration, e.g., I am custodian of records, I am familiar with the company's recordkeeping practices or systems, etc.]
- 2. I further certify that the documents [attached hereto or submitted herewith] and stamped [insert bates range] are true copies of records that were:
 - (a) made at or near the time of the occurrence of the matters set forth therein, by, or from information transmitted by, a person with knowledge of those matters;
 - (b) kept in the course of regularly conducted business activity; and
 - (c) made by the regularly conducted business activity as a regular practice.

I declare under penalty of perjury that the foregoing is true and correct. Executed on [date].

[Name]	



U.S. Securities and Exchange Commission

Data Delivery Standards

This document describes the technical requirements for paper and electronic document productions to the U.S. Securities and Exchange Commission (SEC). **Any questions or proposed file formats other than those described below must be discussed with the legal and technical staff of the SEC Division of Enforcement prior to submission.**

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	I. Imaged Productions	3
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	VI. Electronic Trade and Bank Records.	
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	IX. Mobile Device Data	į

General Instructions

The current mailing address for all physical productions sent to the SEC is:

ENF-CPU (U.S. Securities & Exchange Commission), 14420 Albemarle Point Place, Suite 102, Chantilly, VA 20151-1750

Electronic files must be produced in their native format, i.e. the format in which they are ordinarily used and maintained during the normal course of business. For example, an MS Excel file must be produced as an MS Excel file rather than an image of a spreadsheet. (Note: An Adobe PDF file is not considered a native file unless the document was initially created as a PDF.)

In the event produced files require the use of proprietary software not commonly found in the workplace, the SEC will explore other format options with the producing party.

The proposed use of file de-duplication methodologies or computer-assisted review or technology-assisted review (TAR) during the processing of documents must be discussed with and approved by the legal and technical staff of the Division of Enforcement (ENF). If your production will be de-duplicated it is vital that you 1) preserve any unique metadata associated with the duplicate files, for example, custodian name and file location and, 2) make that unique metadata part of your production to the SEC.

General requirements for ALL document productions are:

- 1. A cover letter must be included with each production and should include the following information:
 - a. Case number, case name and requesting SEC staff member name
 - b. A list of each piece of media included in the production with its unique production volume number
 - c. A list of custodians, identifying the Bates range for each custodian
 - d. A list of redacted documents and the redaction reason
 - e. The time zone in which the emails were standardized during conversion
 - Whether the production contains native files produced from Mac operating system environments
- Data can be produced on CD, DVD, thumb drive, etc., using the media requiring the least number of deliverables and labeled with the following:
 - a. Case number
 - b. Production date
 - c. Producing party
 - d. Bates range (if applicable)
- All submissions must be organized by **custodian** unless otherwise instructed.
- 4. All document family groups, i.e. email attachments, embedded files, etc., should be produced together and children files should follow parent files sequentially in the Bates numbering.
- All load-ready collections should include only one data load file and one image pointer file.
- All load-ready text must be produced as separate document-level text files.
- All load-ready collections should account for custodians in the custodian field.
- All load-ready collections must provide the extracted contents of any container files to ensure all relevant files are produced as separate records.
- 9. Audio files should be separated from data files if both are included in the production.
- 10. Only alphanumeric characters and the underscore character are permitted in file names and folder names. Special characters are not permitted.
- 11. All electronic productions submitted on media must be produced using industry standard self-extracting encryption software.
- 12. The SEC uses 7zip to access compressed files. Note that the SEC cannot accept files that use AES-256 Jpeg or pkAES-256-Cert Deflate compression methods, even if the files are created with 7zip. If you have any questions or need additional information, please reach out to the requesting SEC staff member.
- 13. Electronic productions of 30 GB or less are strongly encouraged to be submitted via Secure File Transfer. All Secure File Transfers should be sent to the SEC Centralized Production Unit (ENF-CPU@sec.gov) with a CC to the requesting SEC staff member. If you do not have your own Secure File Transfer application, you may reach out to the requesting SEC staff member for a link to the SEC system in order to upload your production. If using the SEC Secure File Transfer system, you will NOT be able to CC individuals outside the SEC on your upload transmission. Note that the SEC cannot accept productions made using file sharing sites such as Google Drive or Microsoft Office 365.
- 14. Productions containing BSA or SAR material must be encrypted. Secure File Transfer applications may be used to produce BSA or SAR material. BSA or SAR material should be segregated and appropriately marked as BSA or SAR, or should be produced separately from other case related records.
- 15. Passwords for electronic documents, files, compressed archives and encrypted media must be provided separately either via email or in a cover letter apart from the media.
- 16. All electronic productions should be produced free of computer viruses.
- 17. Before producing forensically collected images, parties should reach out to the requesting SEC staff member in order to discuss appropriate handling.

- 18. Before producing unique data sets (large sets of relational data, website reconstruction, chat room data, etc.), parties should reach out to the requesting SEC staff member in order to discuss an appropriate production format.
- 19. Additional technical descriptions can be found in the addendum to this document.

Please note that productions sent to the SEC via United States Postal Service are subject to Mail Irradiation, and as a result electronic productions may be damaged.

Delivery Formats

Imaged Productions

The SEC prefers that all scanned paper and electronic file collections be produced in a structured format including industry standard load files, Bates numbered image files, native files and searchable document-level text files. Bates numbers should not contain spaces. Hyphens (-) and underscores () are acceptable.

1. Images

- a. Black and white images must be 300 DPI Group IV single-page TIFF files
- b. Color images must be produced in JPEG format
- c. File names cannot contain embedded spaces or special characters (including the comma)
- d. Folder names cannot contain embedded spaces or special characters (including the comma)
- e. All image files must have a unique file name, i.e. Bates number
- f. Images must be endorsed with sequential Bates numbers in the lower right corner of each image
- The number of image files per folder should not exceed 2,000 files g.
- h. Excel spreadsheets should have a placeholder image named by the Bates number of the file
- AUTOCAD/photograph files should be produced as a single page JPEG file

2. Image Cross-Reference File

The image cross-reference file (LOG or .OPT) links the images to the database records. It should be a comma-delimited file consisting of seven fields per line with a line in the cross-reference file for every image in the database with the following format:

ImageID, VolumeLabel, ImageFilePath, DocumentBreak, FolderBreak, BoxBreak, PageCount

3. Data File

The data file (.DAT) contains all of the fielded information that will be loaded into the database.

- The first line of the .DAT file must be a header row identifying the field names
- The .DAT file must use the following *Concordance*® default delimiters:

Comma ¶ ASCII character (020)

Quote b ASCII character (254)

- c. If the .DAT file is produced in Unicode format it must contain the byte order marker
- d. Date fields should be provided in the format: mm/dd/yyyy
- Date and time fields must be two separate fields
- f. The time zone must be included in all time fields
- If the production includes imaged emails and attachments, the attachment fields must be included to preserve the parent/child relationship between an email and its attachments
- An OCRPATH field must be included to provide the file path and name of the extracted text file on the produced storage media. The text file must be named after the FIRSTBATES. Do not include the text in the .DAT file.
- í. For productions with native files, a LINK field must be included to provide the file path and name of the native file on the produced storage media. The native file must be named after the FIRSTBATES.
- BEGATTACH and ENDATTACH fields must be two separate fields
- k. A complete list of metadata fields is available in Addendum A to this document

Text

Text must be produced as separate document-level text files, not as fields within the .DAT file. The text files must be named per the FIRSTBATES/Image Key and the full path to the text file (OCRPATH) should be included in the .DAT file. Text files may be in either ANSI or Unicode format, however, ALL text files must be in the same format within the same production. Note that productions containing text with foreign characters must produce text files in Unicode format to preserve the foreign characters. Text files must be in a separate folder, and the number of text files per folder should not exceed 2,000 files. There should be no special characters (including commas) in the folder names. For redacted documents, provide the full text for the redacted version.

Linked Native Files

Copies of original email and native file documents/attachments must be included for all electronic productions.

- a. Native file documents must be named per the FIRSTBATES number
- The full path of the native file must be provided in the .DAT file for the LINK field
- The number of native files per folder should not exceed 2,000 files

II. Native File Production without Load Files

With prior approval, native files may be produced without load files. Native file productions should not be Bates numbered. Native files must be produced as they are maintained in the normal course of business and organized by custodian-named file folders. Native email files (.PST or .MBOX) must be separated by custodian.

III. Adobe PDF File Production

With prior approval, Adobe PDF files may be produced in native file format.

- 1. All PDFs must be unitized at the document level, i.e. each PDF must represent a discrete document.
- 2. PDF files should be produced in separate folders named by the custodian. The folders should not contain any special characters (including commas).
- 3. All PDF files must contain embedded text that includes all discernible words within the document, not selected text or image only. This requires all layers of the PDF to be flattened first.
- 4. If PDF files are Bates endorsed, the PDF files must be named by the Bates range.

IV. Audio Files

Audio files from telephone recording systems must be produced in a format that is playable using Microsoft Windows Media PlayerTM. Additionally, the call information (metadata) related to each audio recording MUST be provided. The metadata file must be produced in a delimited text format. Field names must be included in the first row of the text file. The metadata must include, at a minimum, the following fields:

1) Caller Name: Caller's name or account/identification number

2) Originating Number: Caller's phone number3) Called Party Name: Called party's name

4) Terminating Number: Called party's phone number

5) Date: Date of call6) Time: Time of call

7) Filename: Filename of audio file

V. Video Files

Video files must be produced in a format that is playable using Microsoft Windows Media PlayerTM.

VI. Electronic Trade and Bank Records

When producing electronic trade records, bank records, or financial statements, provide the files in one of the following formats:

- 1. MS Excel spreadsheet with header information detailing the field structure. If any special codes exist in the dataset, a separate document must be provided that details all such codes. If details of the field structure do not fit in the header, a separate document must be provided that includes such details.
- 2. Delimited text file with header information detailing the field structure. The preferred delimiter is a vertical bar "[". If any special codes exist in the dataset, a separate document must be provided that details all such codes. If details of the field structure do not fit in the header, a separate document must be provided that includes such details.

VII. Electronic Phone Records

When producing an MS Excel spreadsheet for electronic phone records, provide the files in the following format:

- 1. MS Excel spreadsheet with header information detailing the field structure. If any special codes exist in the dataset, a separate document must be provided that details all such codes. If details of the field structure do not fit in the header, a separate document must be provided that includes such details. Data must be formatted in its native format (i.e. dates in a date format, numbers in an appropriate numerical format, and numbers with leading zeroes as text).
 - a. The metadata that must be included is outlined in **Addendum B** of this document. Each field of data must be loaded into a separate column. For example, Date and Start_Time must be produced in separate columns and not combined into a single column containing both pieces of information. Any fields of data that are provided in addition to those listed in **Addendum B** must also be loaded into separate columns.

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Data Delivery Standards

VIII. Audit Workpapers

The SEC prefers for workpapers to be produced in two formats: (1) With Bates numbers in accordance with the SEC Data Delivery Standards; and (2) in native format via laptop computer, web-based viewing platform, or otherwise, allowing for viewing in the same format and organization as the firm's audit team. Prior to production of workpapers via laptop computer or web-based viewing platform, audit firms should contact the requesting SEC staff member for additional information and written agreements addressing use of software, access, and viewing protocols.

IX. Mobile Device Data

Before producing any mobile device data (including but not limited to text messages and application data) parties should reach out to the requesting SEC staff member in order to discuss the appropriate production format. Productions containing chat data from applications must be identified at the time of production and the following information must be provided to the requesting SEC staff member and the SEC Centralized Production Unit: chat application, chat data format, and how the length of a chat is determined (i.e. set duration of time, number of minutes without messages, etc.)

ADDENDUM A

The metadata of electronic document collections should be extracted and provided in a .DAT file using the field definition and formatting described below:

Field Name	Sample Data	Description
FIRSTBATES	EDC0000001	First Bates number of native file document/email
LASTBATES	EDC0000001	**The LASTBATES field should be populated for single page documents/emails.
ATTACHRANGE	EDC0000001 - EDC0000015	Bates number of the first page of the parent document to the Bates number of the last page of the last attachment "child" document
BEGATTACH	EDC0000001	First Bates number of attachment range
ENDATTACH	EDC0000015	Last Bates number of attachment range
PARENT BATES	EDC0000001	First Bates number of parent document/Email **This PARENT BATES field should be populated in each record representing an attachment "child" document
CHILD BATES	EDC0000002; EDC0000014	First Bates number of "child" attachment(s); can be more than one Bates number listed depending on the number of attachments **The CHILD_BATES field should be populated in each record representing a "parent" document
CUSTODIAN	Smith, John	Email: Mailbox where the email resided Native: Name of the individual or department from whose files the document originated
FROM	John Smith	Email: Sender Native: Author(s) of document **semi-colon should be used to separate multiple entries
ТО	Coffman, Janice; LeeW [mailto:LeeW@MSN.com]	Recipient(s) **semi-colon should be used to separate multiple entries
CC	Frank Thompson [mailto: frank Thompson@cdt.com]	Carbon copy recipient(s) **semi-colon should be used to separate multiple entries
BCC	John Cain	Blind carbon copy recipient(s) **semi-colon should be used to separate multiple entries
SUBJECT	Board Meeting Minutes	Email: Subject line of the email Native: Title of document (if available)
FILE_NAME	BoardMeetingMinutes.docx	Native: Name of the original native file, including extension
DATE_SENT	10/12/2010	Email: Date the email was sent Native: (empty)
TIME_SENT/TIME _ZONE	07:05 PM GMT	Email: Time the email was sent/ Time zone in which the emails were standardized during conversion. Native: (empty) **This data must be a separate field and cannot be combined with the DATE SENT field

TIME_ZONE	GMT	The time zone in which the emails were standardized
		during conversion.
		Email: Time zone
		Native: (empty)
LINK	D:\001\ EDC0000001.msg	Hyperlink to the email or native file document
	5	**The linked file must be named per the
		FIRSTBATES number
MIME TYPE	application/msword	The content type of an email or native file document
	approacion in word	as identified/extracted from the header
FILE EXTEN	MSG	The file type extension representing the email or
THE EXTEN	Med	native file document; will vary depending on the
		format
AUTHOR	John Smith	Email: (empty)
AUTHOR	John Shiat	Native: Author of the document
LAST ALITHOD	Jane Doe	
LAST_AUTHOR	Jane Doe	Email: (empty)
DATE CREATES	10/10/2010	Native: Last Author of the document
DATE_CREATED	10/10/2010	Email: (empty)
TILLE CONTACTO	10.05.434.0347	Native: Date the document was created
TIME_CREATED/T	10:25 AM GMT	Email: (empty)
IME ZONE		Native: Time the document was created including time
		zone
		**This data must be a separate field and cannot be
		combined with the DATE_CREATED field
DATE_MOD	10/12/2010	Email: (empty)
_		Native: Date the document was last modified
TIME_MOD/TIME	07:00 PM GMT	Email: (empty)
ZONE		Native: Time the document was last modified including
		the time zone
		**This data must be a separate field and cannot be
		combined with the DATE_MOD field
DATE ACCEDED	10/12/2010	_
DATE_ACCESSD	10/12/2010	Email: (empty)
TIME LOSSON	07.00 PM (()) (T	Native: Date the document was last accessed
TIME_ACCESSD/T	07:00 PM GMT	Email: (empty)
IME ZONE		Native: Time the document was last accessed including
		the time zone
		**This data must be a separate field and cannot be
		combined with the DATE_ACCESSD field
PRINTED_DATE	10/12/2010	Email: (empty)
TRIITIDE_DITTE	10/12/2010	Native: Date the document was last printed
FILE SIZE	5,952	Size of native file document/email in KB
PGCOUNT	1	Number of pages in native file document/email
PATH	J:\Shared\SmithJ\October	Email: (empty)
IVIU		Native: Path where native file document was stored
	Agenda.doc	
DITCH COATH	n (r.) (r.)	including original file name.
INTFILEPATH	Personal Folders\Deleted	Email: original location of email including origina
	Items\Board Meeting	file name.
	Minutes.msg	Native: (empty)
INTMSGID	<000805c2c71b\$75977050\$cb	Email: Unique Message ID
	8306d1@MSN>	Native: (empty)

Case 1:24-cv-01858-ACR Document 26-1 Filed 02/04/25 Page 376 of 933 Data Delivery Standards

HEADER	Return-Path: <example_from@dc.edu> X-SpamCatcher-Score:1[X] Received:from[136.167.40.119] (HELO dc.edu) by fe3.dc.edu (CommuniGate Pro SMTP4.1.8) with ESMTP-TLS id 61258719 for example_to@mail.dc.edu; Mon, 23 Aug 2004 11:40:10 - 0400 Message-ID: <4129F3CA.2020509@dc.edu> Date: Mon, 23 Aug 2005 11:40:36 -400 From: Taylor Evans <example_from@dc.edu> User-Agent:Mozilla/5.0 (Windows;U; Windows NT 5.1; en-US;rv:1.0.1) Gecko/20020823 Netscape/7.0 X-Accept-Language:en-us,en MIME-Version:1.0 To: Jon Smith <example_to@mail.dc.edu> Subject:Business Development Meeting Content-Type: text/plain;charset-us-ascii; format=flowed Content-Transfer-Encoding:7bit</example_to@mail.dc.edu></example_from@dc.edu></example_from@dc.edu>	Email: The email header information Native: (empty)
SHA256	AD6128C5CA40164AF71A1E FC800E12D2F195CE07BB5F8 C813B0888A2DDE6A06F	SHA-256 hash value of the document.
OCRPATH	TEXT/001/EDC0000001.txt	Path to extracted text of the native file

Sample Image Cross-Reference File:

IMG0000001,,E:\001\IMG0000001.TIF,Y,,,
IMG0000002,,E:\001\IMG0000002.TIF,,,,
IMG0000003,,E:\001\IMG0000003.TIF,,,,
IMG0000004,,E:\001\IMG0000005.TIF,Y,,,
IMG0000005,,E:\001\IMG0000005.TIF,Y,,,
IMG0000006,,E:\001\IMG0000006.TIF,,,,,

ADDENDUM B

For Electronic Phone Records, include the following fields in separate columns: For Calls:

- 1) Account Number
- 2) Connection Date Date the call was received or made
- 3) Connection Time Time call was received or made
- 4) Seizure Time Time it took for the call to be placed in seconds
- 5) Originating Number Phone that placed the call
- 6) Terminating Number Phone that received the call
- 7) Elapsed Time The length of time the call lasted, preferably in seconds
- 8) End Time The time the call ended
- 9) Number Dialed Actual number dialed
- 10) IMEI Originating Unique id to phone used to make call
- 11) IMEI Terminating- Unique id to phone used to receive call
- 12) IMSI Originating Unique id to phone used to make call
- 13) IMSI Terminating- Unique id to phone used to receive call
- 14) Call Codes Identify call direction or other routing information
- 15) Time Zone Time Zone in which the call was received or placed, if applicable

For Text messages:

- 1) Account Number
- Connection Date Date the text was received or made
- 3) Connection Time Time text was received or made
- 4) Originating Number Who placed the text
- 5) Terminating Number Who received the text
- 6) IMEI Originating Unique id to phone used to make text
- 7) IMEI Terminating Unique id to phone used to receive text
- 8) IMSI Originating Unique id to phone used to make text
- 9) IMSI Terminating- Unique id to phone used to receive text
- 10) Text Code Identify text direction, or other text routing information
- 11) Text Type Code Type of text message (sent SMS, MMS, or other)
- 12) Time Zone Time Zone in which the call was received or placed, if applicable

For Mobile Data Usage:

- 1) Account Number
- 2) Connection Date Date the data was received or made
- 3) Connection Time Time data was received or made
- 4) Originating number Number that used data
- 5) IMEI Originating Unique id of phone that used data
- 6) IMSI Originating Unique id of phone that used data
- 7) Data or Data codes Identify data direction, or other data routing information
- 8) Time Zone Time Zone in which the call was received or placed, if applicable

SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549

Supplemental Information for Persons Requested to Supply Information Voluntarily or Directed to Supply Information Pursuant to a Commission Subpoena

A. False Statements and Documents

Section 1001 of Title 18 of the United States Code provides that fines and terms of imprisonment may be imposed upon:

[W]hoever, in any matter within the jurisdiction of the executive, legislative, or judicial branch of the Government of the United States, knowingly and willfully--

- (1) falsifies, conceals, or covers up by any trick, scheme, or device a material fact;
- (2) makes any materially false, fictitious, or fraudulent statement or representation; or
- (3) makes or uses any false writing or document knowing the same to contain any materially false, fictitious, or fraudulent statement or entry.

Section 1519 of Title 18 of the United States Code provides that fines and terms of imprisonment may be imposed upon:

Whoever knowingly alters, destroys, mutilates, conceals, covers up, falsifies, or makes a false entry in any record, document, or tangible object with the intent to impede, obstruct, or influence the investigation or proper administration of any matter within the jurisdiction of any department or agency of the United States . . ., or in relation to or contemplation of any such matter.

B. Testimony

If your testimony is taken, you should be aware of the following:

- 1. Record. Your testimony will be transcribed by a reporter. If you desire to go off the record, please indicate this to the Commission employee taking your testimony, who will determine whether to grant your request. The reporter will not go off the record at your, or your counsel's, direction.
- 2. Counsel. You have the right to be accompanied, represented and advised by counsel of your choice. Your counsel may advise you before, during and after your testimony; question you briefly at the conclusion of your testimony to clarify any of the answers you give during testimony; and make summary notes during your testimony solely for your use. If you are accompanied by counsel, you may consult privately.

If you are not accompanied by counsel, please advise the Commission employee taking your testimony if, during the testimony, you desire to be accompanied, represented and advised by counsel. Your testimony will be adjourned once to afford you the opportunity to arrange to be so accompanied, represented or advised.

You may be represented by counsel who also represents other persons involved in the Commission's investigation. This multiple representation, however, presents a potential conflict of interest if one client's interests are or may be adverse to another's. If you are represented by counsel who also represents other persons involved in the investigation, the Commission will assume that you and counsel have discussed and resolved all issues concerning possible conflicts of interest. The choice of counsel, and the responsibility for that choice, is yours.

3. Transcript Availability. Rule 6 of the Commission's Rules Relating to Investigations, 17 CFR 203.6, states:

A person who has submitted documentary evidence or testimony in a formal investigative proceeding shall be entitled, upon written request, to procure a copy of his documentary evidence or a transcript of his testimony on payment of the appropriate fees: *Provided, however*, That in a nonpublic formal investigative proceeding the Commission may for good cause deny such request. In any event, any witness, upon proper identification, shall have the right to inspect the official transcript of the witness' own testimony.

If you wish to purchase a copy of the transcript of your testimony, the reporter will provide you with a copy of the appropriate form. Persons requested to supply information voluntarily will be allowed the rights provided by this rule.

4. Perjury. Section 1621 of Title 18 of the United States Code provides that fines and terms of imprisonment may be imposed upon:

Whoever--

- (1) having taken an oath before a competent tribunal, officer, or person, in any case in which a law of the United States authorizes an oath to be administered, that he will testify, declare, depose, or certify truly, or that any written testimony, declaration, deposition, or certificate by him subscribed, is true, willfully and contrary to such oath states or subscribes any material matter which he does not believe to be true; or
- (2) in any declaration, certificate, verification, or statement under penalty of periury as permitted under section 1746 of title 28. United States Code, willfully subscribes as true any material matter which he does not believe to be true.
- 5. Fifth Amendment and Voluntary Testimony. Information you give may be used against you in any federal, state, local or foreign administrative, civil or criminal proceeding brought by the Commission or any other agency.

You may refuse, in accordance with the rights guaranteed to you by the Fifth Amendment to the Constitution of the United States, to give any information that may tend to incriminate you.

If your testimony is not pursuant to subpoena, your appearance to testify is voluntary, you need not answer any question, and you may leave whenever you wish. Your cooperation is, however, appreciated.

Formal Order Availability. If the Commission has issued a formal order of investigation, it will be shown to you during your testimony, at your request. If you desire a copy of the formal order, please make your request in writing.

C. Submissions and Settlements

Rule 5(c) of the Commission's Rules on Informal and Other Procedures, 17 CFR 202.5(c), states:

Persons who become involved in . . . investigations may, on their own initiative, submit a written statement to the Commission setting forth their interests and position in regard to the subject matter of the investigation. Upon request, the staff, in its discretion, may advise such persons of the general nature of the investigation, including the indicated violations as they pertain to them, and the amount of time that may be available for preparing and submitting a statement prior to the presentation of a staff recommendation to the Commission for the commencement of an administrative or injunction proceeding. Submissions by interested persons should be forwarded to the appropriate Division Director or Regional Director with a copy to the staff members conducting the investigation and should be clearly referenced to the specific investigation to which they relate. In the event a recommendation for the commencement of an enforcement proceeding is presented by the staff, any submissions by interested persons will be forwarded to the Commission in conjunction with the staff memorandum.

The staff of the Commission routinely seeks to introduce submissions made pursuant to Rule 5(c) as evidence in Commission enforcement proceedings, when the staff deems appropriate.

Rule 5(f) of the Commission's Rules on Informal and Other Procedures, 17 CFR 202.5(f), states:

In the course of the Commission's investigations, civil lawsuits, and administrative proceedings, the staff, with appropriate authorization, may discuss with persons involved the disposition of such matters by consent, by settlement, or in some other manner. It is the policy of the Commission, however, that the disposition of any such matter may not, expressly or impliedly, extend to any criminal charges that have been, or may be, brought against any such person or any recommendation with respect thereto. Accordingly, any person involved in an enforcement matter before the Commission who consents, or agrees to consent, to any judgment or order does so solely for the purpose of resolving the claims against him in that investigative, civil, or administrative matter and not for the purpose of resolving any criminal charges that have been, or might be, brought against him. This policy reflects the fact that neither the Commission nor its staff has the authority or responsibility for instituting, conducting, settling, or otherwise disposing of criminal proceedings. That authority and responsibility are vested in the Attorney General and representatives of the Department of Justice.

D. Freedom of Information Act

The Freedom of Information Act, 5 U.S.C. 552 (the "FOIA"), generally provides for disclosure of information to the public. Rule 83 of the Commission's Rules on Information and Requests, 17 CFR 200.83, provides a procedure by which a person can make a written request that information submitted to the Commission not be disclosed under the FOIA. That rule states that no determination as to the validity of such a request will be made until a request for disclosure of the information under the FOIA is received. Accordingly, no response to a request that information not be disclosed under the FOIA is necessary or will be given until a request for disclosure under the FOIA is received. If you desire an acknowledgment of receipt of your written request that information not be disclosed under the FOIA, please provide a duplicate request, together with a stamped, self-addressed envelope.

E. Authority for Solicitation of Information

Persons Directed to Supply Information Pursuant to Subpoena. The authority for requiring production of information is set forth in the subpoena. Disclosure of the information to the Commission is mandatory, subject to the valid assertion of any legal right or privilege you might have.

Persons Requested to Supply Information Voluntarily. One or more of the following provisions authorizes the Commission to solicit the information requested: Sections 19 and/or 20 of the Securities Act of 1933; Section 21 of the Securities Exchange Act of 1934; Section 321 of the Trust Indenture Act of 1939; Section 42 of the Investment Company Act of 1940; Section 209 of the Investment Advisers Act of 1940; and 17 CFR 202.5. Disclosure of the requested information to the Commission is voluntary on your part.

F. Effect of Not Supplying Information

Persons Directed to Supply Information Pursuant to Subpoena. If you fail to comply with the subpoena, the Commission may seek a court order requiring you to do so. If such an order is obtained and you thereafter fail to supply the information, you may be subject to civil and/or criminal sanctions for contempt of court. In addition, Section 21(c) of the Securities Exchange Act of 1934, Section 42(c) of the Investment Company Act of 1940, and Section 209(c) of the Investment Advisers Act of 1940 provide that fines and terms of imprisonment may be imposed upon any person who shall, without just cause, fail or refuse to attend and testify or to answer any lawful inquiry, or to produce books, papers, correspondence, memoranda, and other records in compliance with the subpoena.

Persons Requested to Supply Information Voluntarily. There are no direct sanctions and thus no direct effects for failing to provide all or any part of the requested information.

G. Principal Uses of Information

The Commission's principal purpose in soliciting the information is to gather facts in order to determine whether any person has violated, is violating, or is about to violate any provision of the federal securities laws or rules for which the Commission has enforcement authority, such as rules of securities exchanges and the rules of the Municipal Securities Rulemaking Board. Facts developed may, however, constitute violations of other laws or rules. Information provided may be used in Commission and other agency enforcement proceedings. Unless the Commission or its staff explicitly agrees to the contrary in writing, you should not assume that the Commission or its staff acquiesces in, accedes to, or concurs or agrees with, any position, condition, request, reservation of right, understanding, or any other statement that purports, or may be deemed, to be or to reflect a limitation upon the Commission's receipt, use, disposition, transfer, or retention, in accordance with applicable law, of information provided.

H. Routine Uses of Information

The Commission often makes its files available to other governmental agencies, particularly United States Attorneys and state prosecutors. There is a likelihood that information supplied by you will be made available to such agencies where appropriate. Whether or not the Commission makes its files available to other governmental agencies is, in general, a confidential matter between the Commission and such other governmental agencies.

Set forth below is a list of the routine uses which may be made of the information furnished.

- 1. To appropriate agencies, entities, and persons when (1) the SEC suspects or has confirmed that there has been a breach of the system of records, (2) the SEC has determined that as a result of the suspected or confirmed breach there is a risk of harm to individuals, the SEC (including its information systems, programs, and operations), the Federal Government, or national security; and (3) the disclosure made to such agencies, entities, and persons is reasonably necessary to assist in connection with the SEC's efforts to respond to the suspected or confirmed breach or to prevent, minimize, or remedy such harm.
- 2. To other Federal, state, local, or foreign law enforcement agencies; securities self-regulatory organizations; and foreign financial regulatory authorities to assist in or coordinate regulatory or law enforcement activities with the SEC.
- 3. To national securities exchanges and national securities associations that are registered with the SEC, the Municipal Securities Rulemaking Board; the Securities Investor Protection Corporation; the Public Company Accounting Oversight Board; the Federal banking authorities, including, but not limited to, the Board of Governors of the Federal Reserve System, the Comptroller of the Currency, and the Federal Deposit Insurance Corporation; state securities regulatory agencies or organizations; or regulatory authorities of a foreign government in connection with their regulatory or enforcement responsibilities.
- 4. By SEC personnel for purposes of investigating possible violations of, or to conduct investigations authorized by, the Federal securities laws.
- 5. In any proceeding where the Federal securities laws are in issue or in which the Commission, or past or present members of its staff, is a party or otherwise involved in an official capacity.

- 6. In connection with proceedings by the Commission pursuant to Rule 102(e) of its Rules of Practice, 17 CFR 201.102(e).
- 7. To a bar association, state accountancy board, or other Federal, state, local, or foreign licensing or oversight authority; or professional association or self-regulatory authority to the extent that it performs similar functions (including the Public Company Accounting Oversight Board) for investigations or possible disciplinary action.
- 8. To a Federal, state, local, tribal, foreign, or international agency, if necessary to obtain information relevant to the SEC's decision concerning the hiring or retention of an employee; the issuance of a security clearance; the letting of a contract: or the issuance of a license, grant, or other benefit.
- 9. To a Federal, state, local, tribal, foreign, or international agency in response to its request for information concerning the hiring or retention of an employee; the issuance of a security clearance; the reporting of an investigation of an employee; the letting of a contract; or the issuance of a license, grant, or other benefit by the requesting agency, to the extent that the information is relevant and necessary to the requesting agency's decision on the matter.
- 10. To produce summary descriptive statistics and analytical studies, as a data source for management information, in support of the function for which the records are collected and maintained or for related personnel management functions or manpower studies; may also be used to respond to general requests for statistical information (without personal identification of individuals) under the Freedom of Information Act.
- 11. To any trustee, receiver, master, special counsel, or other individual or entity that is appointed by a court of competent jurisdiction, or as a result of an agreement between the parties in connection with litigation or administrative proceedings involving allegations of violations of the Federal securities laws (as defined in section 3(a)(47) of the Securities Exchange Act of 1934, 15 U.S.C. 78c(a)(47)) or pursuant to the Commission's Rules of Practice, 17 CFR 201.100 through 900 or the Commission's Rules of Fair Fund and Disgorgement Plans, 17 CFR 201.1100 through 1106, or otherwise, where such trustee, receiver, master, special counsel, or other individual or entity is specifically designated to perform particular functions with respect to, or as a result of, the pending action or proceeding or in connection with the administration and enforcement by the Commission of the Federal securities laws or the Commission's Rules of Practice or the Rules of Fair Fund and Disgorgement Plans.
- 12. To any persons during the course of any inquiry, examination, or investigation conducted by the SEC's staff, or in connection with civil litigation, if the staff has reason to believe that the person to whom the record is disclosed may have further information about the matters related therein, and those matters appeared to be relevant at the time to the subject matter of the inquiry.
- 13. To interns, grantees, experts, contractors, and others who have been engaged by the Commission to assist in the performance of a service related to this system of records and who need access to the records for the purpose of assisting the Commission in the efficient administration of its programs, including by performing clerical, stenographic, or data analysis functions, or by reproduction of records by electronic or other means. Recipients of these records shall be required to comply with the requirements of the Privacy Act of 1974, as amended, 5 U.S.C. 552a.
- 14. In reports published by the Commission pursuant to authority granted in the Federal securities laws (as such term is defined in section 3(a)(47) of the Securities Exchange Act of 1934, 15 U.S.C. 78c(a)(47)), which authority shall include, but not be limited to, section 21(a) of the Securities Exchange Act of 1934, 15 U.S.C. 78u(a)).
- 15. To members of advisory committees that are created by the Commission or by Congress to render advice and recommendations to the Commission or to Congress, to be used solely in connection with their official designated functions.
- 16. To any person who is or has agreed to be subject to the Commission's Rules of Conduct, 17 CFR 200.735-1 through 200.735-18, and who assists in the investigation by the Commission of possible violations of the Federal securities laws (as such term is defined in section 3(a)(47) of the Securities Exchange Act of 1934, 15 U.S.C. 78c(a)(47)), in the preparation or conduct of enforcement actions brought by the Commission for such violations, or otherwise in connection with the Commission's enforcement or regulatory functions under the Federal securities laws.
- 17. To a Congressional office from the record of an individual in response to an inquiry from the Congressional office made at the request of that individual.
- 18. To members of Congress, the press, and the public in response to inquiries relating to particular Registrants and their activities, and other matters under the Commission's jurisdiction.
- 19. To prepare and publish information relating to violations of the Federal securities laws as provided in 15 U.S.C. 78c(a)(47)), as amended.
- 20. To respond to subpoenas in any litigation or other proceeding.

- 21. To a trustee in bankruptcy.
- 22. To any governmental agency, governmental or private collection agent, consumer reporting agency or commercial reporting agency, governmental or private employer of a debtor, or any other person, for collection, including collection by administrative offset, Federal salary offset, tax refund offset, or administrative wage garnishment, of amounts owed as a result of Commission civil or administrative proceedings.
- 23. To another Federal agency or Federal entity, when the SEC determines that information from this system of records is reasonably necessary to assist the recipient agency or entity in (1) responding to a suspected or confirmed breach or (2) preventing, minimizing, or remedying the risk of harm to individuals, the recipient agency or entity (including its information systems, programs, and operations), the Federal Government, or national security, resulting from a suspected or confirmed breach.

* * * * *

Small Business Owners: The SEC always welcomes comments on how it can better assist small businesses. If you would like more information, or have questions or comments about federal securities regulations as they affect small businesses, please contact the Office of Small Business Policy, in the SEC's Division of Corporation Finance, at 202-551-3460. If you would prefer to comment to someone outside of the SEC, you can contact the Small Business Regulatory Enforcement Ombudsman at http://www.sba.gov/ombudsman or toll free at 888-REG-FAIR. The Ombudsman's office receives comments from small businesses and annually evaluates federal agency enforcement activities for their responsiveness to the special needs of small business.



UNITED STATES SECURITIES AND EXCHANGE COMMISSION

100 PEARL STREET, SUITE 20-100 NEW YORK, NY 10004-2616

DIVISION OF ENFORCEMENT

March 12, 2024

VIA UPS

(b)(6); (b)(7)(C)	

Re: C-08950

Dear (b)(6); (b)(7)(C)

The enclosed subpoena has been issued pursuant to a formal order entered by the United States Securities and Exchange Commission. Pursuant to Rule 8 of the United States Securities and Exchange Commission's Rules Relating to Investigations, 17 C.F.R. § 203.8, I have enclosed a subpoena for documents issued to you, in connection with the above-referenced investigation.

The enclosed subpoena requires you to produce documents to the SEC by March 26, 2024. Please deliver the materials to:

ENF-CPU U.S. Securities and Exchange Commission 14420 Albemarle Point Place, Suite 102 Chantilly, VA 20151-1750

For smaller electronic productions under 10MB in size, the materials may be emailed to the following email address: <u>ENF-CPU@sec.gov</u>.

Please also provide a duplicate copy of any document production cover letters to me at (b)(6): Esec.gov. Additionally, please include the SEC matter number and the name of the requesting attorney when responding.

Please carefully read the subpoena attachment, which contains, among other things, important instructions related to the manner of producing documents. In particular, if you prefer to send us copies of original documents, the staff requests that you scan and produce hard copy documents, as well as electronic documents, in an electronic format consistent with the SEC Data Delivery Standards attached hereto. All electronic documents responsive to

the subpoena, including all metadata, should also be produced in their native software **format**. If you have any questions concerning the production of documents in an electronic format, please contact me as soon as possible and in any event before producing documents. For security reasons, we strongly encourage the encryption of sensitive documents before production.

In your cover letter(s) accompanying the production of responsive documents, please enclose a list briefly describing each item you send. The list should identify the paragraph(s) in the subpoena attachment to which each item responds. Please also state in the cover letter(s) whether you believe you have met the obligations of the subpoena by searching carefully and thoroughly for everything called for by the subpoena, and sending it all to us.

A copy of the subpoena should be included with the documents that are produced. Correspondence should reference case number, case name and requesting SEC staff member.

Passwords for documents, files, compressed archives, and encrypted media should be provided separately either via email addressed to ENF-CPU@sec.gov, or in a separate cover letter mailed separately from the data. Password correspondence should reference case number, case name and requesting SEC staff member.

Please also provide a narrative description describing what was done to identify and collect documents responsive to the subpoena. At a minimum, the narrative should describe:

- who searched for documents;
- who reviewed documents found to determine whether they were responsive;
- which custodians were searched;
- what sources were searched (e.g., computer files, CDs, DVDs, thumb drives, flash drives, online storage media, hard copy files, diaries, datebooks, planners, filing cabinets, storage facilities, home offices, work offices, voice mails, home email, webmail, work email, backup tapes or other media);
- what search terms, if any, were employed to identify responsive documents;
- what firms and/or persons, if any, assisted in analyzing the data collected;
- what third parties, if any, were contacted to obtain responsive documents (e.g., phone companies for phone records, brokerage firms for brokerage records); and
- where the original electronic and hardcopy documents are maintained and by whom.

In addition, for any documents that qualify as records of regularly conducted activities under Federal Rule of Evidence 902(11), please complete a business records certification (a sample of which is enclosed) and return it with the document production. Execution of this certification may allow the Commission to introduce the documents provided by you in any subsequent judicial proceeding, without requiring your testimony.

Enclosed is a copy of the Commission's Form 1662, entitled "Supplemental Information for Persons Requested to Supply Information Voluntarily or Directed to Supply Information Pursuant to a Commission Subpoena." This form explains how we may use the information that you provide to the Commission and has other important information for you.

This investigation is a non-public, fact-finding inquiry. We are trying to determine whether there have been any violations of the federal securities laws. The investigation does not mean that we have concluded that anyone has violated the law. Also, the investigation does not mean that we have a negative opinion of any person, entity, or security.

If you hav	ve any questions	or would like	to discuss this	matter, you	may contact	me at
(b)(6); (b)(7)(C)]			·		

Sincerely	y,
(b)(6); (b)(7)(C)
Division of Enforcement	
(b)(6); (b)(7)((C)
(b)(6); (b)(7)(C)	sec.gov

Enclosures: Subpoena and Attachment

SEC Data Delivery Standards

SEC Form 1662

Business Records Certification



SUBPOENA

UNITED STATES OF AMERICA SECURITIES AND EXCHANGE COMMISSION

C-08950

To:	(b)(6); (b)(7)(C)
\boxtimes	YOU MUST PRODUCE everything specified in the Attachment to this subpoena to officers of the Securities and Exchange Commission, at the place, date and time specified below:
	ENF-CPU, U.S. Securities and Exchange Commission, 14420 Albemarle Point Place, Suite 102 Chantilly, VA 20151-1750, no later than March 26, 2024
	YOU MUST TESTIFY before officers of the Securities and Exchange Commission, at the place, date and time specified below:
	FEDERAL LAW REQUIRES YOU TO COMPLY WITH THIS SUBPOENA. If you do not comply with this subpoena, the SEC may bring an action in Federal Court to enforce this subpoena. Failure to comply with a court order enforcing this subpoena may result in the court imposing a fine, imprisonment, or both.
By:	(b)(6); (b)(7)(C) Date: March 12, 2024
	U.S. Securities and Exchange Commission New York Regional Office 100 Pearl Street, Suite 20-100 New York, NY 10004-2616

I am an officer of the U.S. Securities and Exchange Commission authorized to issue subpoenas in this matter. The Securities and Exchange Commission has issued a formal order authorizing this investigation under Section 20(a) of the Securities Act of 1933.

NOTICE TO WITNESS: If you claim a witness fee or mileage, submit this subpoena with the claim voucher.

SUBPOENA ATTACHMENT FOR	(b)(6); (b)(7)(C)
C-08950	

March 12, 2024

Definitions

As used in this subpoena, the words and phrases listed below shall have the following meanings:

- 1. "Ethereum Cat Herders" or "ECH" means the group operating under the name "Ethereum Cat Herders", including parents, subsidiaries, affiliates, predecessors, successors, officers, directors, employees, agents, general partners, limited partners, partnerships and aliases, code names, or trade or business names used by any of the foregoing.
- 2. "Document" shall include, but is not limited to, any written, printed, or typed matter including, but not limited to all drafts and copies bearing notations or marks not found in the original, letters and correspondence, interoffice communications, slips, tickets, records, worksheets, financial records, accounting documents, bookkeeping documents, memoranda, reports, manuals, telephone logs, facsimiles, messages of any type, telephone messages, text messages, voice mails, tape recordings, notices, instructions, minutes, summaries, notes of meetings, file folder markings, and any other organizational indicia, purchase orders, information recorded by photographic process, including microfilm and microfiche, computer printouts, spreadsheets, and other electronically stored information, including but not limited to writings, drawings, graphs, charts, photographs, sound recordings, images, and other data or data compilations that are stored in any medium from which information can be retrieved, obtained, manipulated, or translated.
- 3. "Communication" means any correspondence, contact, discussion, e-mail, instant message, or any other kind of oral or written exchange or transmission of information (in the form of facts, ideas, inquiries, or otherwise) and any response thereto between two or more Persons or entities, including, without limitation, all telephone conversations, face-to-face meetings or conversations, internal or external discussions, or exchanges of a Document or Documents.
- 4. "Concerning" means directly or indirectly, in whole or in part, describing, constituting, evidencing, recording, evaluating, substantiating, concerning, referring to, alluding to, in connection with, commenting on, relating to, regarding, discussing, showing, describing, analyzing or reflecting.
- 5. An "Agreement" means any actual or contemplated (i) written or oral Agreement; (ii) term or provision of such Agreement; or (iii) amendment of any nature or termination of such Agreement. A request for any Agreement among or between specified parties includes a request for all Documents Concerning (i) any actual or contemplated Agreement among or between such parties, whether or not such Agreement included any other Person; (ii) the drafting or negotiation of any such Agreement; (iii) any actual or

- contemplated demand, request or application for any such Agreement, and any response thereto; and (iv) any actual or contemplated objection or refusal to enter into any such Agreement, and any response thereto.
- 6. The "Ethereum Foundation" means the entity or business doing business under the name Ethereum Foundation, including, but not limited to, ethereum.org, the Ethereum Support Program, and parents, subsidiaries, affiliates, predecessors, successors, officers, directors, employees, agents, general partners, limited partners, partnerships and aliases, owners, code names, or trade or business names used by any of the foregoing.
- 7. "EIP" means Ethereum Improvement Proposal.
- 8. "The Merge" or "Ethereum 2.0" means the transition by the Ethereum blockchain of its consensus mechanism from proof-of-work to proof-of-stake.
- 9. "Bank or Financial Account" means the domestic or foreign bank, brokerage, or financial accounts held, controlled, or used by you or by other people on your behalf. This includes, but is not limited to, accounts that contain currency, securities, or crypto assets.
- 10. The term "you" and "your" means the Person to whom or entity to which this subpoena was issued.
- 11. To the extent necessary to bring within the scope of this this subpoena any information or Documents that might otherwise be construed to be outside its scope:
 - a. the word "or" means "and/or";
 - b. the word "and" means "and/or";
 - c. the functional words "each," "every" "any" and "all" shall each be deemed to include each of the other functional words;
 - d. the masculine gender includes the female gender and the female gender includes the masculine gender; and
 - e. the singular includes the plural and the plural includes the singular.

Instructions

- 1. Unless otherwise specified, this subpoena calls for production of the original Documents and all copies and drafts of same. Documents responsive to this subpoena may be in electronic or paper form. Electronic Documents such as email should be produced in accordance with the attached Document entitled SEC Data Delivery Standards. All responsive electronic Documents, including all metadata, should also be produced in their native software format.
- 2. For Documents in paper format, you may send the originals, or, if you prefer, you may send copies of the originals. The Commission cannot reimburse you for the copying costs. If you are sending copies, the staff requests that you scan (rather than photocopy) hard copy Documents and produce them in an electronic format consistent with the SEC

Data Delivery Standards. Alternatively, you may send us photocopies of the Documents in paper format. If you choose to send copies, you <u>must</u> secure and retain the originals and store them in a safe place. The staff may later request or require that you produce the originals.

- 3. Whether you scan or photocopy Documents, the copies must be identical to the originals, including even faint marks or print. Also, please note that if copies of a Document differ in any way, they are considered separate Documents and you must send each one. For example, if you have two copies of the same letter, but only one of them has handwritten notes on it, you must send both the clean copy and the one with notes.
- 4. In producing a photocopy of an original Document that contains post-it(s), notation flag(s), or other removable markings or attachments which may conceal all or a portion of the markings contained in the original Document, photocopies of the original Document both with and without the relevant post-it(s), notation flag(s), or removable markings or attachments should be produced.
- 5. Documents should be produced as they are kept in the ordinary course of business or be organized and labeled to correspond with the categories in this request. In that regard, Documents should be produced in a unitized manner, i.e., delineated with staples or paper clips to identify the Document boundaries.
- 6. Documents should be labeled with sequential numbering (bates-stamped).
- 7. You must produce all Documents created during, or Concerning, the time period **July 1**, **2018 to the present**, unless otherwise specified.
- 8. The scope of any given request should not be limited or narrowed based on the fact that it calls for Documents that are responsive to another request.
- 9. You are not required to produce exact duplicates of any Documents that have been previously produced to the Securities and Exchange Commission staff in connection with this matter. If you are not producing Documents based upon a prior production, please identify the responsive Documents that were previously produced.
- 10. For any Documents that qualify as records of regularly conducted activities under Federal Rule of Evidence 902(11), please complete a business records certification (a sample of which is enclosed) and return it with the Document production.
- 11. This subpoena covers all Documents in or subject to your possession, custody or control, including all Documents that are not in your immediate possession but that you have the effective ability to obtain, that are responsive, in whole or in part, to any of the individual requests set forth below. If, for any reason including a claim of attorney-client privilege you do not produce something called for by the request, you should submit a list of what you are not producing. The list should describe each item separately, noting:

- a. its author(s);
- b. its date;
- c. its subject matter;
- d. the name of the Person who has the item now, or the last Person known to have it;
- e. the names of everyone who ever had the item or a copy of it, and the names of everyone who was told the item's contents;
- f. the basis upon which you are not producing the responsive Document;
- g. the specific request in the subpoena to which the Document relates;
- h. the attorney(s) and the client(s) involved; and
- i. in the case of the work product doctrine, the litigation for which the Document was prepared in anticipation.
- 12. If Documents responsive to this subpoena no longer exist because they have been lost, discarded, or otherwise destroyed, you should identify such Documents and give the date on which they were lost, discarded or destroyed.

Documents to be Produced

- 1. Documents sufficient to identify former and current ECH members, and their titles, if any.
- 2. All Documents and Communications Concerning (a) The Merge; (b) EIP-1559; (c) EIP-2982; (d) EIP-3675; and (e) EIP-4895.
- 3. All Agreements between you or ECH, on the one hand, and the Ethereum Foundation, on the other hand.
- 4. Documents sufficient to identify any crypto asset wallet addresses or Bank or Financial Accounts belonging to You or ECH, that received any grant or other source of funding from the Ethereum Foundation, as well as the amount of crypto assets or fiat received.
- 5. Documents sufficient to identify all meetings with the Ethereum Foundation, including any Document related to the meetings identified.
- 6. All Documents and Communications Concerning any grant or other source of funding received from the Ethereum Foundation.
- 7. All Documents and Communications Concerning any work conducted by You or ECH pursuant to any grant or other source of funding received from the Ethereum Foundation.
- 8. All Communications with the Ethereum Foundation, including, but not limited to, Communications with board members, consultants, officers, directors, employees, developers, coders, and others performing work on behalf of these entities, related to The Merge.

DECLARATION OF [Insert Name] CERTIFYING RECORDS OF REGULARLY CONDUCTED BUSINESS ACTIVITY

I, the undersigned, [insert name], pursuant to 28 U.S.C. § 1746, declare that:

- 1. I am employed by [insert entity] as [insert position] and by reason of my position am authorized and qualified to make this declaration. [if possible supply additional information as to how person is qualified to make declaration, e.g., I am custodian of records, I am familiar with the company's recordkeeping practices or systems, etc.]
- 2. I further certify that the documents [attached hereto or submitted herewith] and stamped [insert bates range] are true copies of records that were:
 - (a) made at or near the time of the occurrence of the matters set forth therein, by, or from information transmitted by, a person with knowledge of those matters;
 - (b) kept in the course of regularly conducted business activity; and
 - (c) made by the regularly conducted business activity as a regular practice.

I declare under penalty of perjury that the foregoing is true and correct. Executed on [date].

[Name]	



U.S. Securities and Exchange Commission

Data Delivery Standards

This document describes the technical requirements for paper and electronic document productions to the U.S. Securities and Exchange Commission (SEC). **Any questions or proposed file formats other than those described below must be discussed with the legal and technical staff of the SEC Division of Enforcement prior to submission.**

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		3. Data File	
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		5. Linked Native Files	
	11	Native File Productions without Load Files	
		Adobe PDF File Productions	
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General Instructions

The current mailing address for all physical productions sent to the SEC is:

ENF-CPU (U.S. Securities & Exchange Commission), 14420 Albemarle Point Place, Suite 102, Chantilly, VA 20151-1750

Electronic files must be produced in their native format, i.e. the format in which they are ordinarily used and maintained during the normal course of business. For example, an MS Excel file must be produced as an MS Excel file rather than an image of a spreadsheet. (Note: An Adobe PDF file is not considered a native file unless the document was initially created as a PDF.)

In the event produced files require the use of proprietary software not commonly found in the workplace, the SEC will explore other format options with the producing party.

The proposed use of file de-duplication methodologies or computer-assisted review or technology-assisted review (TAR) during the processing of documents must be discussed with and approved by the legal and technical staff of the Division of Enforcement (ENF). If your production will be de-duplicated it is vital that you 1) preserve any unique metadata associated with the duplicate files, for example, custodian name and file location and, 2) make that unique metadata part of your production to the SEC.

General requirements for ALL document productions are:

- 1. A cover letter must be included with each production and should include the following information:
 - a. Case number, case name and requesting SEC staff member name
 - b. A list of each piece of media included in the production with its unique production volume number
 - c. A list of custodians, identifying the Bates range for each custodian
 - d. A list of redacted documents and the redaction reason
 - e. The time zone in which the emails were standardized during conversion
 - Whether the production contains native files produced from Mac operating system environments
- Data can be produced on CD, DVD, thumb drive, etc., using the media requiring the least number of deliverables and labeled with the following:
 - a. Case number
 - b. Production date
 - c. Producing party
 - d. Bates range (if applicable)
- All submissions must be organized by **custodian** unless otherwise instructed.
- 4. All document family groups, i.e. email attachments, embedded files, etc., should be produced together and children files should follow parent files sequentially in the Bates numbering.
- All load-ready collections should include only one data load file and one image pointer file.
- All load-ready text must be produced as separate document-level text files.
- All load-ready collections should account for custodians in the custodian field.
- All load-ready collections must provide the extracted contents of any container files to ensure all relevant files are produced as separate records.
- 9. Audio files should be separated from data files if both are included in the production.
- 10. Only alphanumeric characters and the underscore character are permitted in file names and folder names. Special characters are not permitted.
- 11. All electronic productions submitted on media must be produced using industry standard self-extracting encryption software.
- 12. The SEC uses 7zip to access compressed files. Note that the SEC cannot accept files that use AES-256 Jpeg or pkAES-256-Cert Deflate compression methods, even if the files are created with 7zip. If you have any questions or need additional information, please reach out to the requesting SEC staff member.
- 13. Electronic productions of 30 GB or less are strongly encouraged to be submitted via Secure File Transfer. All Secure File Transfers should be sent to the SEC Centralized Production Unit (ENF-CPU@sec.gov) with a CC to the requesting SEC staff member. If you do not have your own Secure File Transfer application, you may reach out to the requesting SEC staff member for a link to the SEC system in order to upload your production. If using the SEC Secure File Transfer system, you will NOT be able to CC individuals outside the SEC on your upload transmission. Note that the SEC cannot accept productions made using file sharing sites such as Google Drive or Microsoft Office 365.
- 14. Productions containing BSA or SAR material must be encrypted. Secure File Transfer applications may be used to produce BSA or SAR material. BSA or SAR material should be segregated and appropriately marked as BSA or SAR, or should be produced separately from other case related records.
- 15. Passwords for electronic documents, files, compressed archives and encrypted media must be provided separately either via email or in a cover letter apart from the media.
- 16. All electronic productions should be produced free of computer viruses.
- 17. Before producing forensically collected images, parties should reach out to the requesting SEC staff member in order to discuss appropriate handling.

- 18. Before producing unique data sets (large sets of relational data, website reconstruction, chat room data, etc.), parties should reach out to the requesting SEC staff member in order to discuss an appropriate production format.
- 19. Additional technical descriptions can be found in the addendum to this document.

Please note that productions sent to the SEC via United States Postal Service are subject to Mail Irradiation, and as a result electronic productions may be damaged.

Delivery Formats

Imaged Productions

The SEC prefers that all scanned paper and electronic file collections be produced in a structured format including industry standard load files, Bates numbered image files, native files and searchable document-level text files. Bates numbers should not contain spaces. Hyphens (-) and underscores () are acceptable.

1. Images

- a. Black and white images must be 300 DPI Group IV single-page TIFF files
- b. Color images must be produced in JPEG format
- c. File names cannot contain embedded spaces or special characters (including the comma)
- d. Folder names cannot contain embedded spaces or special characters (including the comma)
- e. All image files must have a unique file name, i.e. Bates number
- f. Images must be endorsed with sequential Bates numbers in the lower right corner of each image
- The number of image files per folder should not exceed 2,000 files g.
- h. Excel spreadsheets should have a placeholder image named by the Bates number of the file
- AUTOCAD/photograph files should be produced as a single page JPEG file

2. Image Cross-Reference File

The image cross-reference file (LOG or .OPT) links the images to the database records. It should be a comma-delimited file consisting of seven fields per line with a line in the cross-reference file for every image in the database with the following format:

ImageID, VolumeLabel, ImageFilePath, DocumentBreak, FolderBreak, BoxBreak, PageCount

3. Data File

The data file (.DAT) contains all of the fielded information that will be loaded into the database.

- The first line of the .DAT file must be a header row identifying the field names
- The .DAT file must use the following *Concordance*® default delimiters:

Comma ¶ ASCII character (020)

Quote b ASCII character (254)

- c. If the .DAT file is produced in Unicode format it must contain the byte order marker
- d. Date fields should be provided in the format: mm/dd/yyyy
- Date and time fields must be two separate fields
- f. The time zone must be included in all time fields
- If the production includes imaged emails and attachments, the attachment fields must be included to preserve the parent/child relationship between an email and its attachments
- An OCRPATH field must be included to provide the file path and name of the extracted text file on the produced storage media. The text file must be named after the FIRSTBATES. Do not include the text in the .DAT file.
- í. For productions with native files, a LINK field must be included to provide the file path and name of the native file on the produced storage media. The native file must be named after the FIRSTBATES.
- BEGATTACH and ENDATTACH fields must be two separate fields
- k. A complete list of metadata fields is available in Addendum A to this document

Text

Text must be produced as separate document-level text files, not as fields within the .DAT file. The text files must be named per the FIRSTBATES/Image Key and the full path to the text file (OCRPATH) should be included in the .DAT file. Text files may be in either ANSI or Unicode format, however, ALL text files must be in the same format within the same production. Note that productions containing text with foreign characters must produce text files in Unicode format to preserve the foreign characters. Text files must be in a separate folder, and the number of text files per folder should not exceed 2,000 files. There should be no special characters (including commas) in the folder names. For redacted documents, provide the full text for the redacted version.

Linked Native Files

Copies of original email and native file documents/attachments must be included for all electronic productions.

- a. Native file documents must be named per the FIRSTBATES number
- The full path of the native file must be provided in the .DAT file for the LINK field
- The number of native files per folder should not exceed 2,000 files

II. Native File Production without Load Files

With prior approval, native files may be produced without load files. Native file productions should not be Bates numbered. Native files must be produced as they are maintained in the normal course of business and organized by custodian-named file folders. Native email files (.PST or .MBOX) must be separated by custodian.

III. Adobe PDF File Production

With prior approval, Adobe PDF files may be produced in native file format.

- 1. All PDFs must be unitized at the document level, i.e. each PDF must represent a discrete document.
- 2. PDF files should be produced in separate folders named by the custodian. The folders should not contain any special characters (including commas).
- 3. All PDF files must contain embedded text that includes all discernible words within the document, not selected text or image only. This requires all layers of the PDF to be flattened first.
- 4. If PDF files are Bates endorsed, the PDF files must be named by the Bates range.

IV. Audio Files

Audio files from telephone recording systems must be produced in a format that is playable using Microsoft Windows Media PlayerTM. Additionally, the call information (metadata) related to each audio recording MUST be provided. The metadata file must be produced in a delimited text format. Field names must be included in the first row of the text file. The metadata must include, at a minimum, the following fields:

1) Caller Name: Caller's name or account/identification number

2) Originating Number: Caller's phone number3) Called Party Name: Called party's name

4) Terminating Number: Called party's phone number

5) Date: Date of call6) Time: Time of call

7) Filename: Filename of audio file

V. Video Files

Video files must be produced in a format that is playable using Microsoft Windows Media PlayerTM.

VI. Electronic Trade and Bank Records

When producing electronic trade records, bank records, or financial statements, provide the files in one of the following formats:

- 1. MS Excel spreadsheet with header information detailing the field structure. If any special codes exist in the dataset, a separate document must be provided that details all such codes. If details of the field structure do not fit in the header, a separate document must be provided that includes such details.
- 2. Delimited text file with header information detailing the field structure. The preferred delimiter is a vertical bar "|". If any special codes exist in the dataset, a separate document must be provided that details all such codes. If details of the field structure do not fit in the header, a separate document must be provided that includes such details.

VII. Electronic Phone Records

When producing an MS Excel spreadsheet for electronic phone records, provide the files in the following format:

- 1. MS Excel spreadsheet with header information detailing the field structure. If any special codes exist in the dataset, a separate document must be provided that details all such codes. If details of the field structure do not fit in the header, a separate document must be provided that includes such details. Data must be formatted in its native format (i.e. dates in a date format, numbers in an appropriate numerical format, and numbers with leading zeroes as text).
 - a. The metadata that must be included is outlined in **Addendum B** of this document. Each field of data must be loaded into a separate column. For example, Date and Start_Time must be produced in separate columns and not combined into a single column containing both pieces of information. Any fields of data that are provided in addition to those listed in **Addendum B** must also be loaded into separate columns.

Case 1:24-cv-01858-ACR Document 26-1 Filed 02/04/25 Page 398 of 933

Data Delivery Standards

VIII. Audit Workpapers

The SEC prefers for workpapers to be produced in two formats: (1) With Bates numbers in accordance with the SEC Data Delivery Standards; and (2) in native format via laptop computer, web-based viewing platform, or otherwise, allowing for viewing in the same format and organization as the firm's audit team. Prior to production of workpapers via laptop computer or web-based viewing platform, audit firms should contact the requesting SEC staff member for additional information and written agreements addressing use of software, access, and viewing protocols.

IX. Mobile Device Data

Before producing any mobile device data (including but not limited to text messages and application data) parties should reach out to the requesting SEC staff member in order to discuss the appropriate production format. Productions containing chat data from applications must be identified at the time of production and the following information must be provided to the requesting SEC staff member and the SEC Centralized Production Unit: chat application, chat data format, and how the length of a chat is determined (i.e. set duration of time, number of minutes without messages, etc.)

ADDENDUM A

The metadata of electronic document collections should be extracted and provided in a .DAT file using the field definition and formatting described below:

Field Name	Sample Data	Description
FIRSTBATES	EDC0000001	First Bates number of native file document/email
LASTBATES	EDC0000001	**The LASTBATES field should be populated for single page documents/emails.
ATTACHRANGE	EDC0000001 - EDC0000015	Bates number of the first page of the parent document to the Bates number of the last page of the last attachment "child" document
BEGATTACH	EDC0000001	First Bates number of attachment range
ENDATTACH	EDC0000015	Last Bates number of attachment range
PARENT BATES	EDC0000001	First Bates number of parent document/Email **This PARENT BATES field should be populated in each record representing an attachment "child" document
CHILD BATES	EDC0000002; EDC0000014	First Bates number of "child" attachment(s); can be more than one Bates number listed depending on the number of attachments **The CHILD_BATES field should be populated in each record representing a "parent" document
CUSTODIAN	Smith, John	Email: Mailbox where the email resided Native: Name of the individual or department from whose files the document originated
FROM	John Smith	Email: Sender Native: Author(s) of document **semi-colon should be used to separate multiple entries
ТО	Coffman, Janice; LeeW [mailto:LeeW@MSN.com]	Recipient(s) **semi-colon should be used to separate multiple entries
CC	Frank Thompson [mailto: frank Thompson@cdt.com]	Carbon copy recipient(s) **semi-colon should be used to separate multiple entries
BCC	John Cain	Blind carbon copy recipient(s) **semi-colon should be used to separate multiple entries
SUBJECT	Board Meeting Minutes	Email: Subject line of the email Native: Title of document (if available)
FILE_NAME	BoardMeetingMinutes.docx	Native: Name of the original native file, including extension
DATE_SENT	10/12/2010	Email: Date the email was sent Native: (empty)
TIME_SENT/TIME _ZONE	07:05 PM GMT	Email: Time the email was sent/ Time zone in which the emails were standardized during conversion. Native: (empty) **This data must be a separate field and cannot be combined with the DATE SENT field

TIME ZONE	GMT	The time zone in which the emails were standardized
THATE_ZOINE	G.VII	during conversion.
		Email: Time zone
		Native: (empty)
LINK	D:\001\EDC0000001.msg	Hyperlink to the email or native file document
		**The linked file must be named per the
		FIRSTBATES number
MIME TYPE	application/msword	The content type of an email or native file document
		as identified/extracted from the header
FILE EXTEN	MSG	The file type extension representing the email or
		native file document; will vary depending on the
		format
AUTHOR	John Smith	Email: (empty)
		Native: Author of the document
LAST_AUTHOR	Jane Doe	Email: (empty)
		Native: Last Author of the document
DATE_CREATED	10/10/2010	Email: (empty)
		Native: Date the document was created
TIME_CREATED/T	10:25 AM GMT	Email: (empty)
IME ZONE		Native: Time the document was created including time
		zone
		**This data must be a separate field and cannot be
		combined with the DATE_CREATED field
DATE_MOD	10/12/2010	Email: (empty)
		Native: Date the document was last modified
TIME_MOD/TIME_	07:00 PM GMT	Email: (empty)
ZONE		Native: Time the document was last modified including
		the time zone
		**This data must be a separate field and cannot be
		combined with the DATE_MOD field
DATE_ACCESSD	10/12/2010	Email: (empty)
		Native: Date the document was last accessed
TIME_ACCESSD/T	07:00 PM GMT	Email: (empty)
IME ZONE		Native: Time the document was last accessed including
		the time zone
		**This data must be a separate field and cannot be
		combined with the DATE_ACCESSD field
PRINTED_DATE	10/12/2010	Email: (empty)
		Native: Date the document was last printed
FILE_SIZE	5,952	Size of native file document/email in KB
PGCOUNT	I	Number of pages in native file document/email
PATH	J:\Shared\SmithJ\October	Email: (empty)
	Agenda.doc	Native: Path where native file document was stored
		including original file name.
INTFILEPATH	Personal Folders\Deleted	Email: original location of email including original
	Items\Board Meeting	file name.
	Minutes.msg	Native: (empty)
INTMSGID	<000805c2c71b\$75977050\$cb	Email: Unique Message ID
	8306d1@MSN>	Native: (empty)

Case 1:24-cv-01858-ACR Document 26-1 Filed 02/04/25 Page 401 of 933 Data Delivery Standards

HEADER	Return-Path: <example_from@dc.edu> X-SpamCatcher-Score:1[X] Received:from[136.167.40.119] (HELO dc.edu) by fe3.dc.edu (CommuniGate Pro SMTP4.1.8) with ESMTP-TLS id 61258719 for example_to@mail.dc.edu; Mon, 23 Aug 2004 11:40:10 - 0400 Message-ID: <4129F3CA.2020509@dc.edu> Date: Mon, 23 Aug 2005 11:40:36 -400 From: Taylor Evans <example_from@dc.edu> User-Agent:Mozilla/5.0 (Windows;U; Windows NT 5.1; en-US;rv:1.0.1) Gecko/20020823 Netscape/7.0 X-Accept-Language:en-us,en MIME-Version:1.0 To: Jon Smith <example_to@mail.dc.edu> Subject:Business Development Meeting Content-Type: text/plain;charset-us-ascii; format=flowed Content-Transfer-Encoding:7bit</example_to@mail.dc.edu></example_from@dc.edu></example_from@dc.edu>	Email: The email header information Native: (empty) SHA-256 hash value of the document.
SHA256	AD6128C5CA40164AF71A1E FC800E12D2F195CE07BB5F8 C813B0888A2DDE6A06F	STA-230 hash value of the document.
OCRPATH	TEXT/001/EDC0000001.txt	Path to extracted text of the native file

Sample Image Cross-Reference File:

IMG000001,,E:\001\IMG0000001.TIF,Y,,,
IMG0000002,,E:\001\IMG0000002.TIF,,,,
IMG0000003,,E:\001\IMG0000003.TIF,,,,
IMG0000004,,E:\001\IMG0000005.TIF,Y,,,
IMG0000005,,E:\001\IMG0000005.TIF,Y,,,
IMG0000006,,E:\001\IMG0000006.TIF,,,,,

ADDENDUM B

For Electronic Phone Records, include the following fields in separate columns: For Calls:

- 1) Account Number
- 2) Connection Date Date the call was received or made
- 3) Connection Time Time call was received or made
- 4) Seizure Time Time it took for the call to be placed in seconds
- 5) Originating Number Phone that placed the call
- 6) Terminating Number Phone that received the call
- 7) Elapsed Time The length of time the call lasted, preferably in seconds
- 8) End Time The time the call ended
- 9) Number Dialed Actual number dialed
- 10) IMEI Originating Unique id to phone used to make call
- 11) IMEI Terminating- Unique id to phone used to receive call
- 12) IMSI Originating Unique id to phone used to make call
- 13) IMSI Terminating- Unique id to phone used to receive call
- 14) Call Codes Identify call direction or other routing information
- 15) Time Zone Time Zone in which the call was received or placed, if applicable

For Text messages:

- 1) Account Number
- Connection Date Date the text was received or made
- 3) Connection Time Time text was received or made
- 4) Originating Number Who placed the text
- 5) Terminating Number Who received the text
- 6) IMEI Originating Unique id to phone used to make text
- 7) IMEI Terminating Unique id to phone used to receive text
- 8) IMSI Originating Unique id to phone used to make text
- 9) IMSI Terminating- Unique id to phone used to receive text
- 10) Text Code Identify text direction, or other text routing information
- 11) Text Type Code Type of text message (sent SMS, MMS, or other)
- 12) Time Zone Time Zone in which the call was received or placed, if applicable

For Mobile Data Usage:

- 1) Account Number
- 2) Connection Date Date the data was received or made
- 3) Connection Time Time data was received or made
- 4) Originating number Number that used data
- 5) IMEI Originating Unique id of phone that used data
- 6) IMSI Originating Unique id of phone that used data
- 7) Data or Data codes Identify data direction, or other data routing information
- 8) Time Zone Time Zone in which the call was received or placed, if applicable

SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549

Supplemental Information for Persons Requested to Supply Information Voluntarily or Directed to Supply Information Pursuant to a Commission Subpoena

A. False Statements and Documents

Section 1001 of Title 18 of the United States Code provides that fines and terms of imprisonment may be imposed upon:

[W]hoever, in any matter within the jurisdiction of the executive, legislative, or judicial branch of the Government of the United States, knowingly and willfully--

- (1) falsifies, conceals, or covers up by any trick, scheme, or device a material fact;
- (2) makes any materially false, fictitious, or fraudulent statement or representation; or
- (3) makes or uses any false writing or document knowing the same to contain any materially false, fictitious, or fraudulent statement or entry.

Section 1519 of Title 18 of the United States Code provides that fines and terms of imprisonment may be imposed upon:

Whoever knowingly alters, destroys, mutilates, conceals, covers up, falsifies, or makes a false entry in any record, document, or tangible object with the intent to impede, obstruct, or influence the investigation or proper administration of any matter within the jurisdiction of any department or agency of the United States . . ., or in relation to or contemplation of any such matter.

B. Testimony

If your testimony is taken, you should be aware of the following:

- 1. Record. Your testimony will be transcribed by a reporter. If you desire to go off the record, please indicate this to the Commission employee taking your testimony, who will determine whether to grant your request. The reporter will not go off the record at your, or your counsel's, direction.
- 2. Counsel. You have the right to be accompanied, represented and advised by counsel of your choice. Your counsel may advise you before, during and after your testimony; question you briefly at the conclusion of your testimony to clarify any of the answers you give during testimony; and make summary notes during your testimony solely for your use. If you are accompanied by counsel, you may consult privately.

If you are not accompanied by counsel, please advise the Commission employee taking your testimony if, during the testimony, you desire to be accompanied, represented and advised by counsel. Your testimony will be adjourned once to afford you the opportunity to arrange to be so accompanied, represented or advised.

You may be represented by counsel who also represents other persons involved in the Commission's investigation. This multiple representation, however, presents a potential conflict of interest if one client's interests are or may be adverse to another's. If you are represented by counsel who also represents other persons involved in the investigation, the Commission will assume that you and counsel have discussed and resolved all issues concerning possible conflicts of interest. The choice of counsel, and the responsibility for that choice, is yours.

3. Transcript Availability. Rule 6 of the Commission's Rules Relating to Investigations, 17 CFR 203.6, states:

A person who has submitted documentary evidence or testimony in a formal investigative proceeding shall be entitled, upon written request, to procure a copy of his documentary evidence or a transcript of his testimony on payment of the appropriate fees: *Provided, however*, That in a nonpublic formal investigative proceeding the Commission may for good cause deny such request. In any event, any witness, upon proper identification, shall have the right to inspect the official transcript of the witness' own testimony.

If you wish to purchase a copy of the transcript of your testimony, the reporter will provide you with a copy of the appropriate form. Persons requested to supply information voluntarily will be allowed the rights provided by this rule.

4. Perjury. Section 1621 of Title 18 of the United States Code provides that fines and terms of imprisonment may be imposed upon:

Whoever--

- (1) having taken an oath before a competent tribunal, officer, or person, in any case in which a law of the United States authorizes an oath to be administered, that he will testify, declare, depose, or certify truly, or that any written testimony, declaration, deposition, or certificate by him subscribed, is true, willfully and contrary to such oath states or subscribes any material matter which he does not believe to be true; or
- (2) in any declaration, certificate, verification, or statement under penalty of periury as permitted under section 1746 of title 28. United States Code, willfully subscribes as true any material matter which he does not believe to be true.
- 5. Fifth Amendment and Voluntary Testimony. Information you give may be used against you in any federal, state, local or foreign administrative, civil or criminal proceeding brought by the Commission or any other agency.

You may refuse, in accordance with the rights guaranteed to you by the Fifth Amendment to the Constitution of the United States, to give any information that may tend to incriminate you.

If your testimony is not pursuant to subpoena, your appearance to testify is voluntary, you need not answer any question, and you may leave whenever you wish. Your cooperation is, however, appreciated.

Formal Order Availability. If the Commission has issued a formal order of investigation, it will be shown to you during your testimony, at your request. If you desire a copy of the formal order, please make your request in writing.

C. Submissions and Settlements

Rule 5(c) of the Commission's Rules on Informal and Other Procedures, 17 CFR 202.5(c), states:

Persons who become involved in . . . investigations may, on their own initiative, submit a written statement to the Commission setting forth their interests and position in regard to the subject matter of the investigation. Upon request, the staff, in its discretion, may advise such persons of the general nature of the investigation, including the indicated violations as they pertain to them, and the amount of time that may be available for preparing and submitting a statement prior to the presentation of a staff recommendation to the Commission for the commencement of an administrative or injunction proceeding. Submissions by interested persons should be forwarded to the appropriate Division Director or Regional Director with a copy to the staff members conducting the investigation and should be clearly referenced to the specific investigation to which they relate. In the event a recommendation for the commencement of an enforcement proceeding is presented by the staff, any submissions by interested persons will be forwarded to the Commission in conjunction with the staff memorandum.

The staff of the Commission routinely seeks to introduce submissions made pursuant to Rule 5(c) as evidence in Commission enforcement proceedings, when the staff deems appropriate.

Rule 5(f) of the Commission's Rules on Informal and Other Procedures, 17 CFR 202.5(f), states:

In the course of the Commission's investigations, civil lawsuits, and administrative proceedings, the staff, with appropriate authorization, may discuss with persons involved the disposition of such matters by consent, by settlement, or in some other manner. It is the policy of the Commission, however, that the disposition of any such matter may not, expressly or impliedly, extend to any criminal charges that have been, or may be, brought against any such person or any recommendation with respect thereto. Accordingly, any person involved in an enforcement matter before the Commission who consents, or agrees to consent, to any judgment or order does so solely for the purpose of resolving the claims against him in that investigative, civil, or administrative matter and not for the purpose of resolving any criminal charges that have been, or might be, brought against him. This policy reflects the fact that neither the Commission nor its staff has the authority or responsibility for instituting, conducting, settling, or otherwise disposing of criminal proceedings. That authority and responsibility are vested in the Attorney General and representatives of the Department of Justice.

D. Freedom of Information Act

The Freedom of Information Act, 5 U.S.C. 552 (the "FOIA"), generally provides for disclosure of information to the public. Rule 83 of the Commission's Rules on Information and Requests, 17 CFR 200.83, provides a procedure by which a person can make a written request that information submitted to the Commission not be disclosed under the FOIA. That rule states that no determination as to the validity of such a request will be made until a request for disclosure of the information under the FOIA is received. Accordingly, no response to a request that information not be disclosed under the FOIA is necessary or will be given until a request for disclosure under the FOIA is received. If you desire an acknowledgment of receipt of your written request that information not be disclosed under the FOIA, please provide a duplicate request, together with a stamped, self-addressed envelope.

E. Authority for Solicitation of Information

Persons Directed to Supply Information Pursuant to Subpoena. The authority for requiring production of information is set forth in the subpoena. Disclosure of the information to the Commission is mandatory, subject to the valid assertion of any legal right or privilege you might have.

Persons Requested to Supply Information Voluntarily. One or more of the following provisions authorizes the Commission to solicit the information requested: Sections 19 and/or 20 of the Securities Act of 1933; Section 21 of the Securities Exchange Act of 1934; Section 321 of the Trust Indenture Act of 1939; Section 42 of the Investment Company Act of 1940; Section 209 of the Investment Advisers Act of 1940; and 17 CFR 202.5. Disclosure of the requested information to the Commission is voluntary on your part.

F. Effect of Not Supplying Information

Persons Directed to Supply Information Pursuant to Subpoena. If you fail to comply with the subpoena, the Commission may seek a court order requiring you to do so. If such an order is obtained and you thereafter fail to supply the information, you may be subject to civil and/or criminal sanctions for contempt of court. In addition, Section 21(c) of the Securities Exchange Act of 1934, Section 42(c) of the Investment Company Act of 1940, and Section 209(c) of the Investment Advisers Act of 1940 provide that fines and terms of imprisonment may be imposed upon any person who shall, without just cause, fail or refuse to attend and testify or to answer any lawful inquiry, or to produce books, papers, correspondence, memoranda, and other records in compliance with the subpoena.

Persons Requested to Supply Information Voluntarily. There are no direct sanctions and thus no direct effects for failing to provide all or any part of the requested information.

G. Principal Uses of Information

The Commission's principal purpose in soliciting the information is to gather facts in order to determine whether any person has violated, is violating, or is about to violate any provision of the federal securities laws or rules for which the Commission has enforcement authority, such as rules of securities exchanges and the rules of the Municipal Securities Rulemaking Board. Facts developed may, however, constitute violations of other laws or rules. Information provided may be used in Commission and other agency enforcement proceedings. Unless the Commission or its staff explicitly agrees to the contrary in writing, you should not assume that the Commission or its staff acquiesces in, accedes to, or concurs or agrees with, any position, condition, request, reservation of right, understanding, or any other statement that purports, or may be deemed, to be or to reflect a limitation upon the Commission's receipt, use, disposition, transfer, or retention, in accordance with applicable law, of information provided.

H. Routine Uses of Information

The Commission often makes its files available to other governmental agencies, particularly United States Attorneys and state prosecutors. There is a likelihood that information supplied by you will be made available to such agencies where appropriate. Whether or not the Commission makes its files available to other governmental agencies is, in general, a confidential matter between the Commission and such other governmental agencies.

Set forth below is a list of the routine uses which may be made of the information furnished.

- 1. To appropriate agencies, entities, and persons when (1) the SEC suspects or has confirmed that there has been a breach of the system of records, (2) the SEC has determined that as a result of the suspected or confirmed breach there is a risk of harm to individuals, the SEC (including its information systems, programs, and operations), the Federal Government, or national security; and (3) the disclosure made to such agencies, entities, and persons is reasonably necessary to assist in connection with the SEC's efforts to respond to the suspected or confirmed breach or to prevent, minimize, or remedy such harm.
- 2. To other Federal, state, local, or foreign law enforcement agencies; securities self-regulatory organizations; and foreign financial regulatory authorities to assist in or coordinate regulatory or law enforcement activities with the SEC.
- 3. To national securities exchanges and national securities associations that are registered with the SEC, the Municipal Securities Rulemaking Board; the Securities Investor Protection Corporation; the Public Company Accounting Oversight Board; the Federal banking authorities, including, but not limited to, the Board of Governors of the Federal Reserve System, the Comptroller of the Currency, and the Federal Deposit Insurance Corporation; state securities regulatory agencies or organizations; or regulatory authorities of a foreign government in connection with their regulatory or enforcement responsibilities.
- 4. By SEC personnel for purposes of investigating possible violations of, or to conduct investigations authorized by, the Federal securities laws.
- 5. In any proceeding where the Federal securities laws are in issue or in which the Commission, or past or present members of its staff, is a party or otherwise involved in an official capacity.

- 6. In connection with proceedings by the Commission pursuant to Rule 102(e) of its Rules of Practice, 17 CFR 201.102(e).
- 7. To a bar association, state accountancy board, or other Federal, state, local, or foreign licensing or oversight authority; or professional association or self-regulatory authority to the extent that it performs similar functions (including the Public Company Accounting Oversight Board) for investigations or possible disciplinary action.
- 8. To a Federal, state, local, tribal, foreign, or international agency, if necessary to obtain information relevant to the SEC's decision concerning the hiring or retention of an employee; the issuance of a security clearance; the letting of a contract; or the issuance of a license, grant, or other benefit.
- 9. To a Federal, state, local, tribal, foreign, or international agency in response to its request for information concerning the hiring or retention of an employee; the issuance of a security clearance; the reporting of an investigation of an employee; the letting of a contract; or the issuance of a license, grant, or other benefit by the requesting agency, to the extent that the information is relevant and necessary to the requesting agency's decision on the matter.
- 10. To produce summary descriptive statistics and analytical studies, as a data source for management information, in support of the function for which the records are collected and maintained or for related personnel management functions or manpower studies; may also be used to respond to general requests for statistical information (without personal identification of individuals) under the Freedom of Information Act.
- 11. To any trustee, receiver, master, special counsel, or other individual or entity that is appointed by a court of competent jurisdiction, or as a result of an agreement between the parties in connection with litigation or administrative proceedings involving allegations of violations of the Federal securities laws (as defined in section 3(a)(47) of the Securities Exchange Act of 1934, 15 U.S.C. 78c(a)(47)) or pursuant to the Commission's Rules of Practice, 17 CFR 201.100 through 900 or the Commission's Rules of Fair Fund and Disgorgement Plans, 17 CFR 201.1100 through 1106, or otherwise, where such trustee, receiver, master, special counsel, or other individual or entity is specifically designated to perform particular functions with respect to, or as a result of, the pending action or proceeding or in connection with the administration and enforcement by the Commission of the Federal securities laws or the Commission's Rules of Practice or the Rules of Fair Fund and Disgorgement Plans.
- 12. To any persons during the course of any inquiry, examination, or investigation conducted by the SEC's staff, or in connection with civil litigation, if the staff has reason to believe that the person to whom the record is disclosed may have further information about the matters related therein, and those matters appeared to be relevant at the time to the subject matter of the inquiry.
- 13. To interns, grantees, experts, contractors, and others who have been engaged by the Commission to assist in the performance of a service related to this system of records and who need access to the records for the purpose of assisting the Commission in the efficient administration of its programs, including by performing clerical, stenographic, or data analysis functions, or by reproduction of records by electronic or other means. Recipients of these records shall be required to comply with the requirements of the Privacy Act of 1974, as amended, 5 U.S.C. 552a.
- 14. In reports published by the Commission pursuant to authority granted in the Federal securities laws (as such term is defined in section 3(a)(47) of the Securities Exchange Act of 1934, 15 U.S.C. 78c(a)(47)), which authority shall include, but not be limited to, section 21(a) of the Securities Exchange Act of 1934, 15 U.S.C. 78u(a)).
- 15. To members of advisory committees that are created by the Commission or by Congress to render advice and recommendations to the Commission or to Congress, to be used solely in connection with their official designated functions.
- 16. To any person who is or has agreed to be subject to the Commission's Rules of Conduct, 17 CFR 200.735-1 through 200.735-18, and who assists in the investigation by the Commission of possible violations of the Federal securities laws (as such term is defined in section 3(a)(47) of the Securities Exchange Act of 1934, 15 U.S.C. 78c(a)(47)), in the preparation or conduct of enforcement actions brought by the Commission for such violations, or otherwise in connection with the Commission's enforcement or regulatory functions under the Federal securities laws.
- 17. To a Congressional office from the record of an individual in response to an inquiry from the Congressional office made at the request of that individual.
- 18. To members of Congress, the press, and the public in response to inquiries relating to particular Registrants and their activities, and other matters under the Commission's jurisdiction.
- 19. To prepare and publish information relating to violations of the Federal securities laws as provided in 15 U.S.C. 78c(a)(47)), as amended.
- 20. To respond to subpoenas in any litigation or other proceeding.

- 21. To a trustee in bankruptcy.
- 22. To any governmental agency, governmental or private collection agent, consumer reporting agency or commercial reporting agency, governmental or private employer of a debtor, or any other person, for collection, including collection by administrative offset, Federal salary offset, tax refund offset, or administrative wage garnishment, of amounts owed as a result of Commission civil or administrative proceedings.
- 23. To another Federal agency or Federal entity, when the SEC determines that information from this system of records is reasonably necessary to assist the recipient agency or entity in (1) responding to a suspected or confirmed breach or (2) preventing, minimizing, or remedying the risk of harm to individuals, the recipient agency or entity (including its information systems, programs, and operations), the Federal Government, or national security, resulting from a suspected or confirmed breach.

* * * * *

Small Business Owners: The SEC always welcomes comments on how it can better assist small businesses. If you would like more information, or have questions or comments about federal securities regulations as they affect small businesses, please contact the Office of Small Business Policy, in the SEC's Division of Corporation Finance, at 202-551-3460. If you would prefer to comment to someone outside of the SEC, you can contact the Small Business Regulatory Enforcement Ombudsman at http://www.sba.gov/ombudsman or toll free at 888-REG-FAIR. The Ombudsman's office receives comments from small businesses and annually evaluates federal agency enforcement activities for their responsiveness to the special needs of small business.



UNITED STATES SECURITIES AND EXCHANGE COMMISSION

100 PEARL STREET, SUITE 20-100 NEW YORK, NY 10004-2616

DIVISION OF ENFORCEMENT

March 12, 2024

VIA UPS

(b)(6); (b)(7)(C)		

Re: C-08950

Dear (b)(6); (b)(7)(C)

The enclosed subpoena has been issued pursuant to a formal order entered by the United States Securities and Exchange Commission. Pursuant to Rule 8 of the United States Securities and Exchange Commission's Rules Relating to Investigations, 17 C.F.R. § 203.8, I have enclosed a subpoena for documents issued to you, in connection with the above-referenced investigation.

The enclosed subpoena requires you to produce documents to the SEC by March 26, 2024. Please deliver the materials to:

ENF-CPU U.S. Securities and Exchange Commission 14420 Albemarle Point Place, Suite 102 Chantilly, VA 20151-1750

For smaller electronic productions under 10MB in size, the materials may be emailed to the following email address: ENF-CPU@sec.gov.

Please also provide a duplicate copy of any document production cover letters to me at (b)(6); Esec.gov. Additionally, please include the SEC matter number and the name of the requesting attorney when responding.

Please carefully read the subpoena attachment, which contains, among other things, important instructions related to the manner of producing documents. In particular, if you prefer to send us copies of original documents, the staff requests that you scan and produce hard copy documents, as well as electronic documents, in an electronic format consistent with the SEC Data Delivery Standards attached hereto. All electronic documents responsive to

the subpoena, including all metadata, should also be produced in their native software **format**. If you have any questions concerning the production of documents in an electronic format, please contact me as soon as possible and in any event before producing documents. For security reasons, we strongly encourage the encryption of sensitive documents before production.

In your cover letter(s) accompanying the production of responsive documents, please enclose a list briefly describing each item you send. The list should identify the paragraph(s) in the subpoena attachment to which each item responds. Please also state in the cover letter(s) whether you believe you have met the obligations of the subpoena by searching carefully and thoroughly for everything called for by the subpoena, and sending it all to us.

A copy of the subpoena should be included with the documents that are produced. Correspondence should reference case number, case name and requesting SEC staff member.

Passwords for documents, files, compressed archives, and encrypted media should be provided separately either via email addressed to ENF-CPU@sec.gov, or in a separate cover letter mailed separately from the data. Password correspondence should reference case number, case name and requesting SEC staff member.

Please also provide a narrative description describing what was done to identify and collect documents responsive to the subpoena. At a minimum, the narrative should describe:

- who searched for documents;
- who reviewed documents found to determine whether they were responsive;
- which custodians were searched;
- what sources were searched (e.g., computer files, CDs, DVDs, thumb drives, flash drives, online storage media, hard copy files, diaries, datebooks, planners, filing cabinets, storage facilities, home offices, work offices, voice mails, home email, webmail, work email, backup tapes or other media);
- what search terms, if any, were employed to identify responsive documents;
- what firms and/or persons, if any, assisted in analyzing the data collected;
- what third parties, if any, were contacted to obtain responsive documents (e.g., phone companies for phone records, brokerage firms for brokerage records); and
- where the original electronic and hardcopy documents are maintained and by whom.

In addition, for any documents that qualify as records of regularly conducted activities under Federal Rule of Evidence 902(11), please complete a business records certification (a sample of which is enclosed) and return it with the document production. Execution of this certification may allow the Commission to introduce the documents provided by you in any subsequent judicial proceeding, without requiring your testimony.

Enclosed is a copy of the Commission's Form 1662, entitled "Supplemental Information for Persons Requested to Supply Information Voluntarily or Directed to Supply Information Pursuant to a Commission Subpoena." This form explains how we may use the information that you provide to the Commission and has other important information for you.

This investigation is a non-public, fact-finding inquiry. We are trying to determine whether there have been any violations of the federal securities laws. The investigation does not mean that we have concluded that anyone has violated the law. Also, the investigation does not mean that we have a negative opinion of any person, entity, or security.

If you have any questions or would like to discuss this matter, you may contact me at (b)(6); (b)(7)(C)

Bilicerery,	,	
(b)(6); (b)(7)(C)		
Division of	of Enfor	cement
(b)(6); (b)(7)(C	.)	
(b)(6); (b)(7)(C)	gsec.gov	7

Singarahy

Enclosures: Subpoena and Attachment

SEC Data Delivery Standards

SEC Form 1662

Business Records Certification



SUBPOENA

UNITED STATES OF AMERICA SECURITIES AND EXCHANGE COMMISSION

C-08950

То:	(b)(6); (b)(7)(C)
\boxtimes	YOU MUST PRODUCE everything specified in the Attachment to this subpoena to officers of the Securities and Exchange Commission, at the place, date and time specified below:
	ENF-CPU, U.S. Securities and Exchange Commission, 14420 Albemarle Point Place, Suite 102 Chantilly, VA 20151-1750, no later than March 26, 2024
	YOU MUST TESTIFY before officers of the Securities and Exchange Commission, at the place, date and time specified below:
	FEDERAL LAW REQUIRES YOU TO COMPLY WITH THIS SUBPOENA. If you do not comply with this subpoena, the SEC may bring an action in Federal Court to enforce this subpoena. Failure to comply with a court order enforcing this subpoena may result in the court imposing a fine, imprisonment, or both.
By:	(b)(6); (b)(7)(C) Date: March 12, 2024
	U.S. Securities and Exchange Commission New York Regional Office 100 Pearl Street, Suite 20-100 New York, NY 10004-2616

I am an officer of the U.S. Securities and Exchange Commission authorized to issue subpoenas in this matter. The Securities and Exchange Commission has issued a formal order authorizing this investigation under Section 20(a) of the Securities Act of 1933.

NOTICE TO WITNESS: If you claim a witness fee or mileage, submit this subpoena with the claim voucher.

SUBPOENA ATTACHMENT FOR	(b)(6); (b)(7)(C)
C-08950	

March 12, 2024

Definitions

As used in this subpoena, the words and phrases listed below shall have the following meanings:

- 1. "Ethereum Cat Herders" or "ECH" means the group operating under the name "Ethereum Cat Herders", including parents, subsidiaries, affiliates, predecessors, successors, officers, directors, employees, agents, general partners, limited partners, partnerships and aliases, code names, or trade or business names used by any of the foregoing.
- 2. "Document" shall include, but is not limited to, any written, printed, or typed matter including, but not limited to all drafts and copies bearing notations or marks not found in the original, letters and correspondence, interoffice communications, slips, tickets, records, worksheets, financial records, accounting documents, bookkeeping documents, memoranda, reports, manuals, telephone logs, facsimiles, messages of any type, telephone messages, text messages, voice mails, tape recordings, notices, instructions, minutes, summaries, notes of meetings, file folder markings, and any other organizational indicia, purchase orders, information recorded by photographic process, including microfilm and microfiche, computer printouts, spreadsheets, and other electronically stored information, including but not limited to writings, drawings, graphs, charts, photographs, sound recordings, images, and other data or data compilations that are stored in any medium from which information can be retrieved, obtained, manipulated, or translated.
- 3. "Communication" means any correspondence, contact, discussion, e-mail, instant message, or any other kind of oral or written exchange or transmission of information (in the form of facts, ideas, inquiries, or otherwise) and any response thereto between two or more Persons or entities, including, without limitation, all telephone conversations, face-to-face meetings or conversations, internal or external discussions, or exchanges of a Document or Documents.
- 4. "Concerning" means directly or indirectly, in whole or in part, describing, constituting, evidencing, recording, evaluating, substantiating, concerning, referring to, alluding to, in connection with, commenting on, relating to, regarding, discussing, showing, describing, analyzing or reflecting.
- 5. An "Agreement" means any actual or contemplated (i) written or oral Agreement; (ii) term or provision of such Agreement; or (iii) amendment of any nature or termination of such Agreement. A request for any Agreement among or between specified parties includes a request for all Documents Concerning (i) any actual or contemplated Agreement among or between such parties, whether or not such Agreement included any other Person; (ii) the drafting or negotiation of any such Agreement; (iii) any actual or

- 6. The "Ethereum Foundation" means the entity or business doing business under the name Ethereum Foundation, including, but not limited to, ethereum.org, the Ethereum Support Program, and parents, subsidiaries, affiliates, predecessors, successors, officers, directors, employees, agents, general partners, limited partners, partnerships and aliases, owners, code names, or trade or business names used by any of the foregoing.
- 7. "EIP" means Ethereum Improvement Proposal.
- 8. "The Merge" or "Ethereum 2.0" means the transition by the Ethereum blockchain of its consensus mechanism from proof-of-work to proof-of-stake.
- 9. "Bank or Financial Account" means the domestic or foreign bank, brokerage, or financial accounts held, controlled, or used by you or by other people on your behalf. This includes, but is not limited to, accounts that contain currency, securities, or crypto assets.
- 10. The term "you" and "your" means the Person to whom or entity to which this subpoena was issued.
- 11. To the extent necessary to bring within the scope of this this subpoena any information or Documents that might otherwise be construed to be outside its scope:
 - a. the word "or" means "and/or";
 - b. the word "and" means "and/or";
 - c. the functional words "each," "every" "any" and "all" shall each be deemed to include each of the other functional words;
 - d. the masculine gender includes the female gender and the female gender includes the masculine gender; and
 - e. the singular includes the plural and the plural includes the singular.

Instructions

- 1. Unless otherwise specified, this subpoena calls for production of the original Documents and all copies and drafts of same. Documents responsive to this subpoena may be in electronic or paper form. Electronic Documents such as email should be produced in accordance with the attached Document entitled SEC Data Delivery Standards. All responsive electronic Documents, including all metadata, should also be produced in their native software format.
- 2. For Documents in paper format, you may send the originals, or, if you prefer, you may send copies of the originals. The Commission cannot reimburse you for the copying costs. If you are sending copies, the staff requests that you scan (rather than photocopy) hard copy Documents and produce them in an electronic format consistent with the SEC

Data Delivery Standards. Alternatively, you may send us photocopies of the Documents in paper format. If you choose to send copies, you <u>must</u> secure and retain the originals and store them in a safe place. The staff may later request or require that you produce the originals.

- 3. Whether you scan or photocopy Documents, the copies must be identical to the originals, including even faint marks or print. Also, please note that if copies of a Document differ in any way, they are considered separate Documents and you must send each one. For example, if you have two copies of the same letter, but only one of them has handwritten notes on it, you must send both the clean copy and the one with notes.
- 4. In producing a photocopy of an original Document that contains post-it(s), notation flag(s), or other removable markings or attachments which may conceal all or a portion of the markings contained in the original Document, photocopies of the original Document both with and without the relevant post-it(s), notation flag(s), or removable markings or attachments should be produced.
- 5. Documents should be produced as they are kept in the ordinary course of business or be organized and labeled to correspond with the categories in this request. In that regard, Documents should be produced in a unitized manner, i.e., delineated with staples or paper clips to identify the Document boundaries.
- 6. Documents should be labeled with sequential numbering (bates-stamped).
- 7. You must produce all Documents created during, or Concerning, the time period **July 1**, **2018 to the present**, unless otherwise specified.
- 8. The scope of any given request should not be limited or narrowed based on the fact that it calls for Documents that are responsive to another request.
- 9. You are not required to produce exact duplicates of any Documents that have been previously produced to the Securities and Exchange Commission staff in connection with this matter. If you are not producing Documents based upon a prior production, please identify the responsive Documents that were previously produced.
- 10. For any Documents that qualify as records of regularly conducted activities under Federal Rule of Evidence 902(11), please complete a business records certification (a sample of which is enclosed) and return it with the Document production.
- 11. This subpoena covers all Documents in or subject to your possession, custody or control, including all Documents that are not in your immediate possession but that you have the effective ability to obtain, that are responsive, in whole or in part, to any of the individual requests set forth below. If, for any reason including a claim of attorney-client privilege you do not produce something called for by the request, you should submit a list of what you are not producing. The list should describe each item separately, noting:

- a. its author(s);
- b. its date;
- c. its subject matter;
- d. the name of the Person who has the item now, or the last Person known to have it;
- e. the names of everyone who ever had the item or a copy of it, and the names of everyone who was told the item's contents;
- f. the basis upon which you are not producing the responsive Document;
- g. the specific request in the subpoena to which the Document relates;
- h. the attorney(s) and the client(s) involved; and
- i. in the case of the work product doctrine, the litigation for which the Document was prepared in anticipation.
- 12. If Documents responsive to this subpoena no longer exist because they have been lost, discarded, or otherwise destroyed, you should identify such Documents and give the date on which they were lost, discarded or destroyed.

Documents to be Produced

- 1. Documents sufficient to identify former and current ECH members, and their titles, if any.
- 2. All Documents and Communications Concerning (a) The Merge; (b) EIP-1559; (c) EIP-2982; (d) EIP-3675; and (e) EIP-4895.
- 3. All Agreements between you or ECH, on the one hand, and the Ethereum Foundation, on the other hand.
- 4. Documents sufficient to identify any crypto asset wallet addresses or Bank or Financial Accounts belonging to You or ECH, that received any grant or other source of funding from the Ethereum Foundation, as well as the amount of crypto assets or fiat received.
- 5. Documents sufficient to identify all meetings with the Ethereum Foundation, including any Document related to the meetings identified.
- 6. All Documents and Communications Concerning any grant or other source of funding received from the Ethereum Foundation.
- 7. All Documents and Communications Concerning any work conducted by You or ECH pursuant to any grant or other source of funding received from the Ethereum Foundation.
- 8. All Communications with the Ethereum Foundation, including, but not limited to, Communications with board members, consultants, officers, directors, employees, developers, coders, and others performing work on behalf of these entities, related to The Merge.

DECLARATION OF [Insert Name] CERTIFYING RECORDS OF REGULARLY CONDUCTED BUSINESS ACTIVITY

I, the undersigned, [insert name], pursuant to 28 U.S.C. § 1746, declare that:

- 1. I am employed by [insert entity] as [insert position] and by reason of my position am authorized and qualified to make this declaration. [if possible supply additional information as to how person is qualified to make declaration, e.g., I am custodian of records, I am familiar with the company's recordkeeping practices or systems, etc.]
- 2. I further certify that the documents [attached hereto or submitted herewith] and stamped [insert bates range] are true copies of records that were:
 - (a) made at or near the time of the occurrence of the matters set forth therein, by, or from information transmitted by, a person with knowledge of those matters;
 - (b) kept in the course of regularly conducted business activity; and
 - (c) made by the regularly conducted business activity as a regular practice.

I declare under penalty of perjury that the foregoing is true and correct. Executed on [date].

[Name]	



U.S. Securities and Exchange Commission

Data Delivery Standards

This document describes the technical requirements for paper and electronic document productions to the U.S. Securities and Exchange Commission (SEC). **Any questions or proposed file formats other than those described below must be discussed with the legal and technical staff of the SEC Division of Enforcement prior to submission.**

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General Instructions

The current mailing address for all physical productions sent to the SEC is:

ENF-CPU (U.S. Securities & Exchange Commission), 14420 Albemarle Point Place, Suite 102, Chantilly, VA 20151-1750

Electronic files must be produced in their native format, i.e. the format in which they are ordinarily used and maintained during the normal course of business. For example, an MS Excel file must be produced as an MS Excel file rather than an image of a spreadsheet. (Note: An Adobe PDF file is not considered a native file unless the document was initially created as a PDF.)

In the event produced files require the use of proprietary software not commonly found in the workplace, the SEC will explore other format options with the producing party.

The proposed use of file de-duplication methodologies or computer-assisted review or technology-assisted review (TAR) during the processing of documents must be discussed with and approved by the legal and technical staff of the Division of Enforcement (ENF). If your production will be de-duplicated it is vital that you 1) preserve any unique metadata associated with the duplicate files, for example, custodian name and file location and, 2) make that unique metadata part of your production to the SEC.

General requirements for ALL document productions are:

- 1. A cover letter must be included with each production and should include the following information:
 - a. Case number, case name and requesting SEC staff member name
 - b. A list of each piece of media included in the production with its unique production volume number
 - c. A list of custodians, identifying the Bates range for each custodian
 - d. A list of redacted documents and the redaction reason
 - e. The time zone in which the emails were standardized during conversion
 - Whether the production contains native files produced from Mac operating system environments
- Data can be produced on CD, DVD, thumb drive, etc., using the media requiring the least number of deliverables and labeled with the following:
 - a. Case number
 - b. Production date
 - c. Producing party
 - d. Bates range (if applicable)
- All submissions must be organized by **custodian** unless otherwise instructed.
- 4. All document family groups, i.e. email attachments, embedded files, etc., should be produced together and children files should follow parent files sequentially in the Bates numbering.
- All load-ready collections should include only one data load file and one image pointer file.
- All load-ready text must be produced as separate document-level text files.
- All load-ready collections should account for custodians in the custodian field.
- All load-ready collections must provide the extracted contents of any container files to ensure all relevant files are produced as separate records.
- 9. Audio files should be separated from data files if both are included in the production.
- 10. Only alphanumeric characters and the underscore character are permitted in file names and folder names. Special characters are not permitted.
- 11. All electronic productions submitted on media must be produced using industry standard self-extracting encryption software.
- 12. The SEC uses 7zip to access compressed files. Note that the SEC cannot accept files that use AES-256 Jpeg or pkAES-256-Cert Deflate compression methods, even if the files are created with 7zip. If you have any questions or need additional information, please reach out to the requesting SEC staff member.
- 13. Electronic productions of 30 GB or less are strongly encouraged to be submitted via Secure File Transfer. All Secure File Transfers should be sent to the SEC Centralized Production Unit (ENF-CPU@sec.gov) with a CC to the requesting SEC staff member. If you do not have your own Secure File Transfer application, you may reach out to the requesting SEC staff member for a link to the SEC system in order to upload your production. If using the SEC Secure File Transfer system, you will NOT be able to CC individuals outside the SEC on your upload transmission. Note that the SEC cannot accept productions made using file sharing sites such as Google Drive or Microsoft Office 365.
- 14. Productions containing BSA or SAR material must be encrypted. Secure File Transfer applications may be used to produce BSA or SAR material. BSA or SAR material should be segregated and appropriately marked as BSA or SAR, or should be produced separately from other case related records.
- 15. Passwords for electronic documents, files, compressed archives and encrypted media must be provided separately either via email or in a cover letter apart from the media.
- 16. All electronic productions should be produced free of computer viruses.
- 17. Before producing forensically collected images, parties should reach out to the requesting SEC staff member in order to discuss appropriate handling.

- 18. Before producing unique data sets (large sets of relational data, website reconstruction, chat room data, etc.), parties should reach out to the requesting SEC staff member in order to discuss an appropriate production format.
- 19. Additional technical descriptions can be found in the addendum to this document.

Please note that productions sent to the SEC via United States Postal Service are subject to Mail Irradiation, and as a result electronic productions may be damaged.

Delivery Formats

Imaged Productions

The SEC prefers that all scanned paper and electronic file collections be produced in a structured format including industry standard load files, Bates numbered image files, native files and searchable document-level text files. Bates numbers should not contain spaces. Hyphens (-) and underscores () are acceptable.

1. Images

- a. Black and white images must be 300 DPI Group IV single-page TIFF files
- b. Color images must be produced in JPEG format
- c. File names cannot contain embedded spaces or special characters (including the comma)
- d. Folder names cannot contain embedded spaces or special characters (including the comma)
- e. All image files must have a unique file name, i.e. Bates number
- f. Images must be endorsed with sequential Bates numbers in the lower right corner of each image
- The number of image files per folder should not exceed 2,000 files g.
- h. Excel spreadsheets should have a placeholder image named by the Bates number of the file
- AUTOCAD/photograph files should be produced as a single page JPEG file

2. Image Cross-Reference File

The image cross-reference file (LOG or .OPT) links the images to the database records. It should be a comma-delimited file consisting of seven fields per line with a line in the cross-reference file for every image in the database with the following format:

ImageID, VolumeLabel, ImageFilePath, DocumentBreak, FolderBreak, BoxBreak, PageCount

3. Data File

The data file (.DAT) contains all of the fielded information that will be loaded into the database.

- The first line of the .DAT file must be a header row identifying the field names
- The .DAT file must use the following *Concordance*® default delimiters:

Comma ¶ ASCII character (020)

Quote b ASCII character (254)

- c. If the .DAT file is produced in Unicode format it must contain the byte order marker
- d. Date fields should be provided in the format: mm/dd/yyyy
- Date and time fields must be two separate fields
- f. The time zone must be included in all time fields
- If the production includes imaged emails and attachments, the attachment fields must be included to preserve the parent/child relationship between an email and its attachments
- An OCRPATH field must be included to provide the file path and name of the extracted text file on the produced storage media. The text file must be named after the FIRSTBATES. Do not include the text in the .DAT file.
- í. For productions with native files, a LINK field must be included to provide the file path and name of the native file on the produced storage media. The native file must be named after the FIRSTBATES.
- BEGATTACH and ENDATTACH fields must be two separate fields
- k. A complete list of metadata fields is available in Addendum A to this document

Text

Text must be produced as separate document-level text files, not as fields within the .DAT file. The text files must be named per the FIRSTBATES/Image Key and the full path to the text file (OCRPATH) should be included in the .DAT file. Text files may be in either ANSI or Unicode format, however, ALL text files must be in the same format within the same production. Note that productions containing text with foreign characters must produce text files in Unicode format to preserve the foreign characters. Text files must be in a separate folder, and the number of text files per folder should not exceed 2,000 files. There should be no special characters (including commas) in the folder names. For redacted documents, provide the full text for the redacted version.

Linked Native Files

Copies of original email and native file documents/attachments must be included for all electronic productions.

- a. Native file documents must be named per the FIRSTBATES number
- The full path of the native file must be provided in the .DAT file for the LINK field
- The number of native files per folder should not exceed 2,000 files

II. Native File Production without Load Files

With prior approval, native files may be produced without load files. Native file productions should not be Bates numbered. Native files must be produced as they are maintained in the normal course of business and organized by custodian-named file folders. Native email files (.PST or .MBOX) must be separated by custodian.

III. Adobe PDF File Production

With prior approval, Adobe PDF files may be produced in native file format.

- 1. All PDFs must be unitized at the document level, i.e. each PDF must represent a discrete document.
- 2. PDF files should be produced in separate folders named by the custodian. The folders should not contain any special characters (including commas).
- 3. All PDF files must contain embedded text that includes all discernible words within the document, not selected text or image only. This requires all layers of the PDF to be flattened first.
- 4. If PDF files are Bates endorsed, the PDF files must be named by the Bates range.

IV. Audio Files

Audio files from telephone recording systems must be produced in a format that is playable using Microsoft Windows Media PlayerTM. Additionally, the call information (metadata) related to each audio recording MUST be provided. The metadata file must be produced in a delimited text format. Field names must be included in the first row of the text file. The metadata must include, at a minimum, the following fields:

1) Caller Name: Caller's name or account/identification number

2) Originating Number: Caller's phone number3) Called Party Name: Called party's name

4) Terminating Number: Called party's phone number

5) Date: Date of call6) Time: Time of call

7) Filename: Filename of audio file

V. Video Files

Video files must be produced in a format that is playable using Microsoft Windows Media PlayerTM.

VI. Electronic Trade and Bank Records

When producing electronic trade records, bank records, or financial statements, provide the files in one of the following formats:

- 1. MS Excel spreadsheet with header information detailing the field structure. If any special codes exist in the dataset, a separate document must be provided that details all such codes. If details of the field structure do not fit in the header, a separate document must be provided that includes such details.
- 2. Delimited text file with header information detailing the field structure. The preferred delimiter is a vertical bar "|". If any special codes exist in the dataset, a separate document must be provided that details all such codes. If details of the field structure do not fit in the header, a separate document must be provided that includes such details.

VII. Electronic Phone Records

When producing an MS Excel spreadsheet for electronic phone records, provide the files in the following format:

- 1. MS Excel spreadsheet with header information detailing the field structure. If any special codes exist in the dataset, a separate document must be provided that details all such codes. If details of the field structure do not fit in the header, a separate document must be provided that includes such details. Data must be formatted in its native format (i.e. dates in a date format, numbers in an appropriate numerical format, and numbers with leading zeroes as text).
 - a. The metadata that must be included is outlined in **Addendum B** of this document. Each field of data must be loaded into a separate column. For example, Date and Start_Time must be produced in separate columns and not combined into a single column containing both pieces of information. Any fields of data that are provided in addition to those listed in **Addendum B** must also be loaded into separate columns.

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Data Delivery Standards

VIII. Audit Workpapers

The SEC prefers for workpapers to be produced in two formats: (1) With Bates numbers in accordance with the SEC Data Delivery Standards; and (2) in native format via laptop computer, web-based viewing platform, or otherwise, allowing for viewing in the same format and organization as the firm's audit team. Prior to production of workpapers via laptop computer or web-based viewing platform, audit firms should contact the requesting SEC staff member for additional information and written agreements addressing use of software, access, and viewing protocols.

IX. Mobile Device Data

Before producing any mobile device data (including but not limited to text messages and application data) parties should reach out to the requesting SEC staff member in order to discuss the appropriate production format. Productions containing chat data from applications must be identified at the time of production and the following information must be provided to the requesting SEC staff member and the SEC Centralized Production Unit: chat application, chat data format, and how the length of a chat is determined (i.e. set duration of time, number of minutes without messages, etc.)

ADDENDUM A

The metadata of electronic document collections should be extracted and provided in a .DAT file using the field definition and formatting described below:

Field Name	Sample Data	Description
FIRSTBATES	EDC0000001	First Bates number of native file document/email
LASTBATES	EDC0000001	Last Bates number of native file document/email
		**The LASTBATES field should be populated
		for single page documents/emails.
ATTACHRANGE	EDC0000001 - EDC0000015	Bates number of the first page of the parent
		document to the Bates number of the last page of the
		last attachment "child" document
BEGATTACH	EDC0000001	First Bates number of attachment range
ENDATTACH	EDC0000015	Last Bates number of attachment range
PARENT BATES	EDC0000001	First Bates number of parent document/Email
		**This PARENT BATES field should be populated
		in each record representing an attachment "child"
OTHER BARRES	EB COOCCE EB COOCCE	document
CIIILD BATES	EDC0000002; EDC0000014	First Bates number of "child" attachment(s); can be
		more than one Bates number listed depending on the number of attachments
		**The CHILD_BATES field should be populated in
		each record representing a "parent" document
CUSTODIAN	Smith, John	Email: Mailbox where the email resided
COSTODIAN	Sundi, John	Native: Name of the individual or department from
		whose files the document originated
FROM	John Smith	Email: Sender
1 KOW	John Shilli	Native: Author(s) of document
		**semi-colon should be used to separate multiple
		entries
TO	Coffman, Janice; LeeW	Recipient(s)
	[mailto:LeeW@MSN.com]	**semi-colon should be used to separate multiple
	-	entries
CC	Frank Thompson [mailto:	Carbon copy recipient(s)
	frank Thompson@cdt.com]	**semi-colon should be used to separate multiple
		entries
BCC	John Cain	Blind carbon copy recipient(s)
		**semi-colon should be used to separate multiple
		entries
SUBJECT	Board Meeting Minutes	Email: Subject line of the email
		Native: Title of document (if available)
FILE_NAME	BoardMeetingMinutes.docx	Native: Name of the original native file, including
		extension
DATE_SENT	10/12/2010	Email: Date the email was sent
		Native: (empty)
TIME_SENT/TIME	07:05 PM GMT	Email: Time the email was sent/ Time zone in which
_ZONE		the emails were standardized during conversion.
		Native: (empty)
		**This data must be a separate field and cannot be combined with the DATE SENT field
		combined with the DATE SENT field

TIME ZONE	GMT	The time zone in which the emails were standardized
THATE_ZOINE	G.VII	during conversion.
		Email: Time zone
		Native: (empty)
LINK	D:\001\EDC0000001.msg	Hyperlink to the email or native file document
		**The linked file must be named per the
		FIRSTBATES number
MIME TYPE	application/msword	The content type of an email or native file document
		as identified/extracted from the header
FILE EXTEN	MSG	The file type extension representing the email or
		native file document; will vary depending on the
		format
AUTHOR	John Smith	Email: (empty)
		Native: Author of the document
LAST_AUTHOR	Jane Doe	Email: (empty)
		Native: Last Author of the document
DATE_CREATED	10/10/2010	Email: (empty)
		Native: Date the document was created
TIME_CREATED/T	10:25 AM GMT	Email: (empty)
IME ZONE		Native: Time the document was created including time
		zone
		**This data must be a separate field and cannot be
		combined with the DATE_CREATED field
DATE_MOD	10/12/2010	Email: (empty)
		Native: Date the document was last modified
TIME_MOD/TIME_	07:00 PM GMT	Email: (empty)
ZONE		Native: Time the document was last modified including
		the time zone
		**This data must be a separate field and cannot be
		combined with the DATE_MOD field
DATE_ACCESSD	10/12/2010	Email: (empty)
		Native: Date the document was last accessed
TIME_ACCESSD/T	07:00 PM GMT	Email: (empty)
IME ZONE		Native: Time the document was last accessed including
		the time zone
		**This data must be a separate field and cannot be
		combined with the DATE_ACCESSD field
PRINTED_DATE	10/12/2010	Email: (empty)
		Native: Date the document was last printed
FILE_SIZE	5,952	Size of native file document/email in KB
PGCOUNT	I	Number of pages in native file document/email
PATH	J:\Shared\SmithJ\October	Email: (empty)
	Agenda.doc	Native: Path where native file document was stored
		including original file name.
INTFILEPATH	Personal Folders\Deleted	Email: original location of email including original
	Items\Board Meeting	file name.
	Minutes.msg	Native: (empty)
INTMSGID	<000805c2c71b\$75977050\$cb	Email: Unique Message ID
	8306d1@MSN>	Native: (empty)

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HEADER	Return-Path: <example_from@dc.edu> X-SpamCatcher-Score:1[X] Received:from[136.167.40.119] (HELO dc.edu) by fe3.dc.edu (CommuniGate Pro SMTP4.1.8) with ESMTP-TLS id 61258719 for example_to@mail.dc.edu; Mon, 23 Aug 2004 11:40:10 - 0400 Message-ID: <4129F3CA.2020509@dc.edu> Date: Mon, 23 Aug 2005 11:40:36 -400 From: Taylor Evans <example_from@dc.edu> User-Agent:Mozilla/5.0 (Windows;U; Windows NT 5.1; en-US;rv:1.0.1) Gecko/20020823 Netscape/7.0 X-Accept-Language:en-us,en MIME-Version:1.0 To: Jon Smith <example_to@mail.dc.edu> Subject:Business Development Meeting Content-Type: text/plain;charset-us-ascii; format=flowed Content-Transfer-Encoding:7bit</example_to@mail.dc.edu></example_from@dc.edu></example_from@dc.edu>	Email: The email header information Native: (empty) SHA-256 hash value of the document.
SHA256	AD6128C5CA40164AF71A1E FC800E12D2F195CE07BB5F8 C813B0888A2DDE6A06F	STA-230 hash value of the document.
OCRPATH	TEXT/001/EDC0000001.txt	Path to extracted text of the native file

Sample Image Cross-Reference File:

IMG000001,,E:\001\IMG0000001.TIF,Y,,,
IMG0000002,,E:\001\IMG0000002.TIF,,,,
IMG0000003,,E:\001\IMG0000003.TIF,,,,
IMG0000004,,E:\001\IMG0000005.TIF,Y,,,
IMG0000005,,E:\001\IMG0000005.TIF,Y,,,
IMG0000006,,E:\001\IMG0000006.TIF,,,,,

ADDENDUM B

For Electronic Phone Records, include the following fields in separate columns: For Calls:

- 1) Account Number
- 2) Connection Date Date the call was received or made
- 3) Connection Time Time call was received or made
- 4) Seizure Time Time it took for the call to be placed in seconds
- 5) Originating Number Phone that placed the call
- 6) Terminating Number Phone that received the call
- 7) Elapsed Time The length of time the call lasted, preferably in seconds
- 8) End Time The time the call ended
- 9) Number Dialed Actual number dialed
- 10) IMEI Originating Unique id to phone used to make call
- 11) IMEI Terminating- Unique id to phone used to receive call
- 12) IMSI Originating Unique id to phone used to make call
- 13) IMSI Terminating- Unique id to phone used to receive call
- 14) Call Codes Identify call direction or other routing information
- 15) Time Zone Time Zone in which the call was received or placed, if applicable

For Text messages:

- 1) Account Number
- Connection Date Date the text was received or made
- 3) Connection Time Time text was received or made
- 4) Originating Number Who placed the text
- 5) Terminating Number Who received the text
- 6) IMEI Originating Unique id to phone used to make text
- 7) IMEI Terminating Unique id to phone used to receive text
- 8) IMSI Originating Unique id to phone used to make text
- 9) IMSI Terminating- Unique id to phone used to receive text
- 10) Text Code Identify text direction, or other text routing information
- 11) Text Type Code Type of text message (sent SMS, MMS, or other)
- 12) Time Zone Time Zone in which the call was received or placed, if applicable

For Mobile Data Usage:

- 1) Account Number
- 2) Connection Date Date the data was received or made
- 3) Connection Time Time data was received or made
- 4) Originating number Number that used data
- 5) IMEI Originating Unique id of phone that used data
- 6) IMSI Originating Unique id of phone that used data
- 7) Data or Data codes Identify data direction, or other data routing information
- 8) Time Zone Time Zone in which the call was received or placed, if applicable

SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549

Supplemental Information for Persons Requested to Supply Information Voluntarily or Directed to Supply Information Pursuant to a Commission Subpoena

A. False Statements and Documents

Section 1001 of Title 18 of the United States Code provides that fines and terms of imprisonment may be imposed upon:

[W]hoever, in any matter within the jurisdiction of the executive, legislative, or judicial branch of the Government of the United States, knowingly and willfully--

- (1) falsifies, conceals, or covers up by any trick, scheme, or device a material fact;
- (2) makes any materially false, fictitious, or fraudulent statement or representation; or
- (3) makes or uses any false writing or document knowing the same to contain any materially false, fictitious, or fraudulent statement or entry.

Section 1519 of Title 18 of the United States Code provides that fines and terms of imprisonment may be imposed upon:

Whoever knowingly alters, destroys, mutilates, conceals, covers up, falsifies, or makes a false entry in any record, document, or tangible object with the intent to impede, obstruct, or influence the investigation or proper administration of any matter within the jurisdiction of any department or agency of the United States . . ., or in relation to or contemplation of any such matter.

B. Testimony

If your testimony is taken, you should be aware of the following:

- 1. Record. Your testimony will be transcribed by a reporter. If you desire to go off the record, please indicate this to the Commission employee taking your testimony, who will determine whether to grant your request. The reporter will not go off the record at your, or your counsel's, direction.
- 2. Counsel. You have the right to be accompanied, represented and advised by counsel of your choice. Your counsel may advise you before, during and after your testimony; question you briefly at the conclusion of your testimony to clarify any of the answers you give during testimony; and make summary notes during your testimony solely for your use. If you are accompanied by counsel, you may consult privately.

If you are not accompanied by counsel, please advise the Commission employee taking your testimony if, during the testimony, you desire to be accompanied, represented and advised by counsel. Your testimony will be adjourned once to afford you the opportunity to arrange to be so accompanied, represented or advised.

You may be represented by counsel who also represents other persons involved in the Commission's investigation. This multiple representation, however, presents a potential conflict of interest if one client's interests are or may be adverse to another's. If you are represented by counsel who also represents other persons involved in the investigation, the Commission will assume that you and counsel have discussed and resolved all issues concerning possible conflicts of interest. The choice of counsel, and the responsibility for that choice, is yours.

3. Transcript Availability. Rule 6 of the Commission's Rules Relating to Investigations, 17 CFR 203.6, states:

A person who has submitted documentary evidence or testimony in a formal investigative proceeding shall be entitled, upon written request, to procure a copy of his documentary evidence or a transcript of his testimony on payment of the appropriate fees: *Provided, however*, That in a nonpublic formal investigative proceeding the Commission may for good cause deny such request. In any event, any witness, upon proper identification, shall have the right to inspect the official transcript of the witness' own testimony.

If you wish to purchase a copy of the transcript of your testimony, the reporter will provide you with a copy of the appropriate form. Persons requested to supply information voluntarily will be allowed the rights provided by this rule.

4. Perjury. Section 1621 of Title 18 of the United States Code provides that fines and terms of imprisonment may be imposed upon:

Whoever--

- (1) having taken an oath before a competent tribunal, officer, or person, in any case in which a law of the United States authorizes an oath to be administered, that he will testify, declare, depose, or certify truly, or that any written testimony, declaration, deposition, or certificate by him subscribed, is true, willfully and contrary to such oath states or subscribes any material matter which he does not believe to be true; or
- (2) in any declaration, certificate, verification, or statement under penalty of periury as permitted under section 1746 of title 28. United States Code, willfully subscribes as true any material matter which he does not believe to be true.
- 5. Fifth Amendment and Voluntary Testimony. Information you give may be used against you in any federal, state, local or foreign administrative, civil or criminal proceeding brought by the Commission or any other agency.

You may refuse, in accordance with the rights guaranteed to you by the Fifth Amendment to the Constitution of the United States, to give any information that may tend to incriminate you.

If your testimony is not pursuant to subpoena, your appearance to testify is voluntary, you need not answer any question, and you may leave whenever you wish. Your cooperation is, however, appreciated.

Formal Order Availability. If the Commission has issued a formal order of investigation, it will be shown to you during your testimony, at your request. If you desire a copy of the formal order, please make your request in writing.

C. Submissions and Settlements

Rule 5(c) of the Commission's Rules on Informal and Other Procedures, 17 CFR 202.5(c), states:

Persons who become involved in . . . investigations may, on their own initiative, submit a written statement to the Commission setting forth their interests and position in regard to the subject matter of the investigation. Upon request, the staff, in its discretion, may advise such persons of the general nature of the investigation, including the indicated violations as they pertain to them, and the amount of time that may be available for preparing and submitting a statement prior to the presentation of a staff recommendation to the Commission for the commencement of an administrative or injunction proceeding. Submissions by interested persons should be forwarded to the appropriate Division Director or Regional Director with a copy to the staff members conducting the investigation and should be clearly referenced to the specific investigation to which they relate. In the event a recommendation for the commencement of an enforcement proceeding is presented by the staff, any submissions by interested persons will be forwarded to the Commission in conjunction with the staff memorandum.

The staff of the Commission routinely seeks to introduce submissions made pursuant to Rule 5(c) as evidence in Commission enforcement proceedings, when the staff deems appropriate.

Rule 5(f) of the Commission's Rules on Informal and Other Procedures, 17 CFR 202.5(f), states:

In the course of the Commission's investigations, civil lawsuits, and administrative proceedings, the staff, with appropriate authorization, may discuss with persons involved the disposition of such matters by consent, by settlement, or in some other manner. It is the policy of the Commission, however, that the disposition of any such matter may not, expressly or impliedly, extend to any criminal charges that have been, or may be, brought against any such person or any recommendation with respect thereto. Accordingly, any person involved in an enforcement matter before the Commission who consents, or agrees to consent, to any judgment or order does so solely for the purpose of resolving the claims against him in that investigative, civil, or administrative matter and not for the purpose of resolving any criminal charges that have been, or might be, brought against him. This policy reflects the fact that neither the Commission nor its staff has the authority or responsibility for instituting, conducting, settling, or otherwise disposing of criminal proceedings. That authority and responsibility are vested in the Attorney General and representatives of the Department of Justice.

D. Freedom of Information Act

The Freedom of Information Act, 5 U.S.C. 552 (the "FOIA"), generally provides for disclosure of information to the public. Rule 83 of the Commission's Rules on Information and Requests, 17 CFR 200.83, provides a procedure by which a person can make a written request that information submitted to the Commission not be disclosed under the FOIA. That rule states that no determination as to the validity of such a request will be made until a request for disclosure of the information under the FOIA is received. Accordingly, no response to a request that information not be disclosed under the FOIA is necessary or will be given until a request for disclosure under the FOIA is received. If you desire an acknowledgment of receipt of your written request that information not be disclosed under the FOIA, please provide a duplicate request, together with a stamped, self-addressed envelope.

E. Authority for Solicitation of Information

Persons Directed to Supply Information Pursuant to Subpoena. The authority for requiring production of information is set forth in the subpoena. Disclosure of the information to the Commission is mandatory, subject to the valid assertion of any legal right or privilege you might have.

Persons Requested to Supply Information Voluntarily. One or more of the following provisions authorizes the Commission to solicit the information requested: Sections 19 and/or 20 of the Securities Act of 1933; Section 21 of the Securities Exchange Act of 1934; Section 321 of the Trust Indenture Act of 1939; Section 42 of the Investment Company Act of 1940; Section 209 of the Investment Advisers Act of 1940; and 17 CFR 202.5. Disclosure of the requested information to the Commission is voluntary on your part.

F. Effect of Not Supplying Information

Persons Directed to Supply Information Pursuant to Subpoena. If you fail to comply with the subpoena, the Commission may seek a court order requiring you to do so. If such an order is obtained and you thereafter fail to supply the information, you may be subject to civil and/or criminal sanctions for contempt of court. In addition, Section 21(c) of the Securities Exchange Act of 1934, Section 42(c) of the Investment Company Act of 1940, and Section 209(c) of the Investment Advisers Act of 1940 provide that fines and terms of imprisonment may be imposed upon any person who shall, without just cause, fail or refuse to attend and testify or to answer any lawful inquiry, or to produce books, papers, correspondence, memoranda, and other records in compliance with the subpoena.

Persons Requested to Supply Information Voluntarily. There are no direct sanctions and thus no direct effects for failing to provide all or any part of the requested information.

G. Principal Uses of Information

The Commission's principal purpose in soliciting the information is to gather facts in order to determine whether any person has violated, is violating, or is about to violate any provision of the federal securities laws or rules for which the Commission has enforcement authority, such as rules of securities exchanges and the rules of the Municipal Securities Rulemaking Board. Facts developed may, however, constitute violations of other laws or rules. Information provided may be used in Commission and other agency enforcement proceedings. Unless the Commission or its staff explicitly agrees to the contrary in writing, you should not assume that the Commission or its staff acquiesces in, accedes to, or concurs or agrees with, any position, condition, request, reservation of right, understanding, or any other statement that purports, or may be deemed, to be or to reflect a limitation upon the Commission's receipt, use, disposition, transfer, or retention, in accordance with applicable law, of information provided.

H. Routine Uses of Information

The Commission often makes its files available to other governmental agencies, particularly United States Attorneys and state prosecutors. There is a likelihood that information supplied by you will be made available to such agencies where appropriate. Whether or not the Commission makes its files available to other governmental agencies is, in general, a confidential matter between the Commission and such other governmental agencies.

Set forth below is a list of the routine uses which may be made of the information furnished.

- 1. To appropriate agencies, entities, and persons when (1) the SEC suspects or has confirmed that there has been a breach of the system of records, (2) the SEC has determined that as a result of the suspected or confirmed breach there is a risk of harm to individuals, the SEC (including its information systems, programs, and operations), the Federal Government, or national security; and (3) the disclosure made to such agencies, entities, and persons is reasonably necessary to assist in connection with the SEC's efforts to respond to the suspected or confirmed breach or to prevent, minimize, or remedy such harm.
- 2. To other Federal, state, local, or foreign law enforcement agencies; securities self-regulatory organizations; and foreign financial regulatory authorities to assist in or coordinate regulatory or law enforcement activities with the SEC.
- 3. To national securities exchanges and national securities associations that are registered with the SEC, the Municipal Securities Rulemaking Board; the Securities Investor Protection Corporation; the Public Company Accounting Oversight Board; the Federal banking authorities, including, but not limited to, the Board of Governors of the Federal Reserve System, the Comptroller of the Currency, and the Federal Deposit Insurance Corporation; state securities regulatory agencies or organizations; or regulatory authorities of a foreign government in connection with their regulatory or enforcement responsibilities.
- 4. By SEC personnel for purposes of investigating possible violations of, or to conduct investigations authorized by, the Federal securities laws.
- 5. In any proceeding where the Federal securities laws are in issue or in which the Commission, or past or present members of its staff, is a party or otherwise involved in an official capacity.

- 6. In connection with proceedings by the Commission pursuant to Rule 102(e) of its Rules of Practice, 17 CFR 201.102(e).
- 7. To a bar association, state accountancy board, or other Federal, state, local, or foreign licensing or oversight authority; or professional association or self-regulatory authority to the extent that it performs similar functions (including the Public Company Accounting Oversight Board) for investigations or possible disciplinary action.
- 8. To a Federal, state, local, tribal, foreign, or international agency, if necessary to obtain information relevant to the SEC's decision concerning the hiring or retention of an employee; the issuance of a security clearance; the letting of a contract; or the issuance of a license, grant, or other benefit.
- 9. To a Federal, state, local, tribal, foreign, or international agency in response to its request for information concerning the hiring or retention of an employee; the issuance of a security clearance; the reporting of an investigation of an employee; the letting of a contract; or the issuance of a license, grant, or other benefit by the requesting agency, to the extent that the information is relevant and necessary to the requesting agency's decision on the matter.
- 10. To produce summary descriptive statistics and analytical studies, as a data source for management information, in support of the function for which the records are collected and maintained or for related personnel management functions or manpower studies; may also be used to respond to general requests for statistical information (without personal identification of individuals) under the Freedom of Information Act.
- 11. To any trustee, receiver, master, special counsel, or other individual or entity that is appointed by a court of competent jurisdiction, or as a result of an agreement between the parties in connection with litigation or administrative proceedings involving allegations of violations of the Federal securities laws (as defined in section 3(a)(47) of the Securities Exchange Act of 1934, 15 U.S.C. 78c(a)(47)) or pursuant to the Commission's Rules of Practice, 17 CFR 201.100 through 900 or the Commission's Rules of Fair Fund and Disgorgement Plans, 17 CFR 201.1100 through 1106, or otherwise, where such trustee, receiver, master, special counsel, or other individual or entity is specifically designated to perform particular functions with respect to, or as a result of, the pending action or proceeding or in connection with the administration and enforcement by the Commission of the Federal securities laws or the Commission's Rules of Practice or the Rules of Fair Fund and Disgorgement Plans.
- 12. To any persons during the course of any inquiry, examination, or investigation conducted by the SEC's staff, or in connection with civil litigation, if the staff has reason to believe that the person to whom the record is disclosed may have further information about the matters related therein, and those matters appeared to be relevant at the time to the subject matter of the inquiry.
- 13. To interns, grantees, experts, contractors, and others who have been engaged by the Commission to assist in the performance of a service related to this system of records and who need access to the records for the purpose of assisting the Commission in the efficient administration of its programs, including by performing clerical, stenographic, or data analysis functions, or by reproduction of records by electronic or other means. Recipients of these records shall be required to comply with the requirements of the Privacy Act of 1974, as amended, 5 U.S.C. 552a.
- 14. In reports published by the Commission pursuant to authority granted in the Federal securities laws (as such term is defined in section 3(a)(47) of the Securities Exchange Act of 1934, 15 U.S.C. 78c(a)(47)), which authority shall include, but not be limited to, section 21(a) of the Securities Exchange Act of 1934, 15 U.S.C. 78u(a)).
- 15. To members of advisory committees that are created by the Commission or by Congress to render advice and recommendations to the Commission or to Congress, to be used solely in connection with their official designated functions.
- 16. To any person who is or has agreed to be subject to the Commission's Rules of Conduct, 17 CFR 200.735-1 through 200.735-18, and who assists in the investigation by the Commission of possible violations of the Federal securities laws (as such term is defined in section 3(a)(47) of the Securities Exchange Act of 1934, 15 U.S.C. 78c(a)(47)), in the preparation or conduct of enforcement actions brought by the Commission for such violations, or otherwise in connection with the Commission's enforcement or regulatory functions under the Federal securities laws.
- 17. To a Congressional office from the record of an individual in response to an inquiry from the Congressional office made at the request of that individual.
- 18. To members of Congress, the press, and the public in response to inquiries relating to particular Registrants and their activities, and other matters under the Commission's jurisdiction.
- 19. To prepare and publish information relating to violations of the Federal securities laws as provided in 15 U.S.C. 78c(a)(47)), as amended.
- 20. To respond to subpoenas in any litigation or other proceeding.

- 21. To a trustee in bankruptcy.
- 22. To any governmental agency, governmental or private collection agent, consumer reporting agency or commercial reporting agency, governmental or private employer of a debtor, or any other person, for collection, including collection by administrative offset, Federal salary offset, tax refund offset, or administrative wage garnishment, of amounts owed as a result of Commission civil or administrative proceedings.
- 23. To another Federal agency or Federal entity, when the SEC determines that information from this system of records is reasonably necessary to assist the recipient agency or entity in (1) responding to a suspected or confirmed breach or (2) preventing, minimizing, or remedying the risk of harm to individuals, the recipient agency or entity (including its information systems, programs, and operations), the Federal Government, or national security, resulting from a suspected or confirmed breach.

* * * * *

Small Business Owners: The SEC always welcomes comments on how it can better assist small businesses. If you would like more information, or have questions or comments about federal securities regulations as they affect small businesses, please contact the Office of Small Business Policy, in the SEC's Division of Corporation Finance, at 202-551-3460. If you would prefer to comment to someone outside of the SEC, you can contact the Small Business Regulatory Enforcement Ombudsman at http://www.sba.gov/ombudsman or toll free at 888-REG-FAIR. The Ombudsman's office receives comments from small businesses and annually evaluates federal agency enforcement activities for their responsiveness to the special needs of small business.



UNITED STATES SECURITIES AND EXCHANGE COMMISSION

100 PEARL STREET, SUITE 20-100 NEW YORK, NY 10004-2616

DIVISION OF ENFORCEMENT

March 12, 2024

VIA UPS

(b)(6); (b)(7)(C)		

Re: C-08950

Dear (b)(6); (b)(7)(C)

The enclosed subpoena has been issued pursuant to a formal order entered by the United States Securities and Exchange Commission. Pursuant to Rule 8 of the United States Securities and Exchange Commission's Rules Relating to Investigations, 17 C.F.R. § 203.8, I have enclosed a subpoena for documents issued to you, in connection with the above-referenced investigation.

The enclosed subpoena requires you to produce documents to the SEC by March 26, 2024. Please deliver the materials to:

ENF-CPU
U.S. Securities and Exchange Commission
14420 Albemarle Point Place, Suite 102
Chantilly, VA 20151-1750

For smaller electronic productions under 10MB in size, the materials may be emailed to the following email address: ENF-CPU@sec.gov.

Please also provide a duplicate copy of any document production cover letters to me at (b)(6); (b)(7)(C) Esec.gov. Additionally, please include the SEC matter number and the name of the requesting attorney when responding.

Please carefully read the subpoena attachment, which contains, among other things, important instructions related to the manner of producing documents. In particular, if you prefer to send us copies of original documents, the staff requests that you scan and produce hard copy documents, as well as electronic documents, in an electronic format consistent with the SEC Data Delivery Standards attached hereto. All electronic documents responsive to

In your cover letter(s) accompanying the production of responsive documents, please enclose a list briefly describing each item you send. The list should identify the paragraph(s) in the subpoena attachment to which each item responds. Please also state in the cover letter(s) whether you believe you have met the obligations of the subpoena by searching carefully and thoroughly for everything called for by the subpoena, and sending it all to us.

A copy of the subpoena should be included with the documents that are produced. Correspondence should reference case number, case name and requesting SEC staff member.

Passwords for documents, files, compressed archives, and encrypted media should be provided separately either via email addressed to ENF-CPU@sec.gov, or in a separate cover letter mailed separately from the data. Password correspondence should reference case number, case name and requesting SEC staff member.

Please also provide a narrative description describing what was done to identify and collect documents responsive to the subpoena. At a minimum, the narrative should describe:

- who searched for documents;
- who reviewed documents found to determine whether they were responsive;
- which custodians were searched;
- what sources were searched (e.g., computer files, CDs, DVDs, thumb drives, flash drives, online storage media, hard copy files, diaries, datebooks, planners, filing cabinets, storage facilities, home offices, work offices, voice mails, home email, webmail, work email, backup tapes or other media);
- what search terms, if any, were employed to identify responsive documents;
- what firms and/or persons, if any, assisted in analyzing the data collected;
- what third parties, if any, were contacted to obtain responsive documents (e.g., phone companies for phone records, brokerage firms for brokerage records); and
- where the original electronic and hardcopy documents are maintained and by whom.

In addition, for any documents that qualify as records of regularly conducted activities under Federal Rule of Evidence 902(11), please complete a business records certification (a sample of which is enclosed) and return it with the document production. Execution of this certification may allow the Commission to introduce the documents provided by you in any subsequent judicial proceeding, without requiring your testimony.

Enclosed is a copy of the Commission's Form 1662, entitled "Supplemental Information for Persons Requested to Supply Information Voluntarily or Directed to Supply Information Pursuant to a Commission Subpoena." This form explains how we may use the information that you provide to the Commission and has other important information for you.

This investigation is a non-public, fact-finding inquiry. We are trying to determine whether there have been any violations of the federal securities laws. The investigation does not mean that we have concluded that anyone has violated the law. Also, the investigation does not mean that we have a negative opinion of any person, entity, or security.

If you have any questions or would like to discuss this matter, you may contact me at (b)(6); (b)(7)(C)

Sincerel	y	,
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(b)(6); (b)(7)	(C)
Divisio (b)(6); (b)(7	n of Enforcement
(b)(6); (b)(7)(C)	₿sec.gov

Enclosures: Subpoena and Attachment

SEC Data Delivery Standards

SEC Form 1662

Business Records Certification



SUBPOENA

UNITED STATES OF AMERICA SECURITIES AND EXCHANGE COMMISSION

C-08950

То:	(b)(6); (b)(7)(C)
\boxtimes	YOU MUST PRODUCE everything specified in the Attachment to this subpoena to officers of the Securities and Exchange Commission, at the place, date and time specified below:
	ENF-CPU, U.S. Securities and Exchange Commission, 14420 Albemarle Point Place, Suite 102 Chantilly, VA 20151-1750, no later than March 26, 2024
	YOU MUST TESTIFY before officers of the Securities and Exchange Commission, at the place, date and time specified below:
	FEDERAL LAW REQUIRES YOU TO COMPLY WITH THIS SUBPOENA. If you do not comply with this subpoena, the SEC may bring an action in Federal Court to enforce this subpoena. Failure to comply with a court order enforcing this subpoena may result in the court imposing a fine, imprisonment, or both.
By:	U.S. Securities and Exchange Commission New York Regional Office Date: March 12, 2024
	100 Pearl Street, Suite 20-100 New York, NY 10004-2616

I am an officer of the U.S. Securities and Exchange Commission authorized to issue subpoenas in this matter. The Securities and Exchange Commission has issued a formal order authorizing this investigation under Section 20(a) of the Securities Act of 1933.

NOTICE TO WITNESS: If you claim a witness fee or mileage, submit this subpoena with the claim voucher.

SUBPOENA ATTACHMENT FOR C-08950

March 12, 2024

Definitions

As used in this subpoena, the words and phrases listed below shall have the following meanings:

- 1. "Ethereum Cat Herders" or "ECH" means the group operating under the name "Ethereum Cat Herders", including parents, subsidiaries, affiliates, predecessors, successors, officers, directors, employees, agents, general partners, limited partners, partnerships and aliases, code names, or trade or business names used by any of the foregoing.
- 2. "Document" shall include, but is not limited to, any written, printed, or typed matter including, but not limited to all drafts and copies bearing notations or marks not found in the original, letters and correspondence, interoffice communications, slips, tickets, records, worksheets, financial records, accounting documents, bookkeeping documents, memoranda, reports, manuals, telephone logs, facsimiles, messages of any type, telephone messages, text messages, voice mails, tape recordings, notices, instructions, minutes, summaries, notes of meetings, file folder markings, and any other organizational indicia, purchase orders, information recorded by photographic process, including microfilm and microfiche, computer printouts, spreadsheets, and other electronically stored information, including but not limited to writings, drawings, graphs, charts, photographs, sound recordings, images, and other data or data compilations that are stored in any medium from which information can be retrieved, obtained, manipulated, or translated.
- 3. "Communication" means any correspondence, contact, discussion, e-mail, instant message, or any other kind of oral or written exchange or transmission of information (in the form of facts, ideas, inquiries, or otherwise) and any response thereto between two or more Persons or entities, including, without limitation, all telephone conversations, face-to-face meetings or conversations, internal or external discussions, or exchanges of a Document or Documents.
- 4. "Concerning" means directly or indirectly, in whole or in part, describing, constituting, evidencing, recording, evaluating, substantiating, concerning, referring to, alluding to, in connection with, commenting on, relating to, regarding, discussing, showing, describing, analyzing or reflecting.
- 5. An "Agreement" means any actual or contemplated (i) written or oral Agreement; (ii) term or provision of such Agreement; or (iii) amendment of any nature or termination of such Agreement. A request for any Agreement among or between specified parties includes a request for all Documents Concerning (i) any actual or contemplated Agreement among or between such parties, whether or not such Agreement included any other Person; (ii) the drafting or negotiation of any such Agreement; (iii) any actual or

- contemplated demand, request or application for any such Agreement, and any response thereto; and (iv) any actual or contemplated objection or refusal to enter into any such Agreement, and any response thereto.
- 6. The "Ethereum Foundation" means the entity or business doing business under the name Ethereum Foundation, including, but not limited to, ethereum.org, the Ethereum Support Program, and parents, subsidiaries, affiliates, predecessors, successors, officers, directors, employees, agents, general partners, limited partners, partnerships and aliases, owners, code names, or trade or business names used by any of the foregoing.
- 7. "EIP" means Ethereum Improvement Proposal.
- 8. "The Merge" or "Ethereum 2.0" means the transition by the Ethereum blockchain of its consensus mechanism from proof-of-work to proof-of-stake.
- 9. "Bank or Financial Account" means the domestic or foreign bank, brokerage, or financial accounts held, controlled, or used by you or by other people on your behalf. This includes, but is not limited to, accounts that contain currency, securities, or crypto assets.
- 10. The term "you" and "your" means the Person to whom or entity to which this subpoena was issued.
- 11. To the extent necessary to bring within the scope of this this subpoena any information or Documents that might otherwise be construed to be outside its scope:
 - a. the word "or" means "and/or";
 - b. the word "and" means "and/or";
 - c. the functional words "each," "every" "any" and "all" shall each be deemed to include each of the other functional words;
 - d. the masculine gender includes the female gender and the female gender includes the masculine gender; and
 - e. the singular includes the plural and the plural includes the singular.

Instructions

- 1. Unless otherwise specified, this subpoena calls for production of the original Documents and all copies and drafts of same. Documents responsive to this subpoena may be in electronic or paper form. Electronic Documents such as email should be produced in accordance with the attached Document entitled SEC Data Delivery Standards. All responsive electronic Documents, including all metadata, should also be produced in their native software format.
- 2. For Documents in paper format, you may send the originals, or, if you prefer, you may send copies of the originals. The Commission cannot reimburse you for the copying costs. If you are sending copies, the staff requests that you scan (rather than photocopy) hard copy Documents and produce them in an electronic format consistent with the SEC

Data Delivery Standards. Alternatively, you may send us photocopies of the Documents in paper format. If you choose to send copies, you <u>must</u> secure and retain the originals and store them in a safe place. The staff may later request or require that you produce the originals.

- 3. Whether you scan or photocopy Documents, the copies must be identical to the originals, including even faint marks or print. Also, please note that if copies of a Document differ in any way, they are considered separate Documents and you must send each one. For example, if you have two copies of the same letter, but only one of them has handwritten notes on it, you must send both the clean copy and the one with notes.
- 4. In producing a photocopy of an original Document that contains post-it(s), notation flag(s), or other removable markings or attachments which may conceal all or a portion of the markings contained in the original Document, photocopies of the original Document both with and without the relevant post-it(s), notation flag(s), or removable markings or attachments should be produced.
- 5. Documents should be produced as they are kept in the ordinary course of business or be organized and labeled to correspond with the categories in this request. In that regard, Documents should be produced in a unitized manner, i.e., delineated with staples or paper clips to identify the Document boundaries.
- 6. Documents should be labeled with sequential numbering (bates-stamped).
- 7. You must produce all Documents created during, or Concerning, the time period **July 1**, **2018 to the present**, unless otherwise specified.
- 8. The scope of any given request should not be limited or narrowed based on the fact that it calls for Documents that are responsive to another request.
- 9. You are not required to produce exact duplicates of any Documents that have been previously produced to the Securities and Exchange Commission staff in connection with this matter. If you are not producing Documents based upon a prior production, please identify the responsive Documents that were previously produced.
- 10. For any Documents that qualify as records of regularly conducted activities under Federal Rule of Evidence 902(11), please complete a business records certification (a sample of which is enclosed) and return it with the Document production.
- 11. This subpoena covers all Documents in or subject to your possession, custody or control, including all Documents that are not in your immediate possession but that you have the effective ability to obtain, that are responsive, in whole or in part, to any of the individual requests set forth below. If, for any reason including a claim of attorney-client privilege you do not produce something called for by the request, you should submit a list of what you are not producing. The list should describe each item separately, noting:

- a. its author(s);
- b. its date;
- c. its subject matter;
- d. the name of the Person who has the item now, or the last Person known to have it;
- e. the names of everyone who ever had the item or a copy of it, and the names of everyone who was told the item's contents;
- f. the basis upon which you are not producing the responsive Document;
- g. the specific request in the subpoena to which the Document relates;
- h. the attorney(s) and the client(s) involved; and
- i. in the case of the work product doctrine, the litigation for which the Document was prepared in anticipation.
- 12. If Documents responsive to this subpoena no longer exist because they have been lost, discarded, or otherwise destroyed, you should identify such Documents and give the date on which they were lost, discarded or destroyed.

Documents to be Produced

- 1. Documents sufficient to identify former and current ECH members, and their titles, if any.
- 2. All Documents and Communications Concerning (a) The Merge; (b) EIP-1559; (c) EIP-2982; (d) EIP-3675; and (e) EIP-4895.
- 3. All Agreements between you or ECH, on the one hand, and the Ethereum Foundation, on the other hand.
- 4. Documents sufficient to identify any crypto asset wallet addresses or Bank or Financial Accounts belonging to You or ECH, that received any grant or other source of funding from the Ethereum Foundation, as well as the amount of crypto assets or fiat received.
- 5. Documents sufficient to identify all meetings with the Ethereum Foundation, including any Document related to the meetings identified.
- 6. All Documents and Communications Concerning any grant or other source of funding received from the Ethereum Foundation.
- 7. All Documents and Communications Concerning any work conducted by You or ECH pursuant to any grant or other source of funding received from the Ethereum Foundation.
- 8. All Communications with the Ethereum Foundation, including, but not limited to, Communications with board members, consultants, officers, directors, employees, developers, coders, and others performing work on behalf of these entities, related to The Merge.

DECLARATION OF [Insert Name] CERTIFYING RECORDS OF REGULARLY CONDUCTED BUSINESS ACTIVITY

I, the undersigned, [insert name], pursuant to 28 U.S.C. § 1746, declare that:

- 1. I am employed by [insert entity] as [insert position] and by reason of my position am authorized and qualified to make this declaration. [if possible supply additional information as to how person is qualified to make declaration, e.g., I am custodian of records, I am familiar with the company's recordkeeping practices or systems, etc.]
- 2. I further certify that the documents [attached hereto or submitted herewith] and stamped [insert bates range] are true copies of records that were:
 - (a) made at or near the time of the occurrence of the matters set forth therein, by, or from information transmitted by, a person with knowledge of those matters;
 - (b) kept in the course of regularly conducted business activity; and
 - (c) made by the regularly conducted business activity as a regular practice.

I declare under penalty of perjury that the foregoing is true and correct. Executed on [date].

[Name]	



U.S. Securities and Exchange Commission

Data Delivery Standards

This document describes the technical requirements for paper and electronic document productions to the U.S. Securities and Exchange Commission (SEC). **Any questions or proposed file formats other than those described below must be discussed with the legal and technical staff of the SEC Division of Enforcement prior to submission.**

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General Instructions

The current mailing address for all physical productions sent to the SEC is:

ENF-CPU (U.S. Securities & Exchange Commission), 14420 Albemarle Point Place, Suite 102, Chantilly, VA 20151-1750

Electronic files must be produced in their native format, i.e. the format in which they are ordinarily used and maintained during the normal course of business. For example, an MS Excel file must be produced as an MS Excel file rather than an image of a spreadsheet. (Note: An Adobe PDF file is not considered a native file unless the document was initially created as a PDF.)

In the event produced files require the use of proprietary software not commonly found in the workplace, the SEC will explore other format options with the producing party.

The proposed use of file de-duplication methodologies or computer-assisted review or technology-assisted review (TAR) during the processing of documents must be discussed with and approved by the legal and technical staff of the Division of Enforcement (ENF). If your production will be de-duplicated it is vital that you 1) preserve any unique metadata associated with the duplicate files, for example, custodian name and file location and, 2) make that unique metadata part of your production to the SEC.

General requirements for ALL document productions are:

- 1. A cover letter must be included with each production and should include the following information:
 - a. Case number, case name and requesting SEC staff member name
 - b. A list of each piece of media included in the production with its unique production volume number
 - c. A list of custodians, identifying the Bates range for each custodian
 - d. A list of redacted documents and the redaction reason
 - e. The time zone in which the emails were standardized during conversion
 - Whether the production contains native files produced from Mac operating system environments
- Data can be produced on CD, DVD, thumb drive, etc., using the media requiring the least number of deliverables and labeled with the following:
 - a. Case number
 - b. Production date
 - c. Producing party
 - d. Bates range (if applicable)
- All submissions must be organized by **custodian** unless otherwise instructed.
- 4. All document family groups, i.e. email attachments, embedded files, etc., should be produced together and children files should follow parent files sequentially in the Bates numbering.
- All load-ready collections should include only one data load file and one image pointer file.
- All load-ready text must be produced as separate document-level text files.
- All load-ready collections should account for custodians in the custodian field.
- All load-ready collections must provide the extracted contents of any container files to ensure all relevant files are produced as separate records.
- 9. Audio files should be separated from data files if both are included in the production.
- 10. Only alphanumeric characters and the underscore character are permitted in file names and folder names. Special characters are not permitted.
- 11. All electronic productions submitted on media must be produced using industry standard self-extracting encryption software.
- 12. The SEC uses 7zip to access compressed files. Note that the SEC cannot accept files that use AES-256 Jpeg or pkAES-256-Cert Deflate compression methods, even if the files are created with 7zip. If you have any questions or need additional information, please reach out to the requesting SEC staff member.
- 13. Electronic productions of 30 GB or less are strongly encouraged to be submitted via Secure File Transfer. All Secure File Transfers should be sent to the SEC Centralized Production Unit (ENF-CPU@sec.gov) with a CC to the requesting SEC staff member. If you do not have your own Secure File Transfer application, you may reach out to the requesting SEC staff member for a link to the SEC system in order to upload your production. If using the SEC Secure File Transfer system, you will NOT be able to CC individuals outside the SEC on your upload transmission. Note that the SEC cannot accept productions made using file sharing sites such as Google Drive or Microsoft Office 365.
- 14. Productions containing BSA or SAR material must be encrypted. Secure File Transfer applications may be used to produce BSA or SAR material. BSA or SAR material should be segregated and appropriately marked as BSA or SAR, or should be produced separately from other case related records.
- 15. Passwords for electronic documents, files, compressed archives and encrypted media must be provided separately either via email or in a cover letter apart from the media.
- 16. All electronic productions should be produced free of computer viruses.
- 17. Before producing forensically collected images, parties should reach out to the requesting SEC staff member in order to discuss appropriate handling.

- 18. Before producing unique data sets (large sets of relational data, website reconstruction, chat room data, etc.), parties should reach out to the requesting SEC staff member in order to discuss an appropriate production format.
- 19. Additional technical descriptions can be found in the addendum to this document.

Please note that productions sent to the SEC via United States Postal Service are subject to Mail Irradiation, and as a result electronic productions may be damaged.

Delivery Formats

Imaged Productions

The SEC prefers that all scanned paper and electronic file collections be produced in a structured format including industry standard load files, Bates numbered image files, native files and searchable document-level text files. Bates numbers should not contain spaces. Hyphens (-) and underscores () are acceptable.

1. Images

- a. Black and white images must be 300 DPI Group IV single-page TIFF files
- b. Color images must be produced in JPEG format
- c. File names cannot contain embedded spaces or special characters (including the comma)
- d. Folder names cannot contain embedded spaces or special characters (including the comma)
- e. All image files must have a unique file name, i.e. Bates number
- f. Images must be endorsed with sequential Bates numbers in the lower right corner of each image
- The number of image files per folder should not exceed 2,000 files g.
- h. Excel spreadsheets should have a placeholder image named by the Bates number of the file
- AUTOCAD/photograph files should be produced as a single page JPEG file

2. Image Cross-Reference File

The image cross-reference file (LOG or .OPT) links the images to the database records. It should be a comma-delimited file consisting of seven fields per line with a line in the cross-reference file for every image in the database with the following format:

ImageID, VolumeLabel, ImageFilePath, DocumentBreak, FolderBreak, BoxBreak, PageCount

3. Data File

The data file (.DAT) contains all of the fielded information that will be loaded into the database.

- The first line of the .DAT file must be a header row identifying the field names
- The .DAT file must use the following *Concordance*® default delimiters:

Comma ¶ ASCII character (020)

Quote b ASCII character (254)

- c. If the .DAT file is produced in Unicode format it must contain the byte order marker
- d. Date fields should be provided in the format: mm/dd/yyyy
- Date and time fields must be two separate fields
- f. The time zone must be included in all time fields
- If the production includes imaged emails and attachments, the attachment fields must be included to preserve the parent/child relationship between an email and its attachments
- An OCRPATH field must be included to provide the file path and name of the extracted text file on the produced storage media. The text file must be named after the FIRSTBATES. Do not include the text in the .DAT file.
- í. For productions with native files, a LINK field must be included to provide the file path and name of the native file on the produced storage media. The native file must be named after the FIRSTBATES.
- BEGATTACH and ENDATTACH fields must be two separate fields
- k. A complete list of metadata fields is available in Addendum A to this document

Text

Text must be produced as separate document-level text files, not as fields within the .DAT file. The text files must be named per the FIRSTBATES/Image Key and the full path to the text file (OCRPATH) should be included in the .DAT file. Text files may be in either ANSI or Unicode format, however, ALL text files must be in the same format within the same production. Note that productions containing text with foreign characters must produce text files in Unicode format to preserve the foreign characters. Text files must be in a separate folder, and the number of text files per folder should not exceed 2,000 files. There should be no special characters (including commas) in the folder names. For redacted documents, provide the full text for the redacted version.

Linked Native Files

Copies of original email and native file documents/attachments must be included for all electronic productions.

- a. Native file documents must be named per the FIRSTBATES number
- The full path of the native file must be provided in the .DAT file for the LINK field
- The number of native files per folder should not exceed 2,000 files

II. Native File Production without Load Files

With prior approval, native files may be produced without load files. Native file productions should not be Bates numbered. Native files must be produced as they are maintained in the normal course of business and organized by custodian-named file folders. Native email files (.PST or .MBOX) must be separated by custodian.

III. Adobe PDF File Production

With prior approval, Adobe PDF files may be produced in native file format.

- 1. All PDFs must be unitized at the document level, i.e. each PDF must represent a discrete document.
- 2. PDF files should be produced in separate folders named by the custodian. The folders should not contain any special characters (including commas).
- 3. All PDF files must contain embedded text that includes all discernible words within the document, not selected text or image only. This requires all layers of the PDF to be flattened first.
- 4. If PDF files are Bates endorsed, the PDF files must be named by the Bates range.

IV. Audio Files

Audio files from telephone recording systems must be produced in a format that is playable using Microsoft Windows Media PlayerTM. Additionally, the call information (metadata) related to each audio recording MUST be provided. The metadata file must be produced in a delimited text format. Field names must be included in the first row of the text file. The metadata must include, at a minimum, the following fields:

1) Caller Name: Caller's name or account/identification number

2) Originating Number: Caller's phone number3) Called Party Name: Called party's name

4) Terminating Number: Called party's phone number

5) Date: Date of call6) Time: Time of call

7) Filename: Filename of audio file

V. Video Files

Video files must be produced in a format that is playable using Microsoft Windows Media PlayerTM.

VI. Electronic Trade and Bank Records

When producing electronic trade records, bank records, or financial statements, provide the files in one of the following formats:

- 1. MS Excel spreadsheet with header information detailing the field structure. If any special codes exist in the dataset, a separate document must be provided that details all such codes. If details of the field structure do not fit in the header, a separate document must be provided that includes such details.
- 2. Delimited text file with header information detailing the field structure. The preferred delimiter is a vertical bar "|". If any special codes exist in the dataset, a separate document must be provided that details all such codes. If details of the field structure do not fit in the header, a separate document must be provided that includes such details.

VII. Electronic Phone Records

When producing an MS Excel spreadsheet for electronic phone records, provide the files in the following format:

- 1. MS Excel spreadsheet with header information detailing the field structure. If any special codes exist in the dataset, a separate document must be provided that details all such codes. If details of the field structure do not fit in the header, a separate document must be provided that includes such details. Data must be formatted in its native format (i.e. dates in a date format, numbers in an appropriate numerical format, and numbers with leading zeroes as text).
 - a. The metadata that must be included is outlined in **Addendum B** of this document. Each field of data must be loaded into a separate column. For example, Date and Start_Time must be produced in separate columns and not combined into a single column containing both pieces of information. Any fields of data that are provided in addition to those listed in **Addendum B** must also be loaded into separate columns.

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Data Delivery Standards

VIII. Audit Workpapers

The SEC prefers for workpapers to be produced in two formats: (1) With Bates numbers in accordance with the SEC Data Delivery Standards; and (2) in native format via laptop computer, web-based viewing platform, or otherwise, allowing for viewing in the same format and organization as the firm's audit team. Prior to production of workpapers via laptop computer or web-based viewing platform, audit firms should contact the requesting SEC staff member for additional information and written agreements addressing use of software, access, and viewing protocols.

IX. Mobile Device Data

Before producing any mobile device data (including but not limited to text messages and application data) parties should reach out to the requesting SEC staff member in order to discuss the appropriate production format. Productions containing chat data from applications must be identified at the time of production and the following information must be provided to the requesting SEC staff member and the SEC Centralized Production Unit: chat application, chat data format, and how the length of a chat is determined (i.e. set duration of time, number of minutes without messages, etc.)

ADDENDUM A

The metadata of electronic document collections should be extracted and provided in a .DAT file using the field definition and formatting described below:

Field Name	Sample Data	Description
FIRSTBATES	EDC0000001	First Bates number of native file document/email
LASTBATES	EDC0000001	**The LASTBATES field should be populated for single page documents/emails.
ATTACHRANGE	EDC0000001 - EDC0000015	Bates number of the first page of the parent document to the Bates number of the last page of the last attachment "child" document
BEGATTACH	EDC0000001	First Bates number of attachment range
ENDATTACH	EDC0000015	Last Bates number of attachment range
PARENT BATES	EDC0000001	First Bates number of parent document/Email **This PARENT BATES field should be populated in each record representing an attachment "child" document
CHILD BATES	EDC0000002; EDC0000014	First Bates number of "child" attachment(s); can be more than one Bates number listed depending on the number of attachments **The CHILD_BATES field should be populated in each record representing a "parent" document
CUSTODIAN	Smith, John	Email: Mailbox where the email resided Native: Name of the individual or department from whose files the document originated
FROM	John Smith	Email: Sender Native: Author(s) of document **semi-colon should be used to separate multiple entries
ТО	Coffman, Janice; LeeW [mailto:LeeW@MSN.com]	Recipient(s) **semi-colon should be used to separate multiple entries
CC	Frank Thompson [mailto: frank Thompson@cdt.com]	Carbon copy recipient(s) **semi-colon should be used to separate multiple entries
BCC	John Cain	Blind carbon copy recipient(s) **semi-colon should be used to separate multiple entries
SUBJECT	Board Meeting Minutes	Email: Subject line of the email Native: Title of document (if available)
FILE_NAME	BoardMeetingMinutes.docx	Native: Name of the original native file, including extension
DATE_SENT	10/12/2010	Email: Date the email was sent Native: (empty)
TIME_SENT/TIME _ZONE	07:05 PM GMT	Email: Time the email was sent/ Time zone in which the emails were standardized during conversion. Native: (empty) **This data must be a separate field and cannot be combined with the DATE SENT field

TIME_ZONE	GMT	The time zone in which the emails were standardized
		during conversion.
		Email: Time zone
		Native: (empty)
LINK	D:\001\ EDC0000001.msg	Hyperlink to the email or native file document
	5	**The linked file must be named per the
		FIRSTBATES number
MIME TYPE	application/msword	The content type of an email or native file document
	approacion in word	as identified/extracted from the header
FILE EXTEN	MSG	The file type extension representing the email or
THEE EXTER	Mod	native file document; will vary depending on the
		format
AUTHOR	John Smith	Email: (empty)
AUTHOR	John Shitti	Native: Author of the document
LAST ALITHOD	Jane Doe	
LAST_AUTHOR	Jane Doe	Email: (empty)
DATE CREATES	10/10/2010	Native: Last Author of the document
DATE_CREATED	10/10/2010	Email: (empty)
TILLE CONTACTO	10.05.434.0347	Native: Date the document was created
TIME_CREATED/T	10:25 AM GMT	Email: (empty)
IME ZONE		Native: Time the document was created including time
		zone
		**This data must be a separate field and cannot be
		combined with the DATE_CREATED field
DATE_MOD	10/12/2010	Email: (empty)
_		Native: Date the document was last modified
TIME_MOD/TIME	07:00 PM GMT	Email: (empty)
ZONE		Native: Time the document was last modified including
		the time zone
		**This data must be a separate field and cannot be
		combined with the DATE_MOD field
DATE ACCEDED	10/12/2010	_
DATE_ACCESSD	10/12/2010	Email: (empty)
TIME LOSSESSES	07.00 PM (()) (T	Native: Date the document was last accessed
TIME_ACCESSD/T	07:00 PM GMT	Email: (empty)
IME ZONE		Native: Time the document was last accessed including
		the time zone
		**This data must be a separate field and cannot be
		combined with the DATE_ACCESSD field
PRINTED_DATE	10/12/2010	Email: (empty)
TRIITIDE_DITTE	10/12/2010	Native: Date the document was last printed
FILE SIZE	5,952	Size of native file document/email in KB
PGCOUNT	1	Number of pages in native file document/email
PATH	J:\Shared\SmithJ\October	Email: (empty)
IVIU		Native: Path where native file document was stored
	Agenda.doc	
DITCH COATH	n (r.)()n (.)	including original file name.
INTFILEPATH	Personal Folders\Deleted	Email: original location of email including origina
	Items\Board Meeting	file name.
	Minutes.msg	Native: (empty)
INTMSGID	<000805c2c71b\$75977050\$cb	Email: Unique Message ID
	8306d1@MSN>	Native: (empty)

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SHA256	Return-Path: <example_from@dc.edu> X-SpamCatcher-Score:1[X] Received:from[136.167.40.119] (HELO dc.edu) by fe3.dc.edu (CommuniGate Pro SMTP4.1.8) with ESMTP-TLS id 61258719 for example_to@mail.dc.edu; Mon, 23 Aug 2004 11:40:10 - 0400 Message-ID: <4129F3CA.2020509@dc.edu> Date: Mon, 23 Aug 2005 11:40:36 -400 From: Taylor Evans <example_from@dc.edu> User-Agent:Mozilla/5.0 (Windows;U; Windows NT 5.1; en-US;rv:1.0.1) Gecko/20020823 Netscape/7.0 X-Accept-Language:en-us,en MIME-Version:1.0 To: Jon Smith <example_to@mail.dc.edu> Subject:Business Development Meeting Content-Type: text/plain;charset-us-ascii; format=flowed Content-Transfer-Encoding:7bit</example_to@mail.dc.edu></example_from@dc.edu></example_from@dc.edu>	Email: The email header information Native: (empty) SHA-256 hash value of the document.
	AD6128C5CA40164AF71A1E FC800E12D2F195CE07BB5F8 C813B0888A2DDE6A06F	
OCRPATH	TEXT/001/EDC0000001.txt	Path to extracted text of the native file

Sample Image Cross-Reference File:

IMG0000001,,E:\001\IMG0000001.TIF,Y,,,
IMG0000002,,E:\001\IMG0000002.TIF,,,,
IMG0000003,,E:\001\IMG0000003.TIF,,,,
IMG0000004,,E:\001\IMG0000005.TIF,Y,,,
IMG0000005,,E:\001\IMG0000005.TIF,Y,,,
IMG0000006,,E:\001\IMG0000006.TIF,,,,,

ADDENDUM B

For Electronic Phone Records, include the following fields in separate columns: For Calls:

- 1) Account Number
- 2) Connection Date Date the call was received or made
- 3) Connection Time Time call was received or made
- 4) Seizure Time Time it took for the call to be placed in seconds
- 5) Originating Number Phone that placed the call
- 6) Terminating Number Phone that received the call
- 7) Elapsed Time The length of time the call lasted, preferably in seconds
- 8) End Time The time the call ended
- 9) Number Dialed Actual number dialed
- 10) IMEI Originating Unique id to phone used to make call
- 11) IMEI Terminating- Unique id to phone used to receive call
- 12) IMSI Originating Unique id to phone used to make call
- 13) IMSI Terminating- Unique id to phone used to receive call
- 14) Call Codes Identify call direction or other routing information
- 15) Time Zone Time Zone in which the call was received or placed, if applicable

For Text messages:

- 1) Account Number
- Connection Date Date the text was received or made
- 3) Connection Time Time text was received or made
- 4) Originating Number Who placed the text
- 5) Terminating Number Who received the text
- 6) IMEI Originating Unique id to phone used to make text
- 7) IMEI Terminating Unique id to phone used to receive text
- 8) IMSI Originating Unique id to phone used to make text
- 9) IMSI Terminating- Unique id to phone used to receive text
- 10) Text Code Identify text direction, or other text routing information
- 11) Text Type Code Type of text message (sent SMS, MMS, or other)
- 12) Time Zone Time Zone in which the call was received or placed, if applicable

For Mobile Data Usage:

- 1) Account Number
- 2) Connection Date Date the data was received or made
- 3) Connection Time Time data was received or made
- 4) Originating number Number that used data
- 5) IMEI Originating Unique id of phone that used data
- 6) IMSI Originating Unique id of phone that used data
- 7) Data or Data codes Identify data direction, or other data routing information
- 8) Time Zone Time Zone in which the call was received or placed, if applicable

SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549

Supplemental Information for Persons Requested to Supply Information Voluntarily or Directed to Supply Information Pursuant to a Commission Subpoena

A. False Statements and Documents

Section 1001 of Title 18 of the United States Code provides that fines and terms of imprisonment may be imposed upon:

[W]hoever, in any matter within the jurisdiction of the executive, legislative, or judicial branch of the Government of the United States, knowingly and willfully--

- (1) falsifies, conceals, or covers up by any trick, scheme, or device a material fact;
- (2) makes any materially false, fictitious, or fraudulent statement or representation; or
- (3) makes or uses any false writing or document knowing the same to contain any materially false, fictitious, or fraudulent statement or entry.

Section 1519 of Title 18 of the United States Code provides that fines and terms of imprisonment may be imposed upon:

Whoever knowingly alters, destroys, mutilates, conceals, covers up, falsifies, or makes a false entry in any record, document, or tangible object with the intent to impede, obstruct, or influence the investigation or proper administration of any matter within the jurisdiction of any department or agency of the United States . . ., or in relation to or contemplation of any such matter.

B. Testimony

If your testimony is taken, you should be aware of the following:

- 1. Record. Your testimony will be transcribed by a reporter. If you desire to go off the record, please indicate this to the Commission employee taking your testimony, who will determine whether to grant your request. The reporter will not go off the record at your, or your counsel's, direction.
- 2. Counsel. You have the right to be accompanied, represented and advised by counsel of your choice. Your counsel may advise you before, during and after your testimony; question you briefly at the conclusion of your testimony to clarify any of the answers you give during testimony; and make summary notes during your testimony solely for your use. If you are accompanied by counsel, you may consult privately.

If you are not accompanied by counsel, please advise the Commission employee taking your testimony if, during the testimony, you desire to be accompanied, represented and advised by counsel. Your testimony will be adjourned once to afford you the opportunity to arrange to be so accompanied, represented or advised.

You may be represented by counsel who also represents other persons involved in the Commission's investigation. This multiple representation, however, presents a potential conflict of interest if one client's interests are or may be adverse to another's. If you are represented by counsel who also represents other persons involved in the investigation, the Commission will assume that you and counsel have discussed and resolved all issues concerning possible conflicts of interest. The choice of counsel, and the responsibility for that choice, is yours.

3. Transcript Availability. Rule 6 of the Commission's Rules Relating to Investigations, 17 CFR 203.6, states:

A person who has submitted documentary evidence or testimony in a formal investigative proceeding shall be entitled, upon written request, to procure a copy of his documentary evidence or a transcript of his testimony on payment of the appropriate fees: *Provided, however*, That in a nonpublic formal investigative proceeding the Commission may for good cause deny such request. In any event, any witness, upon proper identification, shall have the right to inspect the official transcript of the witness' own testimony.

If you wish to purchase a copy of the transcript of your testimony, the reporter will provide you with a copy of the appropriate form. Persons requested to supply information voluntarily will be allowed the rights provided by this rule.

4. Perjury. Section 1621 of Title 18 of the United States Code provides that fines and terms of imprisonment may be imposed upon:

Whoever--

- (1) having taken an oath before a competent tribunal, officer, or person, in any case in which a law of the United States authorizes an oath to be administered, that he will testify, declare, depose, or certify truly, or that any written testimony, declaration, deposition, or certificate by him subscribed, is true, willfully and contrary to such oath states or subscribes any material matter which he does not believe to be true; or
- (2) in any declaration, certificate, verification, or statement under penalty of periury as permitted under section 1746 of title 28. United States Code, willfully subscribes as true any material matter which he does not believe to be true.
- 5. Fifth Amendment and Voluntary Testimony. Information you give may be used against you in any federal, state, local or foreign administrative, civil or criminal proceeding brought by the Commission or any other agency.

You may refuse, in accordance with the rights guaranteed to you by the Fifth Amendment to the Constitution of the United States, to give any information that may tend to incriminate you.

If your testimony is not pursuant to subpoena, your appearance to testify is voluntary, you need not answer any question, and you may leave whenever you wish. Your cooperation is, however, appreciated.

Formal Order Availability. If the Commission has issued a formal order of investigation, it will be shown to you during your testimony, at your request. If you desire a copy of the formal order, please make your request in writing.

C. Submissions and Settlements

Rule 5(c) of the Commission's Rules on Informal and Other Procedures, 17 CFR 202.5(c), states:

Persons who become involved in . . . investigations may, on their own initiative, submit a written statement to the Commission setting forth their interests and position in regard to the subject matter of the investigation. Upon request, the staff, in its discretion, may advise such persons of the general nature of the investigation, including the indicated violations as they pertain to them, and the amount of time that may be available for preparing and submitting a statement prior to the presentation of a staff recommendation to the Commission for the commencement of an administrative or injunction proceeding. Submissions by interested persons should be forwarded to the appropriate Division Director or Regional Director with a copy to the staff members conducting the investigation and should be clearly referenced to the specific investigation to which they relate. In the event a recommendation for the commencement of an enforcement proceeding is presented by the staff, any submissions by interested persons will be forwarded to the Commission in conjunction with the staff memorandum.

The staff of the Commission routinely seeks to introduce submissions made pursuant to Rule 5(c) as evidence in Commission enforcement proceedings, when the staff deems appropriate.

Rule 5(f) of the Commission's Rules on Informal and Other Procedures, 17 CFR 202.5(f), states:

In the course of the Commission's investigations, civil lawsuits, and administrative proceedings, the staff, with appropriate authorization, may discuss with persons involved the disposition of such matters by consent, by settlement, or in some other manner. It is the policy of the Commission, however, that the disposition of any such matter may not, expressly or impliedly, extend to any criminal charges that have been, or may be, brought against any such person or any recommendation with respect thereto. Accordingly, any person involved in an enforcement matter before the Commission who consents, or agrees to consent, to any judgment or order does so solely for the purpose of resolving the claims against him in that investigative, civil, or administrative matter and not for the purpose of resolving any criminal charges that have been, or might be, brought against him. This policy reflects the fact that neither the Commission nor its staff has the authority or responsibility for instituting, conducting, settling, or otherwise disposing of criminal proceedings. That authority and responsibility are vested in the Attorney General and representatives of the Department of Justice.

D. Freedom of Information Act

The Freedom of Information Act, 5 U.S.C. 552 (the "FOIA"), generally provides for disclosure of information to the public. Rule 83 of the Commission's Rules on Information and Requests, 17 CFR 200.83, provides a procedure by which a person can make a written request that information submitted to the Commission not be disclosed under the FOIA. That rule states that no determination as to the validity of such a request will be made until a request for disclosure of the information under the FOIA is received. Accordingly, no response to a request that information not be disclosed under the FOIA is necessary or will be given until a request for disclosure under the FOIA is received. If you desire an acknowledgment of receipt of your written request that information not be disclosed under the FOIA, please provide a duplicate request, together with a stamped, self-addressed envelope.

E. Authority for Solicitation of Information

Persons Directed to Supply Information Pursuant to Subpoena. The authority for requiring production of information is set forth in the subpoena. Disclosure of the information to the Commission is mandatory, subject to the valid assertion of any legal right or privilege you might have.

Persons Requested to Supply Information Voluntarily. One or more of the following provisions authorizes the Commission to solicit the information requested: Sections 19 and/or 20 of the Securities Act of 1933; Section 21 of the Securities Exchange Act of 1934; Section 321 of the Trust Indenture Act of 1939; Section 42 of the Investment Company Act of 1940; Section 209 of the Investment Advisers Act of 1940; and 17 CFR 202.5. Disclosure of the requested information to the Commission is voluntary on your part.

F. Effect of Not Supplying Information

Persons Directed to Supply Information Pursuant to Subpoena. If you fail to comply with the subpoena, the Commission may seek a court order requiring you to do so. If such an order is obtained and you thereafter fail to supply the information, you may be subject to civil and/or criminal sanctions for contempt of court. In addition, Section 21(c) of the Securities Exchange Act of 1934, Section 42(c) of the Investment Company Act of 1940, and Section 209(c) of the Investment Advisers Act of 1940 provide that fines and terms of imprisonment may be imposed upon any person who shall, without just cause, fail or refuse to attend and testify or to answer any lawful inquiry, or to produce books, papers, correspondence, memoranda, and other records in compliance with the subpoena.

Persons Requested to Supply Information Voluntarily. There are no direct sanctions and thus no direct effects for failing to provide all or any part of the requested information.

G. Principal Uses of Information

The Commission's principal purpose in soliciting the information is to gather facts in order to determine whether any person has violated, is violating, or is about to violate any provision of the federal securities laws or rules for which the Commission has enforcement authority, such as rules of securities exchanges and the rules of the Municipal Securities Rulemaking Board. Facts developed may, however, constitute violations of other laws or rules. Information provided may be used in Commission and other agency enforcement proceedings. Unless the Commission or its staff explicitly agrees to the contrary in writing, you should not assume that the Commission or its staff acquiesces in, accedes to, or concurs or agrees with, any position, condition, request, reservation of right, understanding, or any other statement that purports, or may be deemed, to be or to reflect a limitation upon the Commission's receipt, use, disposition, transfer, or retention, in accordance with applicable law, of information provided.

H. Routine Uses of Information

The Commission often makes its files available to other governmental agencies, particularly United States Attorneys and state prosecutors. There is a likelihood that information supplied by you will be made available to such agencies where appropriate. Whether or not the Commission makes its files available to other governmental agencies is, in general, a confidential matter between the Commission and such other governmental agencies.

Set forth below is a list of the routine uses which may be made of the information furnished.

- 1. To appropriate agencies, entities, and persons when (1) the SEC suspects or has confirmed that there has been a breach of the system of records, (2) the SEC has determined that as a result of the suspected or confirmed breach there is a risk of harm to individuals, the SEC (including its information systems, programs, and operations), the Federal Government, or national security; and (3) the disclosure made to such agencies, entities, and persons is reasonably necessary to assist in connection with the SEC's efforts to respond to the suspected or confirmed breach or to prevent, minimize, or remedy such harm.
- 2. To other Federal, state, local, or foreign law enforcement agencies; securities self-regulatory organizations; and foreign financial regulatory authorities to assist in or coordinate regulatory or law enforcement activities with the SEC.
- 3. To national securities exchanges and national securities associations that are registered with the SEC, the Municipal Securities Rulemaking Board; the Securities Investor Protection Corporation; the Public Company Accounting Oversight Board; the Federal banking authorities, including, but not limited to, the Board of Governors of the Federal Reserve System, the Comptroller of the Currency, and the Federal Deposit Insurance Corporation; state securities regulatory agencies or organizations; or regulatory authorities of a foreign government in connection with their regulatory or enforcement responsibilities.
- 4. By SEC personnel for purposes of investigating possible violations of, or to conduct investigations authorized by, the Federal securities laws.
- 5. In any proceeding where the Federal securities laws are in issue or in which the Commission, or past or present members of its staff, is a party or otherwise involved in an official capacity.

- 6. In connection with proceedings by the Commission pursuant to Rule 102(e) of its Rules of Practice, 17 CFR 201.102(e).
- 7. To a bar association, state accountancy board, or other Federal, state, local, or foreign licensing or oversight authority; or professional association or self-regulatory authority to the extent that it performs similar functions (including the Public Company Accounting Oversight Board) for investigations or possible disciplinary action.
- 8. To a Federal, state, local, tribal, foreign, or international agency, if necessary to obtain information relevant to the SEC's decision concerning the hiring or retention of an employee; the issuance of a security clearance; the letting of a contract; or the issuance of a license, grant, or other benefit.
- 9. To a Federal, state, local, tribal, foreign, or international agency in response to its request for information concerning the hiring or retention of an employee; the issuance of a security clearance; the reporting of an investigation of an employee; the letting of a contract; or the issuance of a license, grant, or other benefit by the requesting agency, to the extent that the information is relevant and necessary to the requesting agency's decision on the matter.
- 10. To produce summary descriptive statistics and analytical studies, as a data source for management information, in support of the function for which the records are collected and maintained or for related personnel management functions or manpower studies; may also be used to respond to general requests for statistical information (without personal identification of individuals) under the Freedom of Information Act.
- 11. To any trustee, receiver, master, special counsel, or other individual or entity that is appointed by a court of competent jurisdiction, or as a result of an agreement between the parties in connection with litigation or administrative proceedings involving allegations of violations of the Federal securities laws (as defined in section 3(a)(47) of the Securities Exchange Act of 1934, 15 U.S.C. 78c(a)(47)) or pursuant to the Commission's Rules of Practice, 17 CFR 201.100 through 900 or the Commission's Rules of Fair Fund and Disgorgement Plans, 17 CFR 201.1100 through 1106, or otherwise, where such trustee, receiver, master, special counsel, or other individual or entity is specifically designated to perform particular functions with respect to, or as a result of, the pending action or proceeding or in connection with the administration and enforcement by the Commission of the Federal securities laws or the Commission's Rules of Practice or the Rules of Fair Fund and Disgorgement Plans.
- 12. To any persons during the course of any inquiry, examination, or investigation conducted by the SEC's staff, or in connection with civil litigation, if the staff has reason to believe that the person to whom the record is disclosed may have further information about the matters related therein, and those matters appeared to be relevant at the time to the subject matter of the inquiry.
- 13. To interns, grantees, experts, contractors, and others who have been engaged by the Commission to assist in the performance of a service related to this system of records and who need access to the records for the purpose of assisting the Commission in the efficient administration of its programs, including by performing clerical, stenographic, or data analysis functions, or by reproduction of records by electronic or other means. Recipients of these records shall be required to comply with the requirements of the Privacy Act of 1974, as amended, 5 U.S.C. 552a.
- 14. In reports published by the Commission pursuant to authority granted in the Federal securities laws (as such term is defined in section 3(a)(47) of the Securities Exchange Act of 1934, 15 U.S.C. 78c(a)(47)), which authority shall include, but not be limited to, section 21(a) of the Securities Exchange Act of 1934, 15 U.S.C. 78u(a)).
- 15. To members of advisory committees that are created by the Commission or by Congress to render advice and recommendations to the Commission or to Congress, to be used solely in connection with their official designated functions.
- 16. To any person who is or has agreed to be subject to the Commission's Rules of Conduct, 17 CFR 200.735-1 through 200.735-18, and who assists in the investigation by the Commission of possible violations of the Federal securities laws (as such term is defined in section 3(a)(47) of the Securities Exchange Act of 1934, 15 U.S.C. 78c(a)(47)), in the preparation or conduct of enforcement actions brought by the Commission for such violations, or otherwise in connection with the Commission's enforcement or regulatory functions under the Federal securities laws.
- 17. To a Congressional office from the record of an individual in response to an inquiry from the Congressional office made at the request of that individual.
- 18. To members of Congress, the press, and the public in response to inquiries relating to particular Registrants and their activities, and other matters under the Commission's jurisdiction.
- 19. To prepare and publish information relating to violations of the Federal securities laws as provided in 15 U.S.C. 78c(a)(47)), as amended.
- 20. To respond to subpoenas in any litigation or other proceeding.

- 21. To a trustee in bankruptcy.
- 22. To any governmental agency, governmental or private collection agent, consumer reporting agency or commercial reporting agency, governmental or private employer of a debtor, or any other person, for collection, including collection by administrative offset, Federal salary offset, tax refund offset, or administrative wage garnishment, of amounts owed as a result of Commission civil or administrative proceedings.
- 23. To another Federal agency or Federal entity, when the SEC determines that information from this system of records is reasonably necessary to assist the recipient agency or entity in (1) responding to a suspected or confirmed breach or (2) preventing, minimizing, or remedying the risk of harm to individuals, the recipient agency or entity (including its information systems, programs, and operations), the Federal Government, or national security, resulting from a suspected or confirmed breach.

* * * * *

Small Business Owners: The SEC always welcomes comments on how it can better assist small businesses. If you would like more information, or have questions or comments about federal securities regulations as they affect small businesses, please contact the Office of Small Business Policy, in the SEC's Division of Corporation Finance, at 202-551-3460. If you would prefer to comment to someone outside of the SEC, you can contact the Small Business Regulatory Enforcement Ombudsman at http://www.sba.gov/ombudsman or toll free at 888-REG-FAIR. The Ombudsman's office receives comments from small businesses and annually evaluates federal agency enforcement activities for their responsiveness to the special needs of small business.



UNITED STATES SECURITIES AND EXCHANGE COMMISSION

100 PEARL STREET, SUITE 20-100 NEW YORK, NY 10004-2616

DIVISION OF ENFORCEMENT

March 13, 2024

VIA EMAIL
Universal Navigation, Inc.
c/o Andrew J. Ceresney, Esq.
Debevoise & Plimpton LLP
66 Hudson Boulevard
New York, NY 10001

Re: C-08950

Dear Mr. Ceresney:

The enclosed subpoena has been issued pursuant to a formal order entered by the United States Securities and Exchange Commission. Pursuant to Rule 8 of the United States Securities and Exchange Commission's Rules Relating to Investigations, 17 C.F.R. § 203.8, I have enclosed a subpoena for documents issued to Universal Navigation, Inc. ("Uniswap Labs") in connection with the above-referenced investigation.

This is a federal civil law enforcement investigation and you must produce all documents described in the attached subpoena. The enclosed subpoena requires Uniswap Labs to produce documents to the SEC by March 27, 2024 to:

ENF-CPU U.S. Securities and Exchange Commission 14420 Albemarle Point Place, Suite 102 Chantilly, VA 20151-1750

For smaller electronic productions under 10MB in size, the materials may be emailed to the following email address: <u>ENF-CPU@sec.gov</u>. If you would like to use the Commission's secure electronic transfer site, Accellion/Kiteworks, please contact me and I will send you a link.

	Please a	lso prov	ride a d	uplicate	copy of a	ıny docui	nent pro	duction co	over le <u>tters</u>	to me at
(b)(6); (b)(7)			_ 1		(b)(6); (b)(i			b)(7)(C) ()sec	<u>.gov</u> , (b)(6);	:1
(b)(6);	at (b)(6)	(b)(7)(C)	@sec.g	ov, and	o)(6); (b)(7)(C) at (b)(6); \(7)(0)	sec.gov.	Additiona	Ily, please
include	the SEC	[*] matter	numbe	er and the	e name of	f the reau	esting at	tomev wh	ien respond	ling.

Please carefully read the subpoena attachment, which contains, among other things, important instructions related to the manner of producing documents. In particular, if Uniswap Labs prefers to send us copies of original documents, the staff requests that you scan and produce hard copy documents, as well as electronic documents, in an electronic format consistent with the SEC Data Delivery Standards attached hereto. All electronic documents responsive to the subpoena, including all metadata, should also be produced in their native software format. If you have any questions concerning the production of documents in an electronic format, please contact me as soon as possible and in any event before producing documents. For security reasons, we strongly encourage the encryption of sensitive documents before production.

When producing the records, please consecutively number and mark each document produced with a symbol that identifies it as being produced by Uniswap Labs and provide an index which briefly identifies the documents produced.

In your cover letter(s) accompanying the production of responsive documents, please enclose a list briefly describing each item you send. The list should identify the paragraph(s) in the subpoena attachment to which each item responds. Please also state in the cover letter(s) whether you believe Uniswap Labs has met the obligations of the subpoena by searching carefully and thoroughly for everything called for by the subpoena and sending it all to us.

A copy of the subpoena should be included with the documents that are produced. Correspondence should reference case number and requesting SEC staff member.

Passwords for documents, files, compressed archives, and encrypted media should be provided separately either via email addressed to ENF-CPU@sec.gov, or in a separate cover letter mailed separately from the data. Password correspondence should reference case number and requesting SEC staff member.

In addition, for any documents that qualify as records of regularly conducted activities under Federal Rule of Evidence 902(11), please have the appropriate representative(s) of Uniswap Labs complete a business records certification (a sample of which is enclosed) and return it with the document production. Execution of this certification may allow the Commission to introduce the documents provided by Uniswap Labs in any subsequent judicial proceeding, without requiring the testimony of a records custodian.

Enclosed is a copy of the Commission's Form 1662, entitled "Supplemental Information for Persons Requested to Supply Information Voluntarily or Directed to Supply Information Pursuant to a Commission Subpoena." This form explains how we may use the information which Uniswap Labs provides to the Commission and has other important information. Please provide a copy of this form to Uniswap Labs.

This investigation is a non-public, fact-finding inquiry. We are trying to determine whether there have been any violations of the federal securities laws. The investigation does not mean that we have concluded that anyone has violated the law. Also, the investigation does not mean that we have a negative opinion of any person, entity, or security.

If you have any questions or would like to discuss this matter, you may contact me at (b)(6); (b)(7)(C) (iscc.gov.

Sincerely,	
(b)(6); (b)(7)(C)	
Division of Enforcement	
(b)(6); (b)(7)(C) a sec.gov	

Enclosures: Subpoena and Attachment

Business Records Certification SEC Data Delivery Standards

SEC Form 1662



SUBPOENA

UNITED STATES OF AMERICA SECURITIES AND EXCHANGE COMMISSION

C-08950

To: Universal Navigation, Inc. c/o Andrew J. Ceresney, Esq. Debevoise & Plimpton LLP 66 Hudson Boulevard New York, NY 10001

YOU MUST PRODUCE everything specified in the Attachment to this subpoena to officers of the Securities and Exchange Commission, at the place, date and time specified below:

ENF-CPU, U.S. Securities and Exchange Commission, 14420 Albemarle Point Place, Suite 102 Chantilly, VA 20151-1750, no later than March 27, 2024.

YOU MUST TESTIFY before officers of the Securities and Exchange Commission, at the place, date and time specified below:

FEDERAL LAW REQUIRES YOU TO COMPLY WITH THIS SUBPOENA.

If you do not comply with this subpoena, the SEC may bring an action in Federal Court to enforce this subpoena. Failure to comply with a court order enforcing this subpoena may result in the court imposing a fine, imprisonment, or both.

By: (b)(6); (b)(7)(C)

Date: March 13, 2024

U.S. Securities and Exchange Commission New York Regional Office 100 Pearl Street, Suite 20-100 New York, NY 10004-2616

I am an officer of the U.S. Securities and Exchange Commission authorized to issue subpoenas in this matter. The Securities and Exchange Commission has issued a formal order authorizing this investigation under Section 20(a) of the Securities Act of 1933.

NOTICE TO WITNESS: If you claim a witness fee or mileage, submit this subpoena with the claim voucher.

SUBPOENA ATTACHMENT FOR UNIVERSAL NAVIGATION, INC. C-08950

March 13, 2024

Definitions

As used in this subpoena, the words and phrases listed below shall have the following meanings:

- 1. "Relevant Period" means July 1, 2018 to the present.
- 2. "Uniswap" means the entity doing business under the name Universal Navigation, Inc. including parents, subsidiaries, affiliates, predecessors, successors, officers, directors, employees, agents, general partners, limited partners, partnerships and aliases, code names, or trade or business names used by any of the foregoing.
- 3. "Vulcanize" means the entity doing business under the name Vulcanize, Inc. including parents, subsidiaries, affiliates, predecessors, successors, officers, directors, employees, agents, general partners, limited partners, partnerships and aliases, code names, or trade or business names used by any of the foregoing.
- 4. The "Ethereum Foundation" means the entity or business doing business under the name Ethereum Foundation, including, but not limited to, ethereum.org, the Ethereum Support Program, and parents, subsidiaries, affiliates, predecessors, successors, officers, directors, employees, agents, general partners, limited partners, partnerships and aliases, owners, code names, or trade or business names used by any of the foregoing.
- 5. "The Merge" or "Ethereum 2.0" means the transition by the Ethereum blockchain of its consensus mechanism from proof-of-work to proof-of-stake.
- "Beacon Chain" means the original proof-of-stake blockchain that was launched in 2020 6. that ran alongside the original proof-of-work Ethereum blockchain.
- 7. "Document" shall include, but is not limited to, any written, printed, or typed matter including, but not limited to all drafts and copies bearing notations or marks not found in the original, letters and correspondence, interoffice communications, slips, tickets, records, worksheets, financial records, accounting documents, bookkeeping documents, memoranda, reports, manuals, telephone logs, facsimiles, messages of any type, telephone messages, text messages, voice mails, tape recordings, notices, instructions, minutes, summaries, notes of meetings, file folder markings, and any other organizational indicia, purchase orders, information recorded by photographic process, including microfilm and microfiche, computer printouts, spreadsheets, and other electronically stored information, including writings, drawings, graphs, charts, photographs, sound recordings, images, and other data or data compilations that are stored in any medium from which information can be retrieved, obtained, manipulated, or translated.

- 8. "Communication" means any correspondence, contact, discussion, e-mail, instant message, or any other kind of oral or written exchange or transmission of information (in the form of facts, ideas, inquiries, or otherwise), including but not limited to those made on Social Media Services, and any response thereto between two or more Persons or entities, including, without limitation, all telephone conversations, face-to-face meetings or conversations, internal or external discussions, or exchanges of a Document or Documents.
- 9. "Concerning" means directly or indirectly, in whole or in part, describing, constituting, evidencing, recording, evaluating, substantiating, concerning, referring to, alluding to, in connection with, commenting on, relating to, regarding, discussing, showing, analyzing or reflecting.
- 10. "Agreement" means any actual or contemplated (i) written or oral Agreement; (ii) term or provision of such Agreement; or (iii) amendment of any nature or termination of such Agreement. A request for any Agreement among or between specified parties includes a request for all Documents Concerning (i) any actual or contemplated Agreement among or between such parties, whether or not such Agreement included any other Person; (ii) the drafting or negotiation of any such Agreement; (iii) any actual or contemplated demand, request or application for any such Agreement, and any response thereto; and (iv) any actual or contemplated objection or refusal to enter into any such Agreement, and any response thereto.
- 11. "Bank or Financial Account" means the domestic or foreign bank, brokerage, or financial accounts held, controlled, or used by you or by other people on your behalf. This includes, but is not limited to, accounts that contain currency, securities, or crypto assets.
- 12. "Person" means a natural person, firm, association, organization, partnership, business, trust, corporation, bank or any other private or public entity.
- 13. The term "you" and "your" means the Person to whom or entity to which this subpoena was issued.
- 14. To the extent necessary to bring within the scope of this this subpoena any information or Documents that might otherwise be construed to be outside its scope:
 - a. the word "or" means "and/or";
 - b. the word "and" means "and/or";
 - c. the functional words "each," "every" "any" and "all" shall each be deemed to include each of the other functional words;
 - d. the masculine gender includes the female gender and the female gender includes the masculine gender; and
 - e. the singular includes the plural and the plural includes the singular.

Instructions

- 1. Unless otherwise specified, this subpoena calls for production of the original Documents and all copies and drafts of same. Documents responsive to this subpoena may be in electronic or paper form. Electronic Documents such as email should be produced in accordance with the attached Document entitled SEC Data Delivery Standards. All responsive electronic Documents, including all metadata, should also be produced in their native software format.
- 2. For Documents in paper format, you may send the originals, or, if you prefer, you may send copies of the originals. The Commission cannot reimburse you for the copying costs. If you are sending copies, the staff requests that you scan (rather than photocopy) hard copy Documents and produce them in an electronic format consistent with the SEC Data Delivery Standards. Alternatively, you may send us photocopies of the Documents in paper format. If you choose to send copies, you <u>must</u> secure and retain the originals and store them in a safe place. The staff may later request or require that you produce the originals.
- 3. Whether you scan or photocopy Documents, the copies must be identical to the originals, including even faint marks or print. Also, please note that if copies of a Document differ in any way, they are considered separate Documents and you must send each one. For example, if you have two copies of the same letter, but only one of them has handwritten notes on it, you must send both the clean copy and the one with notes.
- 4. In producing a photocopy of an original Document that contains post-it(s), notation flag(s), or other removable markings or attachments which may conceal all or a portion of the markings contained in the original Document, photocopies of the original Document both with and without the relevant post-it(s), notation flag(s), or removable markings or attachments should be produced.
- 5. Documents should be produced as they are kept in the ordinary course of business or be organized and labeled to correspond with the categories in this request. In that regard, Documents should be produced in a unitized manner, i.e., delineated with staples or paper clips to identify the Document boundaries.
- 6. Documents should be labeled with sequential numbering (bates-stamped).
- 7. The scope of any given request should not be limited or narrowed on the basis that it calls for Documents that are responsive to another request.
- 8. This subpoena covers all Documents in or subject to your possession, custody or control, including all Documents that are not in your immediate possession but that you have the effective ability to obtain, that are responsive, in whole or in part, to any of the individual requests set forth below. If, for any reason including a claim of attorney-client privilege you do not produce something called for by the request, you should submit a list of what you are not producing. The list should describe each item separately, noting:

- a. its author(s);
- b. its date;
- c. its subject matter;
- d. the name of the Person who has the item now, or the last Person known to have it;
- e. the names of everyone who ever had the item or a copy of it, and the names of everyone who was told the item's contents;
- f. the basis upon which you are not producing the responsive Document;
- g. the specific request in the subpoena to which the Document relates;
- h. the attorney(s) and the client(s) involved; and
- i. in the case of the work product doctrine, the litigation for which the Document was prepared in anticipation.
- 9. If Documents responsive to this subpoena no longer exist because they have been lost, discarded, or otherwise destroyed, you should identify such Documents and give the date on which they were lost, discarded, or destroyed.

Documents to be Immediately Preserved and Produced

- 1. All Agreements between Uniswap and Vulcanize;
- 2. All Agreements between Uniswap and the Ethereum Foundation;
- 3. All Documents and Communications Concerning any grant or other source of funding for work on or related to the Ethereum blockchain funded, in whole or in part, by Uniswap;
- 4. All Documents and Communications concerning any work conducted pursuant to any grant or other source of funding identified in Request 3.
- 5. Documents sufficient to identify Uniswap's crypto asset wallet addresses or Bank or Financial Accounts, located within or outside the U.S., that distributed any grant or other source of funding for work on or related to the Ethereum blockchain, as well as (a) the recipient and (b) the amount of crypto assets or fiat distributed;
- 6. All Documents and Communications Concerning any grant or other source of funding received from the Ethereum Foundation;
- 7. All Documents and Communications Concerning any work conducted by Uniswap pursuant to any grant or other source of funding received from the Ethereum Foundation;
- 8. Documents sufficient to identify Uniswap's crypto asset wallet addresses or Bank or Financial Accounts, located within or outside the U.S., that received any grant or other source of funding from the Ethereum Foundation, as well as the amount of crypto assets or fiat received;

- 9. Documents sufficient to identify all meetings with the Ethereum Foundation, including any Documents related to the meetings identified;
- 10. All Communications with the Ethereum Foundation, including, but not limited to, Communications with board members, consultants, officers, directors, employees, developers, coders, and others performing work on behalf of these entities, related to The Merge or the Beacon Chain.

DECLARATION OF [Insert Name] CERTIFYING RECORDS OF REGULARLY CONDUCTED BUSINESS ACTIVITY

I, the undersigned, [insert name], pursuant to 28 U.S.C. § 1746, declare that:

- 1. I am employed by Universal Navigation, Inc. as [insert position] and by reason of my position am authorized and qualified to make this declaration. [if possible supply additional information as to how person is qualified to make declaration, e.g., I am custodian of records, I am familiar with the company's recordkeeping practices or systems, etc.]
- 2. I further certify that the documents [attached hereto or submitted herewith] and stamped [insert bates range] are true copies of records that were:
 - (a) made at or near the time of the occurrence of the matters set forth therein, by, or from information transmitted by, a person with knowledge of those matters;
 - (b) kept in the course of regularly conducted business activity; and
 - (c) made by the regularly conducted business activity as a regular practice.

I declare under penalty of perjury that the foregoing is true and correct. Executed on [date].

-	[Name]	



U.S. Securities and Exchange Commission

Data Delivery Standards

This document describes the technical requirements for paper and electronic document productions to the U.S. Securities and Exchange Commission (SEC). **Any questions or proposed file formats other than those described below must be discussed with the legal and technical staff of the SEC Division of Enforcement prior to submission. **

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De	elivery Formats	2
	I. Imaged Productions	3
	I. Imaged Productions	2
	2. Image Cross-Reference File	
	3. Data File	3
	4. Text	
	5. Linked Native Files	
	II. Native File Productions without Load Files	
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	IV. Audio Files V. Video Files	
	VI. Electronic Trade and Bank Records	
	VII. Electronic Phone Records	
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General Instructions

Conoral Instructions

The current mailing address for all physical productions sent to the SEC is:

ENF-CPU (U.S. Securities & Exchange Commission), 14420 Albemarle Point Place, Suite 102, Chantilly, VA 20151-1750

Electronic files must be produced in their native format, i.e. the format in which they are ordinarily used and maintained during the normal course of business. For example, an MS Excel file must be produced as an MS Excel file rather than an image of a spreadsheet. (Note: An Adobe PDF file is not considered a native file unless the document was initially created as a PDF.)

In the event produced files require the use of proprietary software not commonly found in the workplace, the SEC will explore other format options with the producing party.

The proposed use of file de-duplication methodologies or computer-assisted review or technology-assisted review (TAR) during the processing of documents must be discussed with and approved by the legal and technical staff of the Division of Enforcement (ENF). If your production will be de-duplicated it is vital that you 1) preserve any unique metadata associated with the duplicate files, for example, custodian name and file location and, 2) make that unique metadata part of your production to the SEC.

General requirements for ALL document productions are:

- 1. A cover letter must be included with each production and should include the following information:
 - Case number, case name and requesting SEC staff member name
 - b. A list of each piece of media included in the production with its unique production volume number
 - c. A list of custodians, identifying the Bates range for each custodian
 - d. A list of redacted documents and the redaction reason
 - c. The time zone in which the emails were standardized during conversion
 - f. Whether the production contains native files produced from Mac operating system environments
- Data can be produced on CD, DVD, thumb drive, etc., using the media requiring the least number of deliverables and labeled with the following:
 - a. Case number
 - b. Production date
 - c. Producing party
 - d. Bates range (if applicable)
- All submissions must be organized by custodian unless otherwise instructed.
- All document family groups, i.e. email attachments, embedded files, etc., should be produced together and children files should follow parent files sequentially in the Bates numbering.
- All load-ready collections should include only one data load file and one image pointer file.
- All load-ready text must be produced as separate document-level text files.
- All load-ready collections should account for custodians in the custodian field.
- 8. All load-ready collections must provide the extracted contents of any container files to ensure all relevant files are produced as separate records.
- Audio files should be separated from data files if both are included in the production.
- 10. Only alphanumeric characters and the underscore character are permitted in file names and folder names. Special characters are not permitted.
- 11. All electronic productions submitted on media must be produced using industry standard self-extracting encryption software.
- 12. The SEC uses 7zip to access compressed files. Note that the SEC cannot accept files that use AES-256 Jpeg or pkAES-256-Cert Deflate compression methods, even if the files are created with 7zip. If you have any questions or need additional information, please reach out to the requesting SEC staff member.
- 13. Electronic productions of 30 GB or less are strongly encouraged to be submitted via Secure File Transfer. All Secure File Transfers should be sent to the SEC Centralized Production Unit (ENF-CPU@sec.gov) with a CC to the requesting SEC staff member. If you do not have your own Secure File Transfer application, you may reach out to the requesting SEC staff member for a link to the SEC system in order to upload your production. If using the SEC Secure File Transfer system, you will NOT be able to CC individuals outside the SEC on your upload transmission. Note that the SEC cannot accept productions made using file sharing sites such as Google Drive or Microsoft Office 365.
- 14. Productions containing BSA or SAR material must be encrypted. Secure File Transfer applications may be used to produce BSA or SAR material. BSA or SAR material should be segregated and appropriately marked as BSA or SAR, or should be produced separately from other case related records.
- 15. Passwords for electronic documents, files, compressed archives and encrypted media must be provided separately either via email or in a cover letter apart from the media.
- 16. All electronic productions should be produced free of computer viruses.
- 17. Before producing forensically collected images, parties should reach out to the requesting SEC staff member in order to discuss appropriate handling.
- 18. Before producing unique data sets (large sets of relational data, website reconstruction, chat room data, etc.), parties should reach out to the requesting SEC staff member in order to discuss an appropriate production format.
- Additional technical descriptions can be found in the addendum to this document.

Please note that productions sent to the SEC via United States Postal Service are subject to Mail Irradiation, and as a result electronic productions may be damaged.

Delivery Formats

Imaged Productions

The SEC prefers that all scanned paper and electronic file collections be produced in a structured format including industry standard load files, Bates numbered image files, native files and searchable document-level text files. Bates numbers should not contain spaces. Hyphens (-) and underscores (-) are acceptable.

1. Images

- Black and white images must be 300 DPI Group IV single-page TIFF files
- b. Color images must be produced in JPEG format
- File names cannot contain embedded spaces or special characters (including the comma)
- d. Folder names cannot contain embedded spaces or special characters (including the comma)
- e. All image files must have a unique file name, i.e. Bates number
- f. Images must be endorsed with sequential Bates numbers in the lower right corner of each image
- The number of image files per folder should not exceed 2,000 files g.
- h. Excel spreadsheets should have a placeholder image named by the Bates number of the file
- AUTOCAD/photograph files should be produced as a single page JPEG file

2. Image Cross-Reference File

The image cross-reference file (LOG or .OPT) links the images to the database records. It should be a comma-delimited file consisting of seven fields per line with a line in the cross-reference file for every image in the database with the following format:

ImageID, VolumeLabel, ImageFilePath, DocumentBreak, FolderBreak, BoxBreak, PageCount

3. Data File

The data file (.DAT) contains all of the fielded information that will be loaded into the database.

- The first line of the .DAT file must be a header row identifying the field names
- The .DAT file must use the following *Concordance*® default delimiters:

Comma ¶ ASCII character (020)

Quote b ASCII character (254)

- c. If the .DAT file is produced in Unicode format it must contain the byte order marker
- d. Date fields should be provided in the format: mm/dd/yyyy
- Date and time fields must be two separate fields
- The time zone must be included in all time fields f.
- If the production includes imaged emails and attachments, the attachment fields must be included to preserve the parent/child relationship between an email and its attachments
- An OCRPATH field must be included to provide the file path and name of the extracted text file on the produced storage media. The text file must be named after the FIRSTBATES. Do not include the text in the .DAT file.
- For productions with native files, a LINK field must be included to provide the file path and name of the native file on the produced storage media. The native file must be named after the FIRSTBATES.
- BEGATTACH and ENDATTACH fields must be two separate fields
- A complete list of metadata fields is available in Addendum A to this document

4. Text

Text must be produced as separate document-level text files, not as fields within the .DAT file. The text files must be named per the FIRSTBATES/Image Key and the full path to the text file (OCRPATII) should be included in the .DAT file. Text files may be in either ANSI or Unicode format, however, ALL text files must be in the same format within the same production. Note that productions containing text with foreign characters must produce text files in Unicode format to preserve the foreign characters. Text files must be in a separate folder, and the number of text files per folder should not exceed 2,000 files. There should be no special characters (including commas) in the folder names. For redacted documents, provide the full text for the redacted version.

Linked Native Files

Copies of original email and native file documents/attachments must be included for all electronic productions.

- a. Native file documents must be named per the FIRSTBATES number
- b. The full path of the native file must be provided in the .DAT file for the LINK field
- The number of native files per folder should not exceed 2,000 files

II. Native File Production without Load Files

With prior approval, native files may be produced without load files. Native file productions should not be Bates numbered. Native files must be produced as they are maintained in the normal course of business and organized by custodian-named file folders. Native email files (.PST or .MBOX) must be separated by custodian.

III. Adobe PDF File Production

With prior approval, Adobe PDF files may be produced in native file format.

- 1. All PDFs must be unitized at the document level, i.e. each PDF must represent a discrete document.
- 2. PDF files should be produced in separate folders named by the custodian. The folders should not contain any special characters (including commas).
- 3. All PDF files must contain embedded text that includes all discernible words within the document, not selected text or image only. This requires all layers of the PDF to be flattened first.
- 4. If PDF files are Bates endorsed, the PDF files must be named by the Bates range.

IV. Audio Files

Audio files from telephone recording systems must be produced in a format that is playable using Microsoft Windows Media PlayerTM. Additionally, the call information (metadata) related to each audio recording MUST be provided. The metadata file must be produced in a delimited text format. Field names must be included in the first row of the text file. The metadata must include, at a minimum, the following fields:

1) Caller Name: Caller's name or account/identification number

2) Originating Number: Caller's phone number3) Called Party Name: Called party's name

4) Terminating Number: Called party's phone number

5) Date: Date of call6) Time: Time of call

7) Filename: Filename of audio file

V. Video Files

Video files must be produced in a format that is playable using Microsoft Windows Media PlayerTM.

VI. Electronic Trade and Bank Records

When producing electronic trade records, bank records, or financial statements, provide the files in one of the following formats:

- 1. MS Excel spreadsheet with header information detailing the field structure. If any special codes exist in the dataset, a separate document must be provided that details all such codes. If details of the field structure do not fit in the header, a separate document must be provided that includes such details.
- 2. Delimited text file with header information detailing the field structure. The preferred delimiter is a vertical bar "|". If any special codes exist in the dataset, a separate document must be provided that details all such codes. If details of the field structure do not fit in the header, a separate document must be provided that includes such details.

VII. Electronic Phone Records

When producing an MS Excel spreadsheet for electronic phone records, provide the files in the following format:

- 1. MS Excel spreadsheet with header information detailing the field structure. If any special codes exist in the dataset, a separate document must be provided that details all such codes. If details of the field structure do not fit in the header, a separate document must be provided that includes such details. Data must be formatted in its native format (i.e. dates in a date format, numbers in an appropriate numerical format, and numbers with leading zeroes as text).
 - a. The metadata that must be included is outlined in **Addendum B** of this document. Each field of data must be loaded into a separate column. For example, Date and Start_Time must be produced in separate columns and not combined into a single column containing both pieces of information. Any fields of data that are provided in addition to those listed in **Addendum B** must also be loaded into separate columns.

SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549

Supplemental Information for Persons Requested to Supply Information Voluntarily or Directed to Supply Information Pursuant to a Commission Subpoena

A. False Statements and Documents

Section 1001 of Title 18 of the United States Code provides that fines and terms of imprisonment may be imposed upon:

[W]hoever, in any matter within the jurisdiction of the executive, legislative, or judicial branch of the Government of the United States, knowingly and willfully--

- (1) falsifies, conceals, or covers up by any trick, scheme, or device a material fact;
- (2) makes any materially false, fictitious, or fraudulent statement or representation; or
- (3) makes or uses any false writing or document knowing the same to contain any materially false, fictitious, or fraudulent statement or entry.

Section 1519 of Title 18 of the United States Code provides that fines and terms of imprisonment may be imposed upon:

Whoever knowingly alters, destroys, mutilates, conceals, covers up, falsifies, or makes a false entry in any record, document, or tangible object with the intent to impede, obstruct, or influence the investigation or proper administration of any matter within the jurisdiction of any department or agency of the United States . . ., or in relation to or contemplation of any such matter.

B. Testimony

If your testimony is taken, you should be aware of the following:

- 1. Record. Your testimony will be transcribed by a reporter. If you desire to go off the record, please indicate this to the Commission employee taking your testimony, who will determine whether to grant your request. The reporter will not go off the record at your, or your counsel's, direction.
- 2. Counsel. You have the right to be accompanied, represented and advised by counsel of your choice. Your counsel may advise you before, during and after your testimony; question you briefly at the conclusion of your testimony to clarify any of the answers you give during testimony; and make summary notes during your testimony solely for your use. If you are accompanied by counsel, you may consult privately.

If you are not accompanied by counsel, please advise the Commission employee taking your testimony if, during the testimony, you desire to be accompanied, represented and advised by counsel. Your testimony will be adjourned once to afford you the opportunity to arrange to be so accompanied, represented or advised.

You may be represented by counsel who also represents other persons involved in the Commission's investigation. This multiple representation, however, presents a potential conflict of interest if one client's interests are or may be adverse to another's. If you are represented by counsel who also represents other persons involved in the investigation, the Commission will assume that you and counsel have discussed and resolved all issues concerning possible conflicts of interest. The choice of counsel, and the responsibility for that choice, is yours.

3. Transcript Availability. Rule 6 of the Commission's Rules Relating to Investigations, 17 CFR 203.6, states:

A person who has submitted documentary evidence or testimony in a formal investigative proceeding shall be entitled, upon written request, to procure a copy of his documentary evidence or a transcript of his testimony on payment of the appropriate fees: *Provided, however*, That in a nonpublic formal investigative proceeding the Commission may for good cause deny such request. In any event, any witness, upon proper identification, shall have the right to inspect the official transcript of the witness' own testimony.

If you wish to purchase a copy of the transcript of your testimony, the reporter will provide you with a copy of the appropriate form. Persons requested to supply information voluntarily will be allowed the rights provided by this rule.

4. *Perjury.* Section 1621 of Title 18 of the United States Code provides that fines and terms of imprisonment may be imposed upon:

Whoever-

(1) having taken an oath before a competent tribunal, officer, or person, in any case in which a law of the United States authorizes an oath to be administered, that he will testify, declare,

depose, or certify truly, or that any written testimony, declaration, deposition, or certificate by him subscribed, is true, willfully and contrary to such oath states or subscribes any material matter which he does not believe to be true; or

- (2) in any declaration, certificate, verification, or statement under penalty of perjury as permitted under section 1746 of title 28, United States Code, willfully subscribes as true any material matter which he does not believe to be true.
- 5. Fifth Amendment and Voluntary Testimony. Information you give may be used against you in any federal, state, local or foreign administrative, civil or criminal proceeding brought by the Commission or any other agency.

You may refuse, in accordance with the rights guaranteed to you by the Fifth Amendment to the Constitution of the United States, to give any information that may tend to incriminate you.

If your testimony is not pursuant to subpoena, your appearance to testify is voluntary, you need not answer any question, and you may leave whenever you wish. Your cooperation is, however, appreciated.

6. Formal Order Availability. If the Commission has issued a formal order of investigation, it will be shown to you during your testimony, at your request. If you desire a copy of the formal order, please make your request in writing.

C. Submissions and Settlements

Rule 5(c) of the Commission's Rules on Informal and Other Procedures, 17 CFR 202.5(c), states:

Persons who become involved in . . . investigations may, on their own initiative, submit a written statement to the Commission setting forth their interests and position in regard to the subject matter of the investigation. Upon request, the staff, in its discretion, may advise such persons of the general nature of the investigation, including the indicated violations as they pertain to them, and the amount of time that may be available for preparing and submitting a statement prior to the presentation of a staff recommendation to the Commission for the commencement of an administrative or injunction proceeding. Submissions by interested persons should be forwarded to the appropriate Division Director or Regional Director with a copy to the staff members conducting the investigation and should be clearly referenced to the specific investigation to which they relate. In the event a recommendation for the commencement of an enforcement proceeding is presented by the staff, any submissions by interested persons will be forwarded to the Commission in conjunction with the staff memorandum.

The staff of the Commission routinely seeks to introduce submissions made pursuant to Rule 5(c) as evidence in Commission enforcement proceedings, when the staff deems appropriate.

Rule 5(f) of the Commission's Rules on Informal and Other Procedures, 17 CFR 202.5(f), states:

In the course of the Commission's investigations, civil lawsuits, and administrative proceedings, the staff, with appropriate authorization, may discuss with persons involved the disposition of such matters by consent, by settlement, or in some other manner. It is the policy of the Commission, however, that the disposition of any such matter may not, expressly or impliedly, extend to any criminal charges that have been, or may be, brought against any such person or any recommendation with respect thereto. Accordingly, any person involved in an enforcement matter before the Commission who consents, or agrees to consent, to any judgment or order does so solely for the purpose of resolving the claims against him in that investigative, civil, or administrative matter and not for the purpose of resolving any criminal charges that have been, or might be, brought against him. This policy reflects the fact that neither the Commission nor its staff has the authority or responsibility for instituting, conducting, settling, or otherwise disposing of criminal proceedings. That authority and responsibility are vested in the Attorney General and representatives of the Department of Justice.

D. Freedom of Information Act

The Freedom of Information Act, 5 U.S.C. 552 (the "FOIA"), generally provides for disclosure of information to the public. Rule 83 of the Commission's Rules on Information and Requests, 17 CFR 200.83, provides a procedure by which a person can make a written request that information submitted to the Commission not be disclosed under the FOIA. That rule states that no determination as to the validity of such a request will be made until a request for disclosure of the information under the FOIA is received. Accordingly, no response to a request that information not be disclosed under the FOIA is necessary or will be given until a request for disclosure under the FOIA is received. If you desire an acknowledgment of receipt of your written request that information not be disclosed under the FOIA, please provide a duplicate request, together with a stamped, self-addressed envelope.

E. Authority for Solicitation of Information

Persons Directed to Supply Information Pursuant to Subpoena. The authority for requiring production of information is set forth in the subpoena. Disclosure of the information to the Commission is mandatory, subject to the valid assertion of any legal right or privilege you might have.

Persons Requested to Supply Information Voluntarily. One or more of the following provisions authorizes the Commission to solicit the information requested: Sections 19 and/or 20 of the Securities Act of 1933; Section 21 of the Securities Exchange Act of 1934; Section 321 of the Trust Indenture Act of 1939; Section 42 of the Investment Company Act of 1940; Section 209 of the Investment Advisers Act of 1940; and 17 CFR 202.5. Disclosure of the requested information to the Commission is voluntary on your part.

F. Effect of Not Supplying Information

Persons Directed to Supply Information Pursuant to Subpoena. If you fail to comply with the subpoena, the Commission may seek a court order requiring you to do so. If such an order is obtained and you thereafter fail to supply the information, you may be subject to civil and/or criminal sanctions for contempt of court. In addition, Section 21(c) of the Securities Exchange Act of 1934, Section 42(c) of the Investment Company Act of 1940, and Section 209(c) of the Investment Advisers Act of 1940 provide that fines and terms of imprisonment may be imposed upon any person who shall, without just cause, fail or refuse to attend and testify or to answer any lawful inquiry, or to produce books, papers, correspondence, memoranda, and other records in compliance with the subpoena.

Persons Requested to Supply Information Voluntarily. There are no direct sanctions and thus no direct effects for failing to provide all or any part of the requested information.

G. Principal Uses of Information

The Commission's principal purpose in soliciting the information is to gather facts in order to determine whether any person has violated, is violating, or is about to violate any provision of the federal securities laws or rules for which the Commission has enforcement authority, such as rules of securities exchanges and the rules of the Municipal Securities Rulemaking Board. Facts developed may, however, constitute violations of other laws or rules. Information provided may be used in Commission and other agency enforcement proceedings. Unless the Commission or its staff explicitly agrees to the contrary in writing, you should not assume that the Commission or its staff acquiesces in, accedes to, or concurs or agrees with, any position, condition, request, reservation of right, understanding, or any other statement that purports, or may be deemed, to be or to reflect a limitation upon the Commission's receipt, use, disposition, transfer, or retention, in accordance with applicable law, of information provided.

H. Routine Uses of Information

The Commission often makes its files available to other governmental agencies, particularly United States Attorneys and state prosecutors. There is a likelihood that information supplied by you will be made available to such agencies where appropriate. Whether or not the Commission makes its files available to other governmental agencies is, in general, a confidential matter between the Commission and such other governmental agencies.

Set forth below is a list of the routine uses which may be made of the information furnished.

- 1. To appropriate agencies, entities, and persons when (1) the SEC suspects or has confirmed that there has been a breach of the system of records, (2) the SEC has determined that as a result of the suspected or confirmed breach there is a risk of harm to individuals, the SEC (including its information systems, programs, and operations), the Federal Government, or national security; and (3) the disclosure made to such agencies, entities, and persons is reasonably necessary to assist in connection with the SEC's efforts to respond to the suspected or confirmed breach or to prevent, minimize, or remedy such harm.
- 2. To other Federal, state, local, or foreign law enforcement agencies; securities self-regulatory organizations; and foreign financial regulatory authorities to assist in or coordinate regulatory or law enforcement activities with the SEC.
- 3. To national securities exchanges and national securities associations that are registered with the SEC, the Municipal Securities Rulemaking Board; the Securities Investor Protection Corporation; the Public Company Accounting Oversight Board; the Federal banking authorities, including, but not limited to, the Board of Governors of the Federal Reserve System, the Comptroller of the Currency, and the Federal Deposit Insurance Corporation; state securities regulatory agencies or organizations; or regulatory authorities of a foreign government in connection with their regulatory or enforcement responsibilities.
- 4. By SEC personnel for purposes of investigating possible violations of, or to conduct investigations authorized by, the Federal securities laws.
- 5. In any proceeding where the Federal securities laws are in issue or in which the Commission, or past or present members of its staff, is a party or otherwise involved in an official capacity.
- 6. In connection with proceedings by the Commission pursuant to Rule 102(e) of its Rules of Practice, 17 CFR 201.102(e).

- 7. To a bar association, state accountancy board, or other Federal, state, local, or foreign licensing or oversight authority; or professional association or self-regulatory authority to the extent that it performs similar functions (including the Public Company Accounting Oversight Board) for investigations or possible disciplinary action.
- 8. To a Federal, state, local, tribal, foreign, or international agency, if necessary to obtain information relevant to the SEC's decision concerning the hiring or retention of an employee; the issuance of a security clearance; the letting of a contract; or the issuance of a license, grant, or other benefit.
- 9. To a Federal, state, local, tribal, foreign, or international agency in response to its request for information concerning the hiring or retention of an employee; the issuance of a security clearance; the reporting of an investigation of an employee; the letting of a contract; or the issuance of a license, grant, or other benefit by the requesting agency, to the extent that the information is relevant and necessary to the requesting agency's decision on the matter.
- 10. To produce summary descriptive statistics and analytical studies, as a data source for management information, in support of the function for which the records are collected and maintained or for related personnel management functions or manpower studies; may also be used to respond to general requests for statistical information (without personal identification of individuals) under the Freedom of Information Act.
- 11. To any trustee, receiver, master, special counsel, or other individual or entity that is appointed by a court of competent jurisdiction, or as a result of an agreement between the parties in connection with litigation or administrative proceedings involving allegations of violations of the Federal securities laws (as defined in section 3(a)(47) of the Securities Exchange Act of 1934, 15 U.S.C. 78c(a)(47)) or pursuant to the Commission's Rules of Practice, 17 CFR 201.100 through 900 or the Commission's Rules of Fair Fund and Disgorgement Plans, 17 CFR 201.1100 through 1106, or otherwise, where such trustee, receiver, master, special counsel, or other individual or entity is specifically designated to perform particular functions with respect to, or as a result of, the pending action or proceeding or in connection with the administration and enforcement by the Commission of the Federal securities laws or the Commission's Rules of Practice or the Rules of Fair Fund and Disgorgement Plans.
- 12. To any persons during the course of any inquiry, examination, or investigation conducted by the SEC's staff, or in connection with civil litigation, if the staff has reason to believe that the person to whom the record is disclosed may have further information about the matters related therein, and those matters appeared to be relevant at the time to the subject matter of the inquiry.
- 13. To interns, grantees, experts, contractors, and others who have been engaged by the Commission to assist in the performance of a service related to this system of records and who need access to the records for the purpose of assisting the Commission in the efficient administration of its programs, including by performing clerical, stenographic, or data analysis functions, or by reproduction of records by electronic or other means. Recipients of these records shall be required to comply with the requirements of the Privacy Act of 1974, as amended, 5 U.S.C.
- 14. In reports published by the Commission pursuant to authority granted in the Federal securities laws (as such term is defined in section 3(a)(47) of the Securities Exchange Act of 1934, 15 U.S.C. 78c(a)(47)), which authority shall include, but not be limited to, section 21(a) of the Securities Exchange Act of 1934, 15 U.S.C. 78u(a)).
- 15. To members of advisory committees that are created by the Commission or by Congress to render advice and recommendations to the Commission or to Congress, to be used solely in connection with their official designated functions.
- 16. To any person who is or has agreed to be subject to the Commission's Rules of Conduct, 17 CFR 200.735-1 through 200.735-18, and who assists in the investigation by the Commission of possible violations of the Federal securities laws (as such term is defined in section 3(a)(47) of the Securities Exchange Act of 1934, 15 U.S.C. 78c(a)(47)), in the preparation or conduct of enforcement actions brought by the Commission for such violations, or otherwise in connection with the Commission's enforcement or regulatory functions under the Federal securities laws.
- 17. To a Congressional office from the record of an individual in response to an inquiry from the Congressional office made at the request of that individual.
- 18. To members of Congress, the press, and the public in response to inquiries relating to particular Registrants and their activities, and other matters under the Commission's jurisdiction.
- 19. To prepare and publish information relating to violations of the Federal securities laws as provided in 15 U.S.C. 78c(a)(47)), as amended.
- 20. To respond to subpoenas in any litigation or other proceeding.
- 21. To a trustee in bankruptcy.
- 22. To any governmental agency, governmental or private collection agent, consumer reporting agency or commercial reporting agency, governmental or private employer of a debtor, or any other person, for collection,

including collection by administrative offset, Federal salary offset, tax refund offset, or administrative wage garnishment, of amounts owed as a result of Commission civil or administrative proceedings.

23. To another Federal agency or Federal entity, when the SEC determines that information from this system of records is reasonably necessary to assist the recipient agency or entity in (1) responding to a suspected or confirmed breach or (2) preventing, minimizing, or remedying the risk of harm to individuals, the recipient agency or entity (including its information systems, programs, and operations), the Federal Government, or national security, resulting from a suspected or confirmed breach.

* * * * *

Small Business Owners: The SEC always welcomes comments on how it can better assist small businesses. If you would like more information, or have questions or comments about federal securities regulations as they affect small businesses, please contact the Office of Small Business Policy, in the SEC's Division of Corporation Finance, at 202-551-3460. If you would prefer to comment to someone outside of the SEC, you can contact the Small Business Regulatory Enforcement Ombudsman at http://www.sba.gov/ombudsman or toll free at 888-REG-FAIR. The Ombudsman's office receives comments from small businesses and annually evaluates federal agency enforcement activities for their responsiveness to the special needs of small business.

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Data Delivery Standards

VIII. Audit Workpapers

The SEC prefers for workpapers to be produced in two formats: (1) With Bates numbers in accordance with the SEC Data Delivery Standards; and (2) in native format via laptop computer, web-based viewing platform, or otherwise, allowing for viewing in the same format and organization as the firm's audit team. Prior to production of workpapers via laptop computer or web-based viewing platform, audit firms should contact the requesting SEC staff member for additional information and written agreements addressing use of software, access, and viewing protocols.

IX. Mobile Device Data

Before producing any mobile device data (including but not limited to text messages and application data) parties should reach out to the requesting SEC staff member in order to discuss the appropriate production format. Productions containing chat data from applications must be identified at the time of production and the following information must be provided to the requesting SEC staff member and the SEC Centralized Production Unit: chat application, chat data format, and how the length of a chat is determined (i.e. set duration of time, number of minutes without messages, etc.)

ADDENDUM A

The metadata of electronic document collections should be extracted and provided in a .DAT file using the field definition and formatting described below:

Field Name Sample Data Description FIRSTBATES EDC0000001 First Bates number of native file documents. LASTBATES EDC0000001 Last Bates number of native file documents.	
	ent/email
	ent/email
**The LASTBATES field should be po	opulated
for single page documents/emails.	
ATTACHRANGE EDC0000001 - EDC00000015 Bates number of the first page of	f the parent
document to the Bates number of the la	ast page of the
last attachment "child" document	
BEGATTACH EDC0000001 First Bates number of attachment range	
ENDATTACH EDC0000015 Last Bates number of attachment range	
PARENT_BATES EDC0000001 First Bates number of parent document/	
**This PARENT_BATES field should	
in each record representing an attack	hment "child"
document	
CHILD_BATES EDC0000002; EDC0000014 First Bates number of "child" attachmo	
more than one Bates number listed dep	pending on the
number of attachments	, , , , ,
**The CHILD_BATES field should be	
cach record representing a "parent" de	
CUSTODIAN Smith, John Email: Mailbox where the email reside	
Native: Name of the individual or de	pariment from
whose files the document originated	
FROM John Smith Email: Sender	
Native: Author(s) of document	
**semi-colon should be used to separat	te multiple
TO Coffman, Janice: LeeW Recipient(s)	
	4
[mailto:LeeW@MSN.com] **semi-colon should be used to separate entries	te multiple
CC Frank Thompson [mailto: Carbon copy recipient(s)	
frank_Thompson@cdt.com]	to multiple
entries	ic munipic
BCC John Cain Blind carbon copy recipient(s)	
**semi-colon should be used to separat	te multiple
entries	te manapie
SUBJECT Board Meeting Minutes Email: Subject line of the email	
Native: Title of document (if available)	
FILE_NAME BoardMeetingMinutes.docx Native: Name of the original native	file, including
extension	
DATE_SENT 10/12/2010 Email: Date the email was sent	
Native: (empty)	
TIME SENT/TIME 07:05 PM GMT Email: Time the email was sent/ Time	zone in which
ZONE the emails were standardized during co	
Native: (empty)	
**This data must be a separate field and	d cannot be
combined with the DATE_SENT field	
TIME_ZONE GMT The time zone in which the emails wer	re standardized
during conversion.	
Email: Time zone	
Native: (empty)	

LINK	D:\001\EDC0000001.msg	Hyperlink to the email or native file document **The linked file must be named per the FIRSTBATES number
MIME_TYPE	application/msword	The content type of an email or native file document as identified/extracted from the header
FILE_EXTEN	MSG	The file type extension representing the email or native file document; will vary depending on the format
AUTHOR	John Smith	Email: (empty) Native: Author of the document
LAST_AUTHOR	Jane Doe	Email: (empty) Native: Last Author of the document
DATE_CREATED	10/10/2010	Email: (empty) Native: Date the document was created
TIME_CREATED/T IME_ZONE	10:25 AM GMT	Email: (empty) Native: Time the document was created including time zone **This data must be a separate field and cannot be combined with the DATE_CREATED field
DATE_MOD	10/12/2010	Email: (empty) Native: Date the document was last modified
TIME_MOD/TIME_ ZONE	07:00 PM GMT	Email: (empty) Native: Time the document was last modified including the time zone **This data must be a separate field and cannot be combined with the DATE_MOD field
DATE_ACCESSD	10/12/2010	Email: (empty) Native: Date the document was last accessed
TIME_ACCESSD/T IME_ZONE	07:00 PM GMT	Email: (empty) Native: Time the document was last accessed including the time zone **This data must be a separate field and cannot be combined with the DATE_ACCESSD field
PRINTED_DATE	10/12/2010	Email: (empty) Native: Date the document was last printed
FILE_SIZE	5,952	Size of native file document/email in KB
PGCOUNT	1	Number of pages in native file document/email
PATH	J:\Shared\SmithJ\October Agenda.doc	Email: (empty) Native: Path where native file document was stored including original file name.
INTFILEPATH	Personal Folders\Deleted Items\Board Meeting Minutes.msg	Email: original location of email including original file name. Native: (empty)
INTMSGID	<000805c2c71bS75977050Scb 8306d1@MSN>	Email: Unique Message ID Native: (empty)

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HEADER SHA254	Return-Path: <example_from@dc.edu> X-SpamCatcher-Score:1[X] Received:from[136.167.40.119] (HELO dc.edu) by fe3.dc.edu (CommuniGate Pro SMTP4.1.8) with ESMTP-TLS id 61258719 for example_to@mail.dc.edu; Mon, 23 Aug 2004 11:40:10 - 0400 Message-ID: <4129F3CA.2020509@dc.edu> Date: Mon, 23 Aug 2005 11:40:36 -400 From: Taylor Evans <example_from@dc.edu> User-Agent:Mozilla/5.0 (Windows;U; Windows NT 5.1: en-US;rv:1.0.1) Gecko/20020823 Netscape/7.0 X-Accept-Language:en-us,en MIME-Version:1.0 To: Jon Smith <example_to@mail.dc.edu> Subject:Business Development Meeting Content-Type: text/plain;charset=us-ascii; format=flowed Content-Transfer-Encoding:7bit</example_to@mail.dc.edu></example_from@dc.edu></example_from@dc.edu>	Email: The email header information Native: (empty) SHA-256 hash value of the document.
SHA256	AD6128C5CA40164AF71A1E FC800E12D2F195CE07BB5F8 C813B0888A2DDE6A06F	SHA-230 hash value of the document.
OCRPATH	TEXT/001/EDC0000001.txt	Path to extracted text of the native file

Sample Image Cross-Reference File:

IMG0000001,,E:\001\IMG0000001.TIF,Y,,,
IMG0000002,,E:\001\IMG0000002.TIF,,,,
IMG0000003,,E:\001\IMG0000003.TIF,,,,
IMG0000004,,E:\001\IMG0000005.TIF,Y,,,
IMG0000005,,E:\001\IMG0000005.TIF,Y,,,
IMG0000006,,E:\001\IMG0000006.TIF,,,,,

ADDENDUM B

For Electronic Phone Records, include the following fields in separate columns:

For Calls:

- 1) Account Number
- 2) Connection Date Date the call was received or made
- 3) Connection Time Time call was received or made
- 4) Seizure Time Time it took for the call to be placed in seconds
- 5) Originating Number Phone that placed the call
- 6) Terminating Number Phone that received the call
- 7) Elapsed Time The length of time the call lasted, preferably in seconds
- 8) End Time The time the call ended
- 9) Number Dialed Actual number dialed
- 10) IMEI Originating Unique id to phone used to make call
- 11) IMEI Terminating-Unique id to phone used to receive call
- 12) IMSI Originating Unique id to phone used to make call
- 13) IMSI Terminating- Unique id to phone used to receive call
- 14) Call Codes Identify call direction or other routing information
- 15) Time Zone Time Zone in which the call was received or placed, if applicable

For Text messages:

- 1) Account Number
- 2) Connection Date Date the text was received or made
- 3) Connection Time Time text was received or made
- 4) Originating Number Who placed the text
- 5) Terminating Number Who received the text
- 6) IMEI Originating Unique id to phone used to make text
- 7) IMEI Terminating—Unique id to phone used to receive text
- 8) IMSI Originating Unique id to phone used to make text
- 9) IMSI Terminating- Unique id to phone used to receive text
- 10) Text Code Identify text direction, or other text routing information
- 11) Text Type Code Type of text message (sent SMS, MMS, or other)
- 12) Time Zone Time Zone in which the call was received or placed, if applicable

For Mobile Data Usage:

- 1) Account Number
- Connection Date Date the data was received or made
- 3) Connection Time Time data was received or made
- 4) Originating number Number that used data
- 5) IMEI Originating Unique id of phone that used data
- 6) IMSI Originating Unique id of phone that used data
- 7) Data or Data codes Identify data direction, or other data routing information
- 8) Time Zone Time Zone in which the call was received or placed, if applicable



UNITED STATES SECURITIES AND EXCHANGE COMMISSION

100 PEARL STREET, SUITE 20-100 NEW YORK, NY 10004-2616

DIVISION OF ENFORCEMENT

March 14, 2024

VIA SECURE EMAIL (christy.hubbard@a16z.com and legal@a16z.com)

Andreessen Horowitz c/o Christy Hubbard 2865 Sand Hill Road Menlo Park, CA 94025

Re: C-08950

Dear Ms. Hubbard:

The enclosed subpoena has been issued pursuant to a formal order entered by the United States Securities and Exchange Commission. Pursuant to Rule 8 of the United States Securities and Exchange Commission's Rules Relating to Investigations, 17 C.F.R. § 203.8, I have enclosed a subpoena for documents issued to Andreessen Horowitz, in connection with the above-referenced investigation.

This is a federal civil law enforcement investigation and you must produce all documents described in the attached subpoena. The enclosed subpoena requires Andreessen Horowitz to produce documents to the SEC by March 28, 2024 to:

ENF-CPU U.S. Securities and Exchange Commission 14420 Albemarle Point Place, Suite 102 Chantilly, VA 20151-1750

For smaller electronic productions under 10MB in size, the materials may be emailed to the following email address: ENF-CPU@sec.gov.

		<u>vide a duplica</u>	<u>ite</u> cop	y of any α	locument p	production co	ver letters to	me at
	æsec.gov, (t			(b)(6); (b)(7)(C	vsec.gov	,(b)(6);(b)(7)(C)	at	
(b)(6);	vsec.gov, a	nd (b)(6); (b)(7)(C)	at	(b)(6); (b)(7)(C)	vscc.gov.	Additionally,	please inclu	ide the
SEC matte	r number ar	nd the name of	f the re	equesting	attorney wi	hen respondit	10	

Please carefully read the subpoena attachment, which contains, among other things, important instructions related to the manner of producing documents. In particular, if Andreessen Horowitz prefers to send us copies of original documents, the staff requests that you scan and produce hard copy documents, as well as electronic documents, in an electronic format consistent with the SEC Data Delivery Standards attached hereto. All electronic documents responsive to the subpoena, including all metadata, should also be produced in their native software format. If you have any questions concerning the production of documents in an electronic format, please contact me as soon as possible and in any event before producing documents. For security reasons, we strongly encourage the encryption of sensitive documents before production.

When producing the records, please consecutively number and mark each document produced with a symbol that identifies it as being produced by Andreessen Horowitz and provide an index which briefly identifies the documents produced.

In your cover letter(s) accompanying the production of responsive documents, please enclose a list briefly describing each item you send. The list should identify the paragraph(s) in the subpoena attachment to which each item responds. Please also state in the cover letter(s) whether you believe Andreessen Horowitz has met the obligations of the subpoena by searching carefully and thoroughly for everything called for by the subpoena and sending it all to us.

A copy of the subpoena should be included with the documents that are produced. Correspondence should reference case number and requesting SEC staff member.

Passwords for documents, files, compressed archives, and encrypted media should be provided separately either via email addressed to ENF-CPU@sec.gov, or in a separate cover letter mailed separately from the data. Password correspondence should reference case number and requesting SEC staff member.

In addition, for any documents that qualify as records of regularly conducted activities under Federal Rule of Evidence 902(11), please have the appropriate representative(s) of Andreessen Horowitz complete a business records certification (a sample of which is enclosed) and return it with the document production. Execution of this certification may allow the Commission to introduce the documents provided by Andreessen Horowitz in any subsequent judicial proceeding, without requiring the testimony of a records custodian.

Enclosed is a copy of the Commission's Form 1662, entitled "Supplemental Information for Persons Requested to Supply Information Voluntarily or Directed to Supply Information Pursuant to a Commission Subpoena." This form explains how we may use the information which Andreessen Horowitz provides to the Commission and has other important information. Please provide a copy of this form to Andreessen Horowitz.

This investigation is a non-public, fact-finding inquiry. We are trying to determine whether there have been any violations of the federal securities laws. The investigation does not mean that we have concluded that anyone has violated the law. Also, the investigation does not mean that we have a negative opinion of any person, entity, or security.

If you ha	ve any questions	or would like to	discuss this matter	, you may	contact me at
(b)(6); (b)(7)(C)					

Sincerely,	
(b)(6); (b)(7)(C)	
	Enforcement
(b)(6); (b)(7)(C)	ĝsec.gov

Enclosures:

Subpoena and Attachment Business Records Certification SEC Data Delivery Standards SEC Form 1662



SUBPOENA

UNITED STATES OF AMERICA SECURITIES AND EXCHANGE COMMISSION

C-08950

To: Andreessen Horowitz c/o Christy Hubbard 2865 Sand Hill Road Menlo Park, CA 94025

YOU MUST PRODUCE everything specified in the Attachment to this subpoena to officers of the Securities and Exchange Commission, at the place, date and time specified below:

ENF-CPU, U.S. Securities and Exchange Commission, 14420 Albemarle Point Place, Suite 102 Chantilly, VA 20151-1750, no later than March 28, 2024.

☐ YOU MUST TESTIFY before officers of the Securities and Exchange Commission, at the place, date and time specified below:

FEDERAL LAW REQUIRES YOU TO COMPLY WITH THIS SUBPOENA.

If you do not comply with this subpoena, the SEC may bring an action in Federal Court to enforce this subpoena. Failure to comply with a court order enforcing this subpoena may result in the court imposing a fine, imprisonment, or both.

By: (b)(6); (b)(7)(C) Date: March 14, 2024

U.S. Securities and Exchange Commission New York Regional Office 100 Pearl Street, Suite 20-100 New York, NY 10004-2616

I am an officer of the U.S. Securities and Exchange Commission authorized to issue subpoenas in this matter. The Securities and Exchange Commission has issued a formal order authorizing this investigation under Section 20(a) of the Securities Act of 1933.

NOTICE TO WITNESS: If you claim a witness fee or mileage, submit this subpoena with the claim voucher.

SUBPOENA ATTACHMENT FOR ANDREESSEN HOROWITZ C-08950

March 14, 2024

Definitions

As used in this subpoena, the words and phrases listed below shall have the following meanings:

- 1. "Relevant Period" means July 1, 2018 to the present.
- 2. "Andreessen Horowitz" means the entity doing business under the names "Andreessen Horowitz" or "a16z," including parents, subsidiaries, affiliates, predecessors, successors, officers, directors, employees, agents, general partners, limited partners, partnerships and aliases, code names, or trade or business names used by any of the foregoing.
- 3. The "Ethereum Foundation" means the entity or business doing business under the name "Ethereum Foundation," including, but not limited to, ethereum.org and parents, subsidiaries, affiliates, predecessors, successors, officers, directors, employees, agents, general partners, limited partners, partnerships and aliases, owners, code names, or trade or business names used by any of the foregoing.
- 4. "The Merge" or "Ethereum 2.0" means the transition by the Ethereum blockchain of its consensus mechanism from proof-of-work to proof-of-stake.
- 5. "Beacon Chain" means the original proof-of-stake blockchain that was launched in 2020 that ran alongside the original proof-of-work Ethereum blockchain.
- 6. "Secondary Trading Platforms" means any exchange, website, organization, entity, business, or protocol that allow Persons to buy or sell digital assets.
- 7. "Crypto Venture Capital Firms" means any Person or entity that provides financing or other support to startup or early-stage crypto asset projects.
- 8. The term "you" and "your" means the Person to whom or entity to which this subpoena was issued.
- 9. "Document" shall include, but is not limited to, any written, printed, or typed matter including, but not limited to all drafts and copies bearing notations or marks not found in the original, letters and correspondence, interoffice communications, slips, tickets, records, worksheets, financial records, accounting documents, bookkeeping documents, memoranda, reports, manuals, telephone logs, facsimiles, messages of any type, telephone messages, text messages, voice mails, tape recordings, notices, instructions, minutes, summaries, notes of meetings, file folder markings, and any other organizational indicia, purchase orders, information recorded by photographic process, including microfilm and microfiche, computer printouts, spreadsheets, and other electronically

stored information, including writings, drawings, graphs, charts, photographs, sound recordings, images, and other data or data compilations that are stored in any medium from which information can be retrieved, obtained, manipulated, or translated.

- "Communication" means any correspondence, contact, discussion, e-mail, instant 10. message, or any other kind of oral or written exchange or transmission of information (in the form of facts, ideas, inquiries, or otherwise), including but not limited to those made on Social Media Services, and any response thereto between two or more Persons or entities, including, without limitation, all telephone conversations, face-to-face meetings or conversations, internal or external discussions, or exchanges of a Document or Documents.
- 11. "Concerning" means directly or indirectly, in whole or in part, describing, constituting, evidencing, recording, evaluating, substantiating, concerning, referring to, alluding to, in connection with, commenting on, relating to, regarding, discussing, showing, analyzing or reflecting.
- 12. "Agreement" means any actual or contemplated (i) written or oral Agreement; (ii) term or provision of such Agreement; or (iii) amendment of any nature or termination of such Agreement. A request for any Agreement among or between specified parties includes a request for all Documents Concerning (i) any actual or contemplated Agreement among or between such parties, whether or not such Agreement included any other Person; (ii) the drafting or negotiation of any such Agreement; (iii) any actual or contemplated demand, request or application for any such Agreement, and any response thereto; and (iv) any actual or contemplated objection or refusal to enter into any such Agreement, and any response thereto.
- "Person" means a natural person, firm, association, organization, partnership, business, 13. trust, corporation, bank or any other private or public entity.
- To the extent necessary to bring within the scope of this this subpoena any information or 14. Documents that might otherwise be construed to be outside its scope:
 - the word "or" means "and/or"; a.
 - the word "and" means "and/or"; b.
 - the functional words "each," "every" "any" and "all" shall each be deemed to c. include each of the other functional words:
 - the masculine gender includes the female gender and the female gender includes d. the masculine gender; and
 - the singular includes the plural and the plural includes the singular. e.

Instructions

Unless otherwise specified, this subpoena calls for production of the original Documents 1. and all copies and drafts of same. Documents responsive to this subpoena may be in

- 2. For Documents in paper format, you may send the originals, or, if you prefer, you may send copies of the originals. The Commission cannot reimburse you for the copying costs. If you are sending copies, the staff requests that you scan (rather than photocopy) hard copy Documents and produce them in an electronic format consistent with the SEC Data Delivery Standards. Alternatively, you may send us photocopies of the Documents in paper format. If you choose to send copies, you <u>must</u> secure and retain the originals and store them in a safe place. The staff may later request or require that you produce the originals.
- 3. Whether you scan or photocopy Documents, the copies must be identical to the originals, including even faint marks or print. Also, please note that if copies of a Document differ in any way, they are considered separate Documents and you must send each one. For example, if you have two copies of the same letter, but only one of them has handwritten notes on it, you must send both the clean copy and the one with notes.
- 4. In producing a photocopy of an original Document that contains post-it(s), notation flag(s), or other removable markings or attachments which may conceal all or a portion of the markings contained in the original Document, photocopies of the original Document both with and without the relevant post-it(s), notation flag(s), or removable markings or attachments should be produced.
- 5. Documents should be produced as they are kept in the ordinary course of business or be organized and labeled to correspond with the categories in this request. In that regard, Documents should be produced in a unitized manner, i.e., delineated with staples or paper clips to identify the Document boundaries.
- 6. Documents should be labeled with sequential numbering (bates-stamped).
- 7. The scope of any given request should not be limited or narrowed on the basis that it calls for Documents that are responsive to another request.
- 8. This subpoena covers all Documents in or subject to your possession, custody or control, including all Documents that are not in your immediate possession but that you have the effective ability to obtain, that are responsive, in whole or in part, to any of the individual requests set forth below. If, for any reason including a claim of attorney-client privilege you do not produce something called for by the request, you should submit a list of what you are not producing. The list should describe each item separately, noting:
 - a. its author(s);
 - b. its date:
 - c. its subject matter;

- d. the name of the Person who has the item now, or the last Person known to have it;
- e. the names of everyone who ever had the item or a copy of it, and the names of everyone who was told the item's contents;
- f. the basis upon which you are not producing the responsive Document;
- g. the specific request in the subpoena to which the Document relates;
- h. the attorney(s) and the client(s) involved; and
- i. in the case of the work product doctrine, the litigation for which the Document was prepared in anticipation.
- 9. If Documents responsive to this subpoena no longer exist because they have been lost, discarded, or otherwise destroyed, you should identify such Documents and give the date on which they were lost, discarded, or destroyed.

Documents to be Produced

- 1. All Agreements between Andreessen Horowitz and the Ethereum Foundation;
- 2. All Documents and Communications with the Ethereum Foundation, including, but not limited to, Communications with board members, consultants, officers, directors, employees, developers, coders, and others performing work on behalf of these entities, Concerning:
 - a. The Merge or the Beacon Chain;
 - b. ongoing or future development of the Ethereum blockchain; or
 - c. acting as a validator for the Ethereum blockchain;
- 3. All Documents and Communications with any Secondary Trading Platforms or Crypto Venture Capital Firms including, but not limited to, Communications with board members, consultants, officers, directors, employees, developers, coders, and others performing work on behalf of these entities, Concerning:
 - a. The Merge or the Beacon Chain;
 - b. ongoing or future development of the Ethereum blockchain; or
 - c. acting as a validator for the Ethereum blockchain.

DECLARATION OF [Insert Name] CERTIFYING RECORDS OF REGULARLY CONDUCTED BUSINESS ACTIVITY

I, the undersigned, [insert name], pursuant to 28 U.S.C. § 1746, declare that:

- 1. I am employed by Andreessen Horowitz as [insert position] and by reason of my position am authorized and qualified to make this declaration. [if possible supply additional information as to how person is qualified to make declaration, e.g., I am custodian of records, I am familiar with the company's recordkeeping practices or systems, etc.]
- 2. I further certify that the documents [attached hereto or submitted herewith] and stamped [insert bates range] are true copies of records that were:
 - (a) made at or near the time of the occurrence of the matters set forth therein, by, or from information transmitted by, a person with knowledge of those matters;
 - (b) kept in the course of regularly conducted business activity; and
 - (c) made by the regularly conducted business activity as a regular practice.

I declare under penalty of perjury that the foregoing is true and correct. Executed on [date].

[Name]	



U.S. Securities and Exchange Commission

Data Delivery Standards

This document describes the technical requirements for paper and electronic document productions to the U.S. Securities and Exchange Commission (SEC). **Any questions or proposed file formats other than those described below must be discussed with the legal and technical staff of the SEC Division of Enforcement prior to submission. **

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Dε	elivery Formats	2
	I. Imaged Productions	3
	I. Imaged Productions	2
	2. Image Cross-Reference File	
	3. Data File	3
	4. Text	
	5. Linked Native Files	
	II. Native File Productions without Load Files	
	III. Adobe PDF File Productions	
	IV. Audio Files V. Video Files	
	VI. Electronic Trade and Bank Records	
	VII. Electronic Phone Records	
	VIII. Audit Workpapers	. 5
	IX. Mobile Device Data	5

General Instructions

Conoral Instructions

The current mailing address for all physical productions sent to the SEC is:

ENF-CPU (U.S. Securities & Exchange Commission), 14420 Albemarle Point Place, Suite 102, Chantilly, VA 20151-1750

Electronic files must be produced in their native format, i.e. the format in which they are ordinarily used and maintained during the normal course of business. For example, an MS Excel file must be produced as an MS Excel file rather than an image of a spreadsheet. (Note: An Adobe PDF file is not considered a native file unless the document was initially created as a PDF.)

In the event produced files require the use of proprietary software not commonly found in the workplace, the SEC will explore other format options with the producing party.

The proposed use of file de-duplication methodologies or computer-assisted review or technology-assisted review (TAR) during the processing of documents must be discussed with and approved by the legal and technical staff of the Division of Enforcement (ENF). If your production will be de-duplicated it is vital that you 1) preserve any unique metadata associated with the duplicate files, for example, custodian name and file location and, 2) make that unique metadata part of your production to the SEC.

General requirements for ALL document productions are:

- 1. A cover letter must be included with each production and should include the following information:
 - a. Case number, ease name and requesting SEC staff member name
 - b. A list of each piece of media included in the production with its unique production volume number
 - c. A list of custodians, identifying the Bates range for each custodian
 - d. A list of redacted documents and the redaction reason
 - c. The time zone in which the emails were standardized during conversion
 - f. Whether the production contains native files produced from Mac operating system environments
- 2. Data can be produced on CD, DVD, thumb drive, etc., using the media requiring the least number of deliverables and labeled with the following:
 - a. Case number
 - b. Production date
 - c. Producing party
 - d. Bates range (if applicable)
- 3. All submissions must be organized by custodian unless otherwise instructed.
- 4. All document family groups, i.e. email attachments, embedded files, etc., should be produced together and children files should follow parent files sequentially in the Bates numbering.
- 5. All load-ready collections should include only one data load file and one image pointer file.
- 6. All load-ready text must be produced as separate document-level text files.
- 7. All load-ready collections should account for custodians in the custodian field.
- All load-ready collections must provide the extracted contents of any container files to ensure all relevant files are produced as separate records.
- 9. Audio files should be separated from data files if both are included in the production.
- 10. Only alphanumeric characters and the underscore character are permitted in file names and folder names. Special characters are not permitted.
- 11. All electronic productions submitted on media must be produced using industry standard self-extracting encryption software.
- 12. The SEC uses 7zip to access compressed files. Note that the SEC **cannot** accept files that use AES-256 Jpeg or pkAES-256-Cert Deflate compression methods, even if the files are created with 7zip. If you have any questions or need additional information, please reach out to the requesting SEC staff member.
- 13. Electronic productions of 30 GB or less are strongly encouraged to be submitted via Secure File Transfer. All Secure File Transfers should be sent to the SEC Centralized Production Unit (ENF-CPU@sec.gov) with a CC to the requesting SEC staff member. If you do not have your own Secure File Transfer application, you may reach out to the requesting SEC staff member for a link to the SEC system in order to upload your production. If using the SEC Secure File Transfer system, you will NOT be able to CC individuals outside the SEC on your upload transmission. Note that the SEC cannot accept productions made using file sharing sites such as Google Drive or Microsoft Office 365.
- 14. Productions containing BSA or SAR material must be encrypted. Secure File Transfer applications may be used to produce BSA or SAR material. BSA or SAR material should be segregated and appropriately marked as BSA or SAR, or should be produced separately from other case related records.
- 15. Passwords for electronic documents, files, compressed archives and encrypted media must be provided separately either via email or in a cover letter apart from the media.
- 16. All electronic productions should be produced free of computer viruses.
- 17. Before producing forensically collected images, parties should reach out to the requesting SEC staff member in order to discuss appropriate handling.
- 18. Before producing unique data sets (large sets of relational data, website reconstruction, chat room data, etc.), parties should reach out to the requesting SEC staff member in order to discuss an appropriate production format.
- Additional technical descriptions can be found in the addendum to this document.

Please note that productions sent to the SEC via United States Postal Service are subject to Mail Irradiation, and as a result electronic productions may be damaged.

Delivery Formats

Imaged Productions

The SEC prefers that all scanned paper and electronic file collections be produced in a structured format including industry standard load files, Bates numbered image files, native files and searchable document-level text files. Bates numbers should not contain spaces. Hyphens (-) and underscores (-) are acceptable.

1. Images

- Black and white images must be 300 DPI Group IV single-page TIFF files
- b. Color images must be produced in JPEG format
- File names cannot contain embedded spaces or special characters (including the comma)
- d. Folder names cannot contain embedded spaces or special characters (including the comma)
- e. All image files must have a unique file name, i.e. Bates number
- f. Images must be endorsed with sequential Bates numbers in the lower right corner of each image
- The number of image files per folder should not exceed 2,000 files g.
- h. Excel spreadsheets should have a placeholder image named by the Bates number of the file
- AUTOCAD/photograph files should be produced as a single page JPEG file

2. Image Cross-Reference File

The image cross-reference file (LOG or .OPT) links the images to the database records. It should be a comma-delimited file consisting of seven fields per line with a line in the cross-reference file for every image in the database with the following format:

ImageID, VolumeLabel, ImageFilePath, DocumentBreak, FolderBreak, BoxBreak, PageCount

3. Data File

The data file (.DAT) contains all of the fielded information that will be loaded into the database.

- The first line of the .DAT file must be a header row identifying the field names
- The .DAT file must use the following *Concordance*® default delimiters:

Comma ¶ ASCII character (020)

Quote b ASCII character (254)

- c. If the .DAT file is produced in Unicode format it must contain the byte order marker
- d. Date fields should be provided in the format: mm/dd/yyyy
- Date and time fields must be two separate fields
- The time zone must be included in all time fields f.
- If the production includes imaged emails and attachments, the attachment fields must be included to preserve the parent/child relationship between an email and its attachments
- An OCRPATH field must be included to provide the file path and name of the extracted text file on the produced storage media. The text file must be named after the FIRSTBATES. Do not include the text in the .DAT file.
- For productions with native files, a LINK field must be included to provide the file path and name of the native file on the produced storage media. The native file must be named after the FIRSTBATES.
- BEGATTACH and ENDATTACH fields must be two separate fields
- A complete list of metadata fields is available in Addendum A to this document

4. Text

Text must be produced as separate document-level text files, not as fields within the .DAT file. The text files must be named per the FIRSTBATES/Image Key and the full path to the text file (OCRPATII) should be included in the .DAT file. Text files may be in either ANSI or Unicode format, however, ALL text files must be in the same format within the same production. Note that productions containing text with foreign characters must produce text files in Unicode format to preserve the foreign characters. Text files must be in a separate folder, and the number of text files per folder should not exceed 2,000 files. There should be no special characters (including commas) in the folder names. For redacted documents, provide the full text for the redacted version.

Linked Native Files

Copies of original email and native file documents/attachments must be included for all electronic productions.

- a. Native file documents must be named per the FIRSTBATES number
- b. The full path of the native file must be provided in the .DAT file for the LINK field
- The number of native files per folder should not exceed 2,000 files

II. Native File Production without Load Files

With prior approval, native files may be produced without load files. Native file productions should not be Bates numbered. Native files must be produced as they are maintained in the normal course of business and organized by custodian-named file folders. Native email files (.PST or .MBOX) must be separated by custodian.

III. Adobe PDF File Production

With prior approval, Adobe PDF files may be produced in native file format.

- 1. All PDFs must be unitized at the document level, i.e. each PDF must represent a discrete document.
- 2. PDF files should be produced in separate folders named by the custodian. The folders should not contain any special characters (including commas).
- 3. All PDF files must contain embedded text that includes all discernible words within the document, not selected text or image only. This requires all layers of the PDF to be flattened first.
- 4. If PDF files are Bates endorsed, the PDF files must be named by the Bates range.

IV. Audio Files

Audio files from telephone recording systems must be produced in a format that is playable using Microsoft Windows Media PlayerTM. Additionally, the call information (metadata) related to each audio recording MUST be provided. The metadata file must be produced in a delimited text format. Field names must be included in the first row of the text file. The metadata must include, at a minimum, the following fields:

1) Caller Name: Caller's name or account/identification number

2) Originating Number: Caller's phone number3) Called Party Name: Called party's name

4) Terminating Number: Called party's phone number

5) Date: Date of call
6) Time: Time of call

7) Filename: Filename of audio file

V. Video Files

Video files must be produced in a format that is playable using Microsoft Windows Media PlayerTM.

VI. Electronic Trade and Bank Records

When producing electronic trade records, bank records, or financial statements, provide the files in one of the following formats:

- 1. MS Excel spreadsheet with header information detailing the field structure. If any special codes exist in the dataset, a separate document must be provided that details all such codes. If details of the field structure do not fit in the header, a separate document must be provided that includes such details.
- 2. Delimited text file with header information detailing the field structure. The preferred delimiter is a vertical bar "|". If any special codes exist in the dataset, a separate document must be provided that details all such codes. If details of the field structure do not fit in the header, a separate document must be provided that includes such details.

VII. Electronic Phone Records

When producing an MS Excel spreadsheet for electronic phone records, provide the files in the following format:

- 1. MS Excel spreadsheet with header information detailing the field structure. If any special codes exist in the dataset, a separate document must be provided that details all such codes. If details of the field structure do not fit in the header, a separate document must be provided that includes such details. Data must be formatted in its native format (i.e. dates in a date format, numbers in an appropriate numerical format, and numbers with leading zeroes as text).
 - a. The metadata that must be included is outlined in **Addendum B** of this document. Each field of data must be loaded into a separate column. For example, Date and Start_Time must be produced in separate columns and not combined into a single column containing both pieces of information. Any fields of data that are provided in addition to those listed in **Addendum B** must also be loaded into separate columns.

Case 1:24-cv-01858-ACR Document 26-1 Filed 02/04/25 Page 495 of 933 Data Delivery Standards

VIII. Audit Workpapers

The SEC prefers for workpapers to be produced in two formats: (1) With Bates numbers in accordance with the SEC Data Delivery Standards; and (2) in native format via laptop computer, web-based viewing platform, or otherwise, allowing for viewing in the same format and organization as the firm's audit team. Prior to production of workpapers via laptop computer or web-based viewing platform, audit firms should contact the requesting SEC staff member for additional information and written agreements addressing use of software, access, and viewing protocols.

IX. Mobile Device Data

Before producing any mobile device data (including but not limited to text messages and application data) parties should reach out to the requesting SEC staff member in order to discuss the appropriate production format. Productions containing chat data from applications must be identified at the time of production and the following information must be provided to the requesting SEC staff member and the SEC Centralized Production Unit: chat application, chat data format, and how the length of a chat is determined (i.e. set duration of time, number of minutes without messages, etc.)

ADDENDUM A

The metadata of electronic document collections should be extracted and provided in a .DAT file using the field definition and formatting described below:

Field Name	Sample Data	Description
FIRSTBATES	EDC0000001	First Bates number of native file document/email
LASTBATES	EDC0000001	Last Bates number of native file document/email
		**The LASTBATES field should be populated
		for single page documents/emails.
ATTACHRANGE	EDC0000001 - EDC0000015	Bates number of the first page of the parent
		document to the Bates number of the last page of the
		last attachment "child" document
BEGATTACH	EDC0000001	First Bates number of attachment range
ENDATTACH	EDC0000015	Last Bates number of attachment range
PARENT_BATES	EDC0000001	First Bates number of parent document/Email **This PARENT_BATES field should be populated in each record representing an attachment "child" document
CHILD BATES	EDC0000002; EDC0000014	First Bates number of "child" attachment(s); can be
_		more than one Bates number listed depending on the
		number of attachments
		**The CHILD_BATES field should be populated in
		each record representing a "parent" document
CUSTODIAN	Smith, John	Email: Mailbox where the email resided
		Native: Name of the individual or department from
		whose files the document originated
FROM	John Smith	Email: Sender
		Native: Author(s) of document
		**semi-colon should be used to separate multiple entries
TO	Coffman, Janice; LeeW	Recipient(s)
	[mailto:LecW@MSN.com]	**semi-colon should be used to separate multiple entries
CC	Frank Thompson [mailto:	Carbon copy recipient(s)
	frank_Thompson@cdt.com]	**semi-colon should be used to separate multiple
	Trank_Thompson@edi.eom	entries
BCC	John Cain	Blind carbon copy recipient(s)
		**semi-colon should be used to separate multiple
		entries
SUBJECT	Board Meeting Minutes	Email: Subject line of the email
		Native: Title of document (if available)
FILE_NAME	BoardMeetingMinutes.docx	Native: Name of the original native file, including
		extension
DATE_SENT	10/12/2010	Email: Date the email was sent
		Native: (empty)
TIME_SENT/TIME	07:05 PM GMT	Email: Time the email was sent/ Time zone in which
_ZONE		the emails were standardized during conversion.
		Native: (empty)
		**This data must be a separate field and cannot be
TIME ZONE	CMT	combined with the DATE_SENT field
TIME_ZONE	GMT	The time zone in which the emails were standardized
		during conversion. Email: Time zone
		Native: (empty)
		racivos (empsy)

LINK	D:\001\EDC0000001.msg	Hyperlink to the email or native file document **The linked file must be named per the FIRSTBATES number			
MIME_TYPE	application/msword	The content type of an email or native file document as identified/extracted from the header			
FILE_EXTEN	MSG	The file type extension representing the email or native file document; will vary depending on the format			
AUTHOR	John Smith	Email: (cmpty) Native: Author of the document			
LAST_AUTHOR	Jane Doe	Email: (empty) Native: Last Author of the document			
DATE_CREATED	10/10/2010	Email: (empty) Native: Date the document was created			
TIME_CREATED/T IME_ZONE	10:25 AM GMT	Email: (empty) Native: Time the document was created including time zone **This data must be a separate field and cannot be combined with the DATE_CREATED field			
DATE_MOD	10/12/2010	Email: (empty) Native: Date the document was last modified			
TIME_MOD/TIME_ ZONE	07:00 PM GMT	Email: (empty) Native: Time the document was last modified including the time zone **This data must be a separate field and cannot be combined with the DATE_MOD field			
DATE_ACCESSD	10/12/2010	Email: (empty) Native: Date the document was last accessed			
TIME_ACCESSD/T IME_ZONE	07:00 PM GMT	Email: (empty) Native: Time the document was last accessed including the time zone **This data must be a separate field and cannot be combined with the DATE_ACCESSD field			
PRINTED_DATE	10/12/2010	Email: (empty) Native: Date the document was last printed			
FILE_SIZE	5,952	Size of native file document/email in KB			
PGCOUNT	1	Number of pages in native file document/email			
PATH	J:\Shared\SmithJ\October Agenda.doc	Email: (empty) Native: Path where native file document was stored including original file name.			
INTFILEPATH	Personal Folders\Deleted Items\Board Meeting Minutes.msg	Email: original location of email including original file name. Native: (empty)			
INTMSGID	<000805c2c71bS75977050Scb 8306d1@MSN>	Email: Unique Message ID Native: (empty)			

Case 1:24-cv-01858-ACR Document 26-1 Filed 02/04/25 Page 498 of 933 Data Delivery Standards

HEADER	Return-Path: <example_from@dc.edu> X-SpamCatcher-Score:1[X] Received:from[136.167.40.119] (HELO dc.edu) by fe3.dc.edu (CommuniGate Pro SMTP4.1.8) with ESMTP-TLS id 61258719 for example_to@mail.dc.edu; Mon, 23 Aug 2004 11:40:10 - 0400 Message-ID: <<4129F3CA.2020509@dc.edu> Date: Mon, 23 Aug 2005 11:40:36 -400 From: Taylor Evans <example_from@dc.edu> User-Agent:Mozilla/5.0 (Windows;U; Windows NT 5.1: en-US;rv:1.0.1) Gecko/20020823 Netscape/7.0 X-Accept-Language:en-us,en MIME-Version:1.0 To: Jon Smith <example_to@mail.dc.edu> Subject:Business Development Meeting Content-Type: text/plain;charset=us-ascii; format=flowed Content-Transfer-Encoding:7bit</example_to@mail.dc.edu></example_from@dc.edu></example_from@dc.edu>	
SHA256	AD6128C5CA40164AF71A1E FC800E12D2F195CE07BB5F8 C813B0888A2DDE6A06F	SHA-256 hash value of the document.
OCRPATH	TEXT/001/EDC0000001.txt	Path to extracted text of the native file

Sample Image Cross-Reference File:

IMG000001,,E:\001\IMG0000001.TIF,Y,,,
IMG0000002,,E:\001\IMG0000002.TIF,,,,
IMG0000003,,E:\001\IMG0000004.TIF,Y,,,
IMG0000004,,E:\001\IMG0000005.TIF,Y,,,
IMG0000005,,E:\001\IMG0000005.TIF,Y,,,
IMG0000006,,E:\001\IMG0000006.TIF,,

ADDENDUM B

For Electronic Phone Records, include the following fields in separate columns:

For Calls:

- 1) Account Number
- 2) Connection Date Date the call was received or made
- 3) Connection Time Time call was received or made
- 4) Seizure Time Time it took for the call to be placed in seconds
- 5) Originating Number Phone that placed the call
- 6) Terminating Number Phone that received the call
- 7) Elapsed Time The length of time the call lasted, preferably in seconds
- 8) End Time The time the call ended
- 9) Number Dialed Actual number dialed
- 10) IMEI Originating Unique id to phone used to make call
- 11) IMEI Terminating-Unique id to phone used to receive call
- 12) IMSI Originating Unique id to phone used to make call
- 13) IMSI Terminating- Unique id to phone used to receive call
- 14) Call Codes Identify call direction or other routing information
- 15) Time Zone Time Zone in which the call was received or placed, if applicable

For Text messages:

- 1) Account Number
- 2) Connection Date Date the text was received or made
- 3) Connection Time Time text was received or made
- 4) Originating Number Who placed the text
- 5) Terminating Number Who received the text
- 6) IMEI Originating Unique id to phone used to make text
- 7) IMEI Terminating—Unique id to phone used to receive text
- 8) IMSI Originating Unique id to phone used to make text
- 9) IMSI Terminating- Unique id to phone used to receive text
- 10) Text Code Identify text direction, or other text routing information
- 11) Text Type Code Type of text message (sent SMS, MMS, or other)
- 12) Time Zone Time Zone in which the call was received or placed, if applicable

For Mobile Data Usage:

- 1) Account Number
- Connection Date Date the data was received or made
- 3) Connection Time Time data was received or made
- 4) Originating number Number that used data
- 5) IMEI Originating Unique id of phone that used data
- 6) IMSI Originating Unique id of phone that used data
- 7) Data or Data codes Identify data direction, or other data routing information
- 8) Time Zone Time Zone in which the call was received or placed, if applicable

SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549

Supplemental Information for Persons Requested to Supply Information Voluntarily or Directed to Supply Information Pursuant to a Commission Subpoena

A. False Statements and Documents

Section 1001 of Title 18 of the United States Code provides that fines and terms of imprisonment may be imposed upon:

[W]hoever, in any matter within the jurisdiction of the executive, legislative, or judicial branch of the Government of the United States, knowingly and willfully--

- (1) falsifies, conceals, or covers up by any trick, scheme, or device a material fact;
- (2) makes any materially false, fictitious, or fraudulent statement or representation; or
- (3) makes or uses any false writing or document knowing the same to contain any materially false, fictitious, or fraudulent statement or entry.

Section 1519 of Title 18 of the United States Code provides that fines and terms of imprisonment may be imposed upon:

Whoever knowingly alters, destroys, mutilates, conceals, covers up, falsifies, or makes a false entry in any record, document, or tangible object with the intent to impede, obstruct, or influence the investigation or proper administration of any matter within the jurisdiction of any department or agency of the United States . . ., or in relation to or contemplation of any such matter.

B. Testimony

If your testimony is taken, you should be aware of the following:

- 1. Record. Your testimony will be transcribed by a reporter. If you desire to go off the record, please indicate this to the Commission employee taking your testimony, who will determine whether to grant your request. The reporter will not go off the record at your, or your counsel's, direction.
- 2. Counsel. You have the right to be accompanied, represented and advised by counsel of your choice. Your counsel may advise you before, during and after your testimony; question you briefly at the conclusion of your testimony to clarify any of the answers you give during testimony; and make summary notes during your testimony solely for your use. If you are accompanied by counsel, you may consult privately.

If you are not accompanied by counsel, please advise the Commission employee taking your testimony if, during the testimony, you desire to be accompanied, represented and advised by counsel. Your testimony will be adjourned once to afford you the opportunity to arrange to be so accompanied, represented or advised.

You may be represented by counsel who also represents other persons involved in the Commission's investigation. This multiple representation, however, presents a potential conflict of interest if one client's interests are or may be adverse to another's. If you are represented by counsel who also represents other persons involved in the investigation, the Commission will assume that you and counsel have discussed and resolved all issues concerning possible conflicts of interest. The choice of counsel, and the responsibility for that choice, is yours.

3. Transcript Availability. Rule 6 of the Commission's Rules Relating to Investigations, 17 CFR 203.6, states:

A person who has submitted documentary evidence or testimony in a formal investigative proceeding shall be entitled, upon written request, to procure a copy of his documentary evidence or a transcript of his testimony on payment of the appropriate fees: *Provided, however*, That in a nonpublic formal investigative proceeding the Commission may for good cause deny such request. In any event, any witness, upon proper identification, shall have the right to inspect the official transcript of the witness' own testimony.

If you wish to purchase a copy of the transcript of your testimony, the reporter will provide you with a copy of the appropriate form. Persons requested to supply information voluntarily will be allowed the rights provided by this rule.

4. *Perjury.* Section 1621 of Title 18 of the United States Code provides that fines and terms of imprisonment may be imposed upon:

Whoever--

(1) having taken an oath before a competent tribunal, officer, or person, in any case in which a law of the United States authorizes an oath to be administered, that he will testify, declare,

depose, or certify truly, or that any written testimony, declaration, deposition, or certificate by him subscribed, is true, willfully and contrary to such oath states or subscribes any material matter which he does not believe to be true; or

- (2) in any declaration, certificate, verification, or statement under penalty of perjury as permitted under section 1746 of title 28, United States Code, willfully subscribes as true any material matter which he does not believe to be true.
- 5. Fifth Amendment and Voluntary Testimony. Information you give may be used against you in any federal, state, local or foreign administrative, civil or criminal proceeding brought by the Commission or any other agency.

You may refuse, in accordance with the rights guaranteed to you by the Fifth Amendment to the Constitution of the United States, to give any information that may tend to incriminate you.

If your testimony is not pursuant to subpoena, your appearance to testify is voluntary, you need not answer any question, and you may leave whenever you wish. Your cooperation is, however, appreciated.

6. Formal Order Availability. If the Commission has issued a formal order of investigation, it will be shown to you during your testimony, at your request. If you desire a copy of the formal order, please make your request in writing.

C. Submissions and Settlements

Rule 5(c) of the Commission's Rules on Informal and Other Procedures, 17 CFR 202,5(c), states:

Persons who become involved in . . . investigations may, on their own initiative, submit a written statement to the Commission setting forth their interests and position in regard to the subject matter of the investigation. Upon request, the staff, in its discretion, may advise such persons of the general nature of the investigation, including the indicated violations as they pertain to them, and the amount of time that may be available for preparing and submitting a statement prior to the presentation of a staff recommendation to the Commission for the commencement of an administrative or injunction proceeding. Submissions by interested persons should be forwarded to the appropriate Division Director or Regional Director with a copy to the staff members conducting the investigation and should be clearly referenced to the specific investigation to which they relate. In the event a recommendation for the commencement of an enforcement proceeding is presented by the staff, any submissions by interested persons will be forwarded to the Commission in conjunction with the staff memorandum.

The staff of the Commission routinely seeks to introduce submissions made pursuant to Rule 5(c) as evidence in Commission enforcement proceedings, when the staff deems appropriate.

Rule 5(f) of the Commission's Rules on Informal and Other Procedures, 17 CFR 202.5(f), states:

In the course of the Commission's investigations, civil lawsuits, and administrative proceedings, the staff, with appropriate authorization, may discuss with persons involved the disposition of such matters by consent, by settlement, or in some other manner. It is the policy of the Commission, however, that the disposition of any such matter may not, expressly or impliedly, extend to any criminal charges that have been, or may be, brought against any such person or any recommendation with respect thereto. Accordingly, any person involved in an enforcement matter before the Commission who consents, or agrees to consent, to any judgment or order does so solely for the purpose of resolving the claims against him in that investigative, civil, or administrative matter and not for the purpose of resolving any criminal charges that have been, or might be, brought against him. This policy reflects the fact that neither the Commission nor its staff has the authority or responsibility for instituting, conducting, settling, or otherwise disposing of criminal proceedings. That authority and responsibility are vested in the Attorney General and representatives of the Department of Justice.

D. Freedom of Information Act

The Freedom of Information Act, 5 U.S.C. 552 (the "FOIA"), generally provides for disclosure of information to the public. Rule 83 of the Commission's Rules on Information and Requests, 17 CFR 200.83, provides a procedure by which a person can make a written request that information submitted to the Commission not be disclosed under the FOIA. That rule states that no determination as to the validity of such a request will be made until a request for disclosure of the information under the FOIA is received. Accordingly, no response to a request that information not be disclosed under the FOIA is necessary or will be given until a request for disclosure under the FOIA is received. If you desire an acknowledgment of receipt of your written request that information not be disclosed under the FOIA, please provide a duplicate request, together with a stamped, self-addressed envelope.

E. Authority for Solicitation of Information

Persons Directed to Supply Information Pursuant to Subpoena. The authority for requiring production of information is set forth in the subpoena. Disclosure of the information to the Commission is mandatory, subject to the valid assertion of any legal right or privilege you might have.

Persons Requested to Supply Information Voluntarily. One or more of the following provisions authorizes the Commission to solicit the information requested: Sections 19 and/or 20 of the Securities Act of 1933; Section 21 of the Securities Exchange Act of 1934; Section 321 of the Trust Indenture Act of 1939; Section 42 of the Investment Company Act of 1940; Section 209 of the Investment Advisers Act of 1940; and 17 CFR 202.5. Disclosure of the requested information to the Commission is voluntary on your part.

F. Effect of Not Supplying Information

Persons Directed to Supply Information Pursuant to Subpoena. If you fail to comply with the subpoena, the Commission may seek a court order requiring you to do so. If such an order is obtained and you thereafter fail to supply the information, you may be subject to civil and/or criminal sanctions for contempt of court. In addition, Section 21(c) of the Securities Exchange Act of 1934, Section 42(c) of the Investment Company Act of 1940, and Section 209(c) of the Investment Advisers Act of 1940 provide that fines and terms of imprisonment may be imposed upon any person who shall, without just cause, fail or refuse to attend and testify or to answer any lawful inquiry, or to produce books, papers, correspondence, memoranda, and other records in compliance with the subpoena.

Persons Requested to Supply Information Voluntarily. There are no direct sanctions and thus no direct effects for failing to provide all or any part of the requested information.

G. Principal Uses of Information

The Commission's principal purpose in soliciting the information is to gather facts in order to determine whether any person has violated, is violating, or is about to violate any provision of the federal securities laws or rules for which the Commission has enforcement authority, such as rules of securities exchanges and the rules of the Municipal Securities Rulemaking Board. Facts developed may, however, constitute violations of other laws or rules. Information provided may be used in Commission and other agency enforcement proceedings. Unless the Commission or its staff explicitly agrees to the contrary in writing, you should not assume that the Commission or its staff acquiesces in, accedes to, or concurs or agrees with, any position, condition, request, reservation of right, understanding, or any other statement that purports, or may be deemed, to be or to reflect a limitation upon the Commission's receipt, use, disposition, transfer, or retention, in accordance with applicable law, of information provided.

H. Routine Uses of Information

The Commission often makes its files available to other governmental agencies, particularly United States Attorneys and state prosecutors. There is a likelihood that information supplied by you will be made available to such agencies where appropriate. Whether or not the Commission makes its files available to other governmental agencies is, in general, a confidential matter between the Commission and such other governmental agencies.

Set forth below is a list of the routine uses which may be made of the information furnished.

- 1. To appropriate agencies, entities, and persons when (1) the SEC suspects or has confirmed that there has been a breach of the system of records, (2) the SEC has determined that as a result of the suspected or confirmed breach there is a risk of harm to individuals, the SEC (including its information systems, programs, and operations), the Federal Government, or national security; and (3) the disclosure made to such agencies, entities, and persons is reasonably necessary to assist in connection with the SEC's efforts to respond to the suspected or confirmed breach or to prevent, minimize, or remedy such harm.
- 2. To other Federal, state, local, or foreign law enforcement agencies; securities self-regulatory organizations; and foreign financial regulatory authorities to assist in or coordinate regulatory or law enforcement activities with the SEC.
- 3. To national securities exchanges and national securities associations that are registered with the SEC, the Municipal Securities Rulemaking Board; the Securities Investor Protection Corporation; the Public Company Accounting Oversight Board; the Federal banking authorities, including, but not limited to, the Board of Governors of the Federal Reserve System, the Comptroller of the Currency, and the Federal Deposit Insurance Corporation; state securities regulatory agencies or organizations; or regulatory authorities of a foreign government in connection with their regulatory or enforcement responsibilities.
- 4. By SEC personnel for purposes of investigating possible violations of, or to conduct investigations authorized by, the Federal securities laws.
- 5. In any proceeding where the Federal securities laws are in issue or in which the Commission, or past or present members of its staff, is a party or otherwise involved in an official capacity.
- 6. In connection with proceedings by the Commission pursuant to Rule 102(e) of its Rules of Practice, 17 CFR 201.102(e).

- 7. To a bar association, state accountancy board, or other Federal, state, local, or foreign licensing or oversight authority; or professional association or self-regulatory authority to the extent that it performs similar functions (including the Public Company Accounting Oversight Board) for investigations or possible disciplinary action.
- 8. To a Federal, state, local, tribal, foreign, or international agency, if necessary to obtain information relevant to the SEC's decision concerning the hiring or retention of an employee; the issuance of a security clearance; the letting of a contract; or the issuance of a license, grant, or other benefit.
- 9. To a Federal, state, local, tribal, foreign, or international agency in response to its request for information concerning the hiring or retention of an employee; the issuance of a security clearance; the reporting of an investigation of an employee; the letting of a contract; or the issuance of a license, grant, or other benefit by the requesting agency, to the extent that the information is relevant and necessary to the requesting agency's decision on the matter.
- 10. To produce summary descriptive statistics and analytical studies, as a data source for management information, in support of the function for which the records are collected and maintained or for related personnel management functions or manpower studies; may also be used to respond to general requests for statistical information (without personal identification of individuals) under the Freedom of Information Act.
- 11. To any trustee, receiver, master, special counsel, or other individual or entity that is appointed by a court of competent jurisdiction, or as a result of an agreement between the parties in connection with litigation or administrative proceedings involving allegations of violations of the Federal securities laws (as defined in section 3(a)(47) of the Securities Exchange Act of 1934, 15 U.S.C. 78c(a)(47)) or pursuant to the Commission's Rules of Practice, 17 CFR 201.100 through 900 or the Commission's Rules of Fair Fund and Disgorgement Plans, 17 CFR 201.1100 through 1106, or otherwise, where such trustee, receiver, master, special counsel, or other individual or entity is specifically designated to perform particular functions with respect to, or as a result of, the pending action or proceeding or in connection with the administration and enforcement by the Commission of the Federal securities laws or the Commission's Rules of Practice or the Rules of Fair Fund and Disgorgement Plans.
- 12. To any persons during the course of any inquiry, examination, or investigation conducted by the SEC's staff, or in connection with civil litigation, if the staff has reason to believe that the person to whom the record is disclosed may have further information about the matters related therein, and those matters appeared to be relevant at the time to the subject matter of the inquiry.
- 13. To interns, grantees, experts, contractors, and others who have been engaged by the Commission to assist in the performance of a service related to this system of records and who need access to the records for the purpose of assisting the Commission in the efficient administration of its programs, including by performing clerical, stenographic, or data analysis functions, or by reproduction of records by electronic or other means. Recipients of these records shall be required to comply with the requirements of the Privacy Act of 1974, as amended, 5 U.S.C.
- 14. In reports published by the Commission pursuant to authority granted in the Federal securities laws (as such term is defined in section 3(a)(47) of the Securities Exchange Act of 1934, 15 U.S.C. 78c(a)(47)), which authority shall include, but not be limited to, section 21(a) of the Securities Exchange Act of 1934, 15 U.S.C. 78u(a)).
- 15. To members of advisory committees that are created by the Commission or by Congress to render advice and recommendations to the Commission or to Congress, to be used solely in connection with their official designated functions.
- 16. To any person who is or has agreed to be subject to the Commission's Rules of Conduct, 17 CFR 200.735-1 through 200.735-18, and who assists in the investigation by the Commission of possible violations of the Federal securities laws (as such term is defined in section 3(a)(47) of the Securities Exchange Act of 1934, 15 U.S.C. 78c(a)(47)), in the preparation or conduct of enforcement actions brought by the Commission for such violations, or otherwise in connection with the Commission's enforcement or regulatory functions under the Federal securities laws.
- 17. To a Congressional office from the record of an individual in response to an inquiry from the Congressional office made at the request of that individual.
- 18. To members of Congress, the press, and the public in response to inquiries relating to particular Registrants and their activities, and other matters under the Commission's jurisdiction.
- 19. To prepare and publish information relating to violations of the Federal securities laws as provided in 15 U.S.C. 78c(a)(47)), as amended.
- 20. To respond to subpoenas in any litigation or other proceeding.
- 21. To a trustee in bankruptcy.
- 22. To any governmental agency, governmental or private collection agent, consumer reporting agency or commercial reporting agency, governmental or private employer of a debtor, or any other person, for collection,

including collection by administrative offset, Federal salary offset, tax refund offset, or administrative wage garnishment, of amounts owed as a result of Commission civil or administrative proceedings.

23. To another Federal agency or Federal entity, when the SEC determines that information from this system of records is reasonably necessary to assist the recipient agency or entity in (1) responding to a suspected or confirmed breach or (2) preventing, minimizing, or remedying the risk of harm to individuals, the recipient agency or entity (including its information systems, programs, and operations), the Federal Government, or national security, resulting from a suspected or confirmed breach.

* * * * *

Small Business Owners: The SEC always welcomes comments on how it can better assist small businesses. If you would like more information, or have questions or comments about federal securities regulations as they affect small businesses, please contact the Office of Small Business Policy, in the SEC's Division of Corporation Finance, at 202-551-3460. If you would prefer to comment to someone outside of the SEC, you can contact the Small Business Regulatory Enforcement Ombudsman at http://www.sba.gov/ombudsman or toll free at 888-REG-FAIR. The Ombudsman's office receives comments from small businesses and annually evaluates federal agency enforcement activities for their responsiveness to the special needs of small business.



UNITED STATES SECURITIES AND EXCHANGE COMMISSION

100 PEARL STREET, SUITE 20-100 NEW YORK, NY 10004-2616

DIVISION OF ENFORCEMENT

March 14, 2024

VIA SECURE EMAIL (lawenforcement@kraken.com)

Payward, Inc. (d/b/a Kraken) Legal Department 237 Kearny Street, #102 San Francisco, CA 94108

Re: C-08950

To Whom It May Concern:

The enclosed subpoena has been issued pursuant to a formal order entered by the United States Securities and Exchange Commission. Pursuant to Rule 8 of the United States Securities and Exchange Commission's Rules Relating to Investigations, 17 C.F.R. § 203.8, I have enclosed a subpoena for documents issued to Payward, Inc. (d/b/a Kraken) ("Kraken"), in connection with the above-referenced investigation.

This is a federal civil law enforcement investigation and you must produce all documents described in the attached subpoena. The enclosed subpoena requires Kraken to produce documents to the SEC by March 28, 2024 to:

ENF-CPU U.S. Securities and Exchange Commission 14420 Albemarle Point Place, Suite 102 Chantilly, VA 20151-1750

For smaller electronic productions under 10MB in size, the materials may be emailed to the following email address: ENF-CPU@scc.gov.

	e copy of any document production cover letters to me at
(b)(6); (b)(7)(C) (c)(sec.gov, (b)(6); (b)(7)(C)	at(b)(6); (b)(7)(C) vsec.gov, (b)(6); (b)(7)(C) at
(b)(6); (b)(7)(C) vsec.gov, and (b)(6); (b)(7)(C)	at (b)(6); Uscc.gov. Additionally, please include the
SEC matter number and the name of the	he requesting attorney when responding.

Please carefully read the subpoena attachment, which contains, among other things, important instructions related to the manner of producing documents. In particular, if Kraken prefers to send us copies of original documents, the staff requests that you scan and produce hard copy documents, as well as electronic documents, in an electronic format consistent with the SEC Data Delivery Standards attached hereto. All electronic documents responsive to the subpoena, including all metadata, should also be produced in their native software format. If you have any questions concerning the production of documents in an electronic format, please contact me as soon as possible and in any event before producing documents. For security reasons, we strongly encourage the encryption of sensitive documents before production.

When producing the records, please consecutively number and mark each document produced with a symbol that identifies it as being produced by Kraken and provide an index which briefly identifies the documents produced.

In your cover letter(s) accompanying the production of responsive documents, please enclose a list briefly describing each item you send. The list should identify the paragraph(s) in the subpoena attachment to which each item responds. Please also state in the cover letter(s) whether you believe Kraken has met the obligations of the subpoena by searching carefully and thoroughly for everything called for by the subpoena and sending it all to us.

A copy of the subpoena should be included with the documents that are produced. Correspondence should reference case number and requesting SEC staff member.

Passwords for documents, files, compressed archives, and encrypted media should be provided separately either via email addressed to ENF-CPU@sec.gov, or in a separate cover letter mailed separately from the data. Password correspondence should reference case number and requesting SEC staff member.

In addition, for any documents that qualify as records of regularly conducted activities under Federal Rule of Evidence 902(11), please have the appropriate representative(s) of Kraken complete a business records certification (a sample of which is enclosed) and return it with the document production. Execution of this certification may allow the Commission to introduce the documents provided by Kraken in any subsequent judicial proceeding, without requiring the testimony of a records custodian.

Enclosed is a copy of the Commission's Form 1662, entitled "Supplemental Information for Persons Requested to Supply Information Voluntarily or Directed to Supply Information Pursuant to a Commission Subpoena." This form explains how we may use the information which Kraken provides to the Commission and has other important information. Please provide a copy of this form to Kraken.

This investigation is a non-public, fact-finding inquiry. We are trying to determine whether there have been any violations of the federal securities laws. The investigation does not mean that we have concluded that anyone has violated the law. Also, the investigation does not mean that we have a negative opinion of any person, entity, or security.

If you have any questions or would like to discuss this matter, you may contact me at (b)(6); (b)(7)(C)

_

Enclosures: Subpoena and Attachment

Business Records Certification SEC Data Delivery Standards

SEC Form 1662



SUBPOENA

UNITED STATES OF AMERICA SECURITIES AND EXCHANGE COMMISSION

C-08950

To: Legal Department

Payward, Inc. (d/b/a Kraken) 237 Kearny Street, #102 San Francisco, CA 94108

YOU MUST PRODUCE everything specified in the Attachment to this subpoena to officers of the Securities and Exchange Commission, at the place, date and time specified below:

ENF-CPU, U.S. Securities and Exchange Commission, 14420 Albemarle Point Place, Suite 102 Chantilly, VA 20151-1750, no later than March 28, 2024.

☐ YOU MUST TESTIFY before officers of the Securities and Exchange Commission, at the place, date and time specified below:

FEDERAL LAW REQUIRES YOU TO COMPLY WITH THIS SUBPOENA.

If you do not comply with this subpoena, the SEC may bring an action in Federal Court to enforce this subpoena. Failure to comply with a court order enforcing this subpoena may result in the court imposing a fine, imprisonment, or both.

By: (b)(6); (b)(7)(C) Date: March 14, 2024

U.S. Securities and Exchange Commission New York Regional Office 100 Pearl Street, Suite 20-100 New York, NY 10004-2616

I am an officer of the U.S. Securities and Exchange Commission authorized to issue subpoenas in this matter. The Securities and Exchange Commission has issued a formal order authorizing this investigation under Section 20(a) of the Securities Act of 1933.

NOTICE TO WITNESS: If you claim a witness fee or mileage, submit this subpoena with the claim voucher.

SUBPOENA ATTACHMENT FOR PAYWARD, INC (D/B/A KRAKEN). $\underline{\text{C-08950}}$

March 14, 2024

Definitions

As used in this subpoena, the words and phrases listed below shall have the following meanings:

- 1. "Relevant Period" means July 1, 2018 to the present.
- 2. "Kraken" means the entity doing business under the name "Payward, Inc. (d/b/a Kraken)," including parents, subsidiaries, affiliates, predecessors, successors, officers, directors, employees, agents, general partners, limited partners, partnerships and aliases, code names, or trade or business names used by any of the foregoing.
- 3. The "Ethereum Foundation" means the entity or business doing business under the name "Ethereum Foundation," including, but not limited to, ethereum.org and parents, subsidiaries, affiliates, predecessors, successors, officers, directors, employees, agents, general partners, limited partners, partnerships and aliases, owners, code names, or trade or business names used by any of the foregoing.
- 4. "The Merge" or "Ethereum 2.0" means the transition by the Ethereum blockchain of its consensus mechanism from proof-of-work to proof-of-stake.
- 5. "Beacon Chain" means the original proof-of-stake blockchain that was launched in 2020 that ran alongside the original proof-of-work Ethereum blockchain.
- 6. "Secondary Trading Platforms" means any exchange, website, organization, entity, business, or protocol that allow Persons to buy or sell digital assets.
- 7. "Crypto Venture Capital Firms" means any Person or entity that provides financing or other support to startup or early-stage crypto asset projects.
- 8. The term "you" and "your" means the Person to whom or entity to which this subpoena was issued.
- 9. "Document" shall include, but is not limited to, any written, printed, or typed matter including, but not limited to all drafts and copies bearing notations or marks not found in the original, letters and correspondence, interoffice communications, slips, tickets, records, worksheets, financial records, accounting documents, bookkeeping documents, memoranda, reports, manuals, telephone logs, facsimiles, messages of any type, telephone messages, text messages, voice mails, tape recordings, notices, instructions, minutes, summaries, notes of meetings, file folder markings, and any other organizational indicia, purchase orders, information recorded by photographic process, including microfilm and microfiche, computer printouts, spreadsheets, and other electronically

stored information, including writings, drawings, graphs, charts, photographs, sound recordings, images, and other data or data compilations that are stored in any medium from which information can be retrieved, obtained, manipulated, or translated.

- 10. "Communication" means any correspondence, contact, discussion, e-mail, instant message, or any other kind of oral or written exchange or transmission of information (in the form of facts, ideas, inquiries, or otherwise), including but not limited to those made on Social Media Services, and any response thereto between two or more Persons or entities, including, without limitation, all telephone conversations, face-to-face meetings or conversations, internal or external discussions, or exchanges of a Document or Documents.
- 11. "Concerning" means directly or indirectly, in whole or in part, describing, constituting, evidencing, recording, evaluating, substantiating, concerning, referring to, alluding to, in connection with, commenting on, relating to, regarding, discussing, showing, analyzing or reflecting.
- 12. "Agreement" means any actual or contemplated (i) written or oral Agreement; (ii) term or provision of such Agreement; or (iii) amendment of any nature or termination of such Agreement. A request for any Agreement among or between specified parties includes a request for all Documents Concerning (i) any actual or contemplated Agreement among or between such parties, whether or not such Agreement included any other Person; (ii) the drafting or negotiation of any such Agreement; (iii) any actual or contemplated demand, request or application for any such Agreement, and any response thereto; and (iv) any actual or contemplated objection or refusal to enter into any such Agreement, and any response thereto.
- 13. "Person" means a natural person, firm, association, organization, partnership, business, trust, corporation, bank or any other private or public entity.
- 14. To the extent necessary to bring within the scope of this this subpoena any information or Documents that might otherwise be construed to be outside its scope:
 - a. the word "or" means "and/or";
 - b. the word "and" means "and/or";
 - c. the functional words "each," "every" "any" and "all" shall each be deemed to include each of the other functional words:
 - d. the masculine gender includes the female gender and the female gender includes the masculine gender; and
 - e. the singular includes the plural and the plural includes the singular.

Instructions

1. Unless otherwise specified, this subpoena calls for production of the original Documents and all copies and drafts of same. Documents responsive to this subpoena may be in

- 2. For Documents in paper format, you may send the originals, or, if you prefer, you may send copies of the originals. The Commission cannot reimburse you for the copying costs. If you are sending copies, the staff requests that you scan (rather than photocopy) hard copy Documents and produce them in an electronic format consistent with the SEC Data Delivery Standards. Alternatively, you may send us photocopies of the Documents in paper format. If you choose to send copies, you <u>must</u> secure and retain the originals and store them in a safe place. The staff may later request or require that you produce the originals.
- 3. Whether you scan or photocopy Documents, the copies must be identical to the originals, including even faint marks or print. Also, please note that if copies of a Document differ in any way, they are considered separate Documents and you must send each one. For example, if you have two copies of the same letter, but only one of them has handwritten notes on it, you must send both the clean copy and the one with notes.
- 4. In producing a photocopy of an original Document that contains post-it(s), notation flag(s), or other removable markings or attachments which may conceal all or a portion of the markings contained in the original Document, photocopies of the original Document both with and without the relevant post-it(s), notation flag(s), or removable markings or attachments should be produced.
- 5. Documents should be produced as they are kept in the ordinary course of business or be organized and labeled to correspond with the categories in this request. In that regard, Documents should be produced in a unitized manner, i.e., delineated with staples or paper clips to identify the Document boundaries.
- 6. Documents should be labeled with sequential numbering (bates-stamped).
- 7. The scope of any given request should not be limited or narrowed on the basis that it calls for Documents that are responsive to another request.
- 8. This subpoena covers all Documents in or subject to your possession, custody or control, including all Documents that are not in your immediate possession but that you have the effective ability to obtain, that are responsive, in whole or in part, to any of the individual requests set forth below. If, for any reason including a claim of attorney-client privilege you do not produce something called for by the request, you should submit a list of what you are not producing. The list should describe each item separately, noting:
 - a. its author(s);
 - b. its date:
 - c. its subject matter;

- d. the name of the Person who has the item now, or the last Person known to have it;
- e. the names of everyone who ever had the item or a copy of it, and the names of everyone who was told the item's contents;
- f. the basis upon which you are not producing the responsive Document;
- g. the specific request in the subpoena to which the Document relates;
- h. the attorney(s) and the client(s) involved; and
- i. in the case of the work product doctrine, the litigation for which the Document was prepared in anticipation.
- 9. If Documents responsive to this subpoena no longer exist because they have been lost, discarded, or otherwise destroyed, you should identify such Documents and give the date on which they were lost, discarded, or destroyed.

Documents to be Produced

- 1. All Agreements between Kraken and the Ethereum Foundation;
- 2. All Documents and Communications with the Ethereum Foundation, including, but not limited to, Communications with board members, consultants, officers, directors, employees, developers, coders, and others performing work on behalf of these entities, Concerning:
 - a. The Merge or the Beacon Chain;
 - b. ongoing or future development of the Ethereum blockchain; or
 - c. acting as a validator for the Ethereum blockchain;
- 3. All Documents and Communications with any Secondary Trading Platforms or Crypto Venture Capital Firms including, but not limited to, Communications with board members, consultants, officers, directors, employees, developers, coders, and others performing work on behalf of these entities, Concerning:
 - a. The Merge or the Beacon Chain;
 - b. ongoing or future development of the Ethereum blockchain; or
 - c. acting as a validator for the Ethereum blockchain.

DECLARATION OF [Insert Name] CERTIFYING RECORDS OF REGULARLY CONDUCTED BUSINESS ACTIVITY

I, the undersigned, [insert name], pursuant to 28 U.S.C. § 1746, declare that:

- 1. I am employed by Payward, Inc. (d/b/a Kraken) as [insert position] and by reason of my position am authorized and qualified to make this declaration. [if possible supply additional information as to how person is qualified to make declaration, e.g., I am custodian of records, I am familiar with the company's recordkeeping practices or systems, etc.]
- 2. I further certify that the documents [attached hereto or submitted herewith] and stamped [insert bates range] are true copies of records that were:
 - (a) made at or near the time of the occurrence of the matters set forth therein, by, or from information transmitted by, a person with knowledge of those matters;
 - (b) kept in the course of regularly conducted business activity; and
 - (c) made by the regularly conducted business activity as a regular practice.

I declare under penalty of perjury that the foregoing is true and correct. Executed on [date].

[Name]	



U.S. Securities and Exchange Commission

Data Delivery Standards

This document describes the technical requirements for paper and electronic document productions to the U.S. Securities and Exchange Commission (SEC). **Any questions or proposed file formats other than those described below must be discussed with the legal and technical staff of the SEC Division of Enforcement prior to submission. **

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General Instructions

Congred Instructions

The current mailing address for all physical productions sent to the SEC is:

ENF-CPU (U.S. Securities & Exchange Commission), 14420 Albemarle Point Place, Suite 102, Chantilly, VA 20151-1750

Electronic files must be produced in their native format, i.e. the format in which they are ordinarily used and maintained during the normal course of business. For example, an MS Excel file must be produced as an MS Excel file rather than an image of a spreadsheet. (Note: An Adobe PDF file is not considered a native file unless the document was initially created as a PDF.)

In the event produced files require the use of proprietary software not commonly found in the workplace, the SEC will explore other format options with the producing party.

The proposed use of file de-duplication methodologies or computer-assisted review or technology-assisted review (TAR) during the processing of documents must be discussed with and approved by the legal and technical staff of the Division of Enforcement (ENF). If your production will be de-duplicated it is vital that you 1) preserve any unique metadata associated with the duplicate files, for example, custodian name and file location and, 2) make that unique metadata part of your production to the SEC.

General requirements for ALL document productions are:

- 1. A cover letter must be included with each production and should include the following information:
 - a. Case number, case name and requesting SEC staff member name
 - b. A list of each piece of media included in the production with its unique production volume number
 - c. A list of custodians, identifying the Bates range for each custodian
 - d. A list of redacted documents and the redaction reason
 - c. The time zone in which the emails were standardized during conversion
 - f. Whether the production contains native files produced from Mac operating system environments
- Data can be produced on CD, DVD, thumb drive, etc., using the media requiring the least number of deliverables and labeled with the following:
 - a. Case number
 - b. Production date
 - c. Producing party
 - d. Bates range (if applicable)
- All submissions must be organized by custodian unless otherwise instructed.
- 4. All document family groups, i.e. email attachments, embedded files, etc., should be produced together and children files should follow parent files sequentially in the Bates numbering.
- 5. All load-ready collections should include only one data load file and one image pointer file.
- All load-ready text must be produced as separate document-level text files.
- 7. All load-ready collections should account for custodians in the custodian field.
- All load-ready collections must provide the extracted contents of any container files to ensure all relevant files are produced as separate records.
- 9. Audio files should be separated from data files if both are included in the production.
- 10. Only alphanumeric characters and the underscore character are permitted in file names and folder names. Special characters are not permitted.
- 11. All electronic productions submitted on media must be produced using industry standard self-extracting encryption software.
- 12. The SEC uses 7zip to access compressed files. Note that the SEC **cannot** accept files that use AES-256 Jpeg or pkAES-256-Cert Deflate compression methods, even if the files are created with 7zip. If you have any questions or need additional information, please reach out to the requesting SEC staff member.
- 13. Electronic productions of 30 GB or less are strongly encouraged to be submitted via Secure File Transfer. All Secure File Transfers should be sent to the SEC Centralized Production Unit (ENF-CPU@sec.gov) with a CC to the requesting SEC staff member. If you do not have your own Secure File Transfer application, you may reach out to the requesting SEC staff member for a link to the SEC system in order to upload your production. If using the SEC Secure File Transfer system, you will NOT be able to CC individuals outside the SEC on your upload transmission. Note that the SEC cannot accept productions made using file sharing sites such as Google Drive or Microsoft Office 365.
- 14. Productions containing BSA or SAR material must be encrypted. Secure File Transfer applications may be used to produce BSA or SAR material. BSA or SAR material should be segregated and appropriately marked as BSA or SAR, or should be produced separately from other case related records.
- 15. Passwords for electronic documents, files, compressed archives and encrypted media must be provided separately either via email or in a cover letter apart from the media.
- 16. All electronic productions should be produced free of computer viruses.
- 17. Before producing forensically collected images, parties should reach out to the requesting SEC staff member in order to discuss appropriate handling.
- 18. Before producing unique data sets (large sets of relational data, website reconstruction, chat room data, etc.), parties should reach out to the requesting SEC staff member in order to discuss an appropriate production format.
- Additional technical descriptions can be found in the addendum to this document.

Please note that productions sent to the SEC via United States Postal Service are subject to Mail Irradiation, and as a result electronic productions may be damaged.

Data Delivery Standards

Delivery Formats

Imaged Productions

The SEC prefers that all scanned paper and electronic file collections be produced in a structured format including industry standard load files, Bates numbered image files, native files and searchable document-level text files. Bates numbers should not contain spaces. Hyphens (-) and underscores (-) are acceptable.

1. Images

- Black and white images must be 300 DPI Group IV single-page TIFF files
- b. Color images must be produced in JPEG format
- File names cannot contain embedded spaces or special characters (including the comma)
- d. Folder names cannot contain embedded spaces or special characters (including the comma)
- e. All image files must have a unique file name, i.e. Bates number
- f. Images must be endorsed with sequential Bates numbers in the lower right corner of each image
- The number of image files per folder should not exceed 2,000 files g.
- h. Excel spreadsheets should have a placeholder image named by the Bates number of the file
- AUTOCAD/photograph files should be produced as a single page JPEG file

2. Image Cross-Reference File

The image cross-reference file (LOG or .OPT) links the images to the database records. It should be a comma-delimited file consisting of seven fields per line with a line in the cross-reference file for every image in the database with the following format:

ImageID, VolumeLabel, ImageFilePath, DocumentBreak, FolderBreak, BoxBreak, PageCount

3. Data File

The data file (.DAT) contains all of the fielded information that will be loaded into the database.

- The first line of the .DAT file must be a header row identifying the field names
- The .DAT file must use the following *Concordance*® default delimiters:

Comma ¶ ASCII character (020)

Quote b ASCII character (254)

- c. If the .DAT file is produced in Unicode format it must contain the byte order marker
- d. Date fields should be provided in the format: mm/dd/yyyy
- Date and time fields must be two separate fields
- The time zone must be included in all time fields f.
- If the production includes imaged emails and attachments, the attachment fields must be included to preserve the parent/child relationship between an email and its attachments
- An OCRPATH field must be included to provide the file path and name of the extracted text file on the produced storage media. The text file must be named after the FIRSTBATES. Do not include the text in the .DAT file.
- For productions with native files, a LINK field must be included to provide the file path and name of the native file on the produced storage media. The native file must be named after the FIRSTBATES.
- BEGATTACH and ENDATTACH fields must be two separate fields
- A complete list of metadata fields is available in Addendum A to this document

4. Text

Text must be produced as separate document-level text files, not as fields within the .DAT file. The text files must be named per the FIRSTBATES/Image Key and the full path to the text file (OCRPATII) should be included in the .DAT file. Text files may be in either ANSI or Unicode format, however, ALL text files must be in the same format within the same production. Note that productions containing text with foreign characters must produce text files in Unicode format to preserve the foreign characters. Text files must be in a separate folder, and the number of text files per folder should not exceed 2,000 files. There should be no special characters (including commas) in the folder names. For redacted documents, provide the full text for the redacted version.

Linked Native Files

Copies of original email and native file documents/attachments must be included for all electronic productions.

- a. Native file documents must be named per the FIRSTBATES number
- b. The full path of the native file must be provided in the .DAT file for the LINK field
- The number of native files per folder should not exceed 2,000 files

II. Native File Production without Load Files

With prior approval, native files may be produced without load files. Native file productions should not be Bates numbered. Native files must be produced as they are maintained in the normal course of business and organized by custodian-named file folders. Native email files (.PST or .MBOX) must be separated by custodian.

III. Adobe PDF File Production

With prior approval, Adobe PDF files may be produced in native file format.

- 1. All PDFs must be unitized at the document level, i.e. each PDF must represent a discrete document.
- 2. PDF files should be produced in separate folders named by the custodian. The folders should not contain any special characters (including commas).
- 3. All PDF files must contain embedded text that includes all discernible words within the document, not selected text or image only. This requires all layers of the PDF to be flattened first.
- 4. If PDF files are Bates endorsed, the PDF files must be named by the Bates range.

IV. Audio Files

Audio files from telephone recording systems must be produced in a format that is playable using Microsoft Windows Media PlayerTM. Additionally, the call information (metadata) related to each audio recording MUST be provided. The metadata file must be produced in a delimited text format. Field names must be included in the first row of the text file. The metadata must include, at a minimum, the following fields:

1) Caller Name: Caller's name or account/identification number

2) Originating Number: Caller's phone number3) Called Party Name: Called party's name

4) Terminating Number: Called party's phone number

5) Date: Date of call6) Time: Time of call

7) Filename: Filename of audio file

V. Video Files

Video files must be produced in a format that is playable using Microsoft Windows Media PlayerTM.

VI. Electronic Trade and Bank Records

When producing electronic trade records, bank records, or financial statements, provide the files in one of the following formats:

- 1. MS Excel spreadsheet with header information detailing the field structure. If any special codes exist in the dataset, a separate document must be provided that details all such codes. If details of the field structure do not fit in the header, a separate document must be provided that includes such details.
- 2. Delimited text file with header information detailing the field structure. The preferred delimiter is a vertical bar "|". If any special codes exist in the dataset, a separate document must be provided that details all such codes. If details of the field structure do not fit in the header, a separate document must be provided that includes such details.

VII. Electronic Phone Records

When producing an MS Excel spreadsheet for electronic phone records, provide the files in the following format:

- 1. MS Excel spreadsheet with header information detailing the field structure. If any special codes exist in the dataset, a separate document must be provided that details all such codes. If details of the field structure do not fit in the header, a separate document must be provided that includes such details. Data must be formatted in its native format (i.e. dates in a date format, numbers in an appropriate numerical format, and numbers with leading zeroes as text).
 - a. The metadata that must be included is outlined in **Addendum B** of this document. Each field of data must be loaded into a separate column. For example, Date and Start_Time must be produced in separate columns and not combined into a single column containing both pieces of information. Any fields of data that are provided in addition to those listed in **Addendum B** must also be loaded into separate columns.

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Data Delivery Standards

VIII. Audit Workpapers

The SEC prefers for workpapers to be produced in two formats: (1) With Bates numbers in accordance with the SEC Data Delivery Standards; and (2) in native format via laptop computer, web-based viewing platform, or otherwise, allowing for viewing in the same format and organization as the firm's audit team. Prior to production of workpapers via laptop computer or web-based viewing platform, audit firms should contact the requesting SEC staff member for additional information and written agreements addressing use of software, access, and viewing protocols.

IX. Mobile Device Data

Before producing any mobile device data (including but not limited to text messages and application data) parties should reach out to the requesting SEC staff member in order to discuss the appropriate production format. Productions containing chat data from applications must be identified at the time of production and the following information must be provided to the requesting SEC staff member and the SEC Centralized Production Unit: chat application, chat data format, and how the length of a chat is determined (i.e. set duration of time, number of minutes without messages, etc.)

ADDENDUM A

The metadata of electronic document collections should be extracted and provided in a .DAT file using the field definition and formatting described below:

Field Name Sample Data Description FIRSTBATES EDC0000001 First Bates number of native file documents. LASTBATES EDC0000001 Last Bates number of native file documents.	
	ent/email
	ent/email
**The LASTBATES field should be po	opulated
for single page documents/emails.	
ATTACHRANGE EDC0000001 - EDC0000015 Bates number of the first page of	f the parent
document to the Bates number of the la	ast page of the
last attachment "child" document	
BEGATTACH EDC0000001 First Bates number of attachment range	
ENDATTACH EDC0000015 Last Bates number of attachment range	
PARENT_BATES EDC0000001 First Bates number of parent document/	
**This PARENT_BATES field should	
in each record representing an attack	hment "child"
document	
CHILD_BATES EDC0000002; EDC0000014 First Bates number of "child" attachmo	
more than one Bates number listed dep	pending on the
number of attachments	, , , , ,
**The CHILD_BATES field should be	
cach record representing a "parent" de	
CUSTODIAN Smith, John Email: Mailbox where the email reside	
Native: Name of the individual or de	pariment from
whose files the document originated	
FROM John Smith Email: Sender	
Native: Author(s) of document	
**semi-colon should be used to separat	te multiple
TO Coffman, Janice: LeeW Recipient(s)	
	4
[mailto:LeeW@MSN.com] **semi-colon should be used to separate entries	te multiple
CC Frank Thompson [mailto: Carbon copy recipient(s)	
frank_Thompson@cdt.com]	to multiple
entries	ic munipic
BCC John Cain Blind carbon copy recipient(s)	
**semi-colon should be used to separat	te multiple
entries	te manapie
SUBJECT Board Meeting Minutes Email: Subject line of the email	
Native: Title of document (if available)	
FILE_NAME BoardMeetingMinutes.docx Native: Name of the original native	file, including
extension	
DATE_SENT 10/12/2010 Email: Date the email was sent	
Native: (empty)	
TIME SENT/TIME 07:05 PM GMT Email: Time the email was sent/ Time	zone in which
ZONE the emails were standardized during co	
Native: (empty)	
**This data must be a separate field and	d cannot be
combined with the DATE_SENT field	
TIME_ZONE GMT The time zone in which the emails wer	re standardized
during conversion.	
Email: Time zone	
Native: (empty)	

LINK	D:\001\EDC0000001.msg	Hyperlink to the email or native file document **The linked file must be named per the FIRSTBATES number			
MIME_TYPE	application/msword	The content type of an email or native file document as identified/extracted from the header			
FILE_EXTEN	MSG	The file type extension representing the email or native file document; will vary depending on the format			
AUTHOR	John Smith	Email: (empty) Native: Author of the document			
LAST_AUTHOR	Jane Doe	Email: (empty) Native: Last Author of the document			
DATE_CREATED	10/10/2010	Email: (empty) Native: Date the document was created			
TIME_CREATED/T IME_ZONE	10:25 AM GMT	Email: (empty) Native: Time the document was created including time zone **This data must be a separate field and cannot be combined with the DATE_CREATED field			
DATE_MOD	10/12/2010	Email: (empty) Native: Date the document was last modified			
TIME_MOD/TIME_ ZONE	07:00 PM GMT	Email: (empty) Native: Time the document was last modified including the time zone **This data must be a separate field and cannot be combined with the DATE_MOD field			
DATE_ACCESSD	10/12/2010	Email: (empty) Native: Date the document was last accessed			
TIME_ACCESSD/T IME_ZONE	07:00 PM GMT	Email: (empty) Native: Time the document was last accessed including the time zone **This data must be a separate field and cannot be combined with the DATE_ACCESSD field			
PRINTED_DATE	10/12/2010	Email: (empty) Native: Date the document was last printed			
FILE_SIZE	5,952	Size of native file document/email in KB			
PGCOUNT	1	Number of pages in native file document/email			
PATH	J:\Shared\SmithJ\October Agenda.doc	Email: (empty) Native: Path where native file document was stored including original file name.			
INTFILEPATH	Personal Folders\Deleted Items\Board Meeting Minutes.msg	Email: original location of email including original file name. Native: (empty)			
INTMSGID	<000805c2c71bS75977050Scb 8306d1@MSN>	Email: Unique Message ID Native: (empty)			

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HEADER	Return-Path: <example_from@dc.edu> X-SpamCatcher-Score:1[X] Received:from[136.167.40.119] (HELO dc.edu) by fe3.dc.edu (CommuniGate Pro SMTP4.1.8) with ESMTP-TLS id 61258719 for example_to@mail.dc.edu; Mon, 23 Aug 2004 11:40:10 - 0400 Message-ID: <<4129F3CA.2020509@dc.edu> Date: Mon, 23 Aug 2005 11:40:36 -400 From: Taylor Evans <example_from@dc.edu> User-Agent:Mozilla/5.0 (Windows;U; Windows NT 5.1: en-US;rv:1.0.1) Gecko/20020823 Netscape/7.0 X-Accept-Language:en-us,en MIME-Version:1.0 To: Jon Smith <example_to@mail.dc.edu> Subject:Business Development Meeting Content-Type: text/plain;charset=us-ascii; format=flowed Content-Transfer-Encoding:7bit</example_to@mail.dc.edu></example_from@dc.edu></example_from@dc.edu>	
SHA256	AD6128C5CA40164AF71A1E FC800E12D2F195CE07BB5F8 C813B0888A2DDE6A06F	SHA-256 hash value of the document.
OCRPATH	TEXT/001/EDC0000001.txt	Path to extracted text of the native file

Sample Image Cross-Reference File:

IMG0000001,,E:\001\IMG0000001.TIF,Y,,,
IMG0000002,,E:\001\IMG0000002.TIF,,,,
IMG0000003,,E:\001\IMG0000003.TIF,,,,
IMG0000004,,E:\001\IMG0000005.TIF,Y,,,
IMG0000005,,E:\001\IMG0000005.TIF,Y,,,
IMG0000006,,E:\001\IMG0000006.TIF,,,,,

ADDENDUM B

For Electronic Phone Records, include the following fields in separate columns:

For Calls:

- 1) Account Number
- 2) Connection Date Date the call was received or made
- 3) Connection Time Time call was received or made
- 4) Seizure Time Time it took for the call to be placed in seconds
- 5) Originating Number Phone that placed the call
- 6) Terminating Number Phone that received the call
- 7) Elapsed Time The length of time the call lasted, preferably in seconds
- 8) End Time The time the call ended
- 9) Number Dialed Actual number dialed
- 10) IMEI Originating Unique id to phone used to make call
- 11) IMEI Terminating-Unique id to phone used to receive call
- 12) IMSI Originating Unique id to phone used to make call
- 13) IMSI Terminating- Unique id to phone used to receive call
- 14) Call Codes Identify call direction or other routing information
- 15) Time Zone Time Zone in which the call was received or placed, if applicable

For Text messages:

- 1) Account Number
- 2) Connection Date Date the text was received or made
- 3) Connection Time Time text was received or made
- 4) Originating Number Who placed the text
- 5) Terminating Number Who received the text
- 6) IMEI Originating Unique id to phone used to make text
- 7) IMEI Terminating—Unique id to phone used to receive text
- 8) IMSI Originating Unique id to phone used to make text
- 9) IMSI Terminating- Unique id to phone used to receive text
- 10) Text Code Identify text direction, or other text routing information
- 11) Text Type Code Type of text message (sent SMS, MMS, or other)
- 12) Time Zone Time Zone in which the call was received or placed, if applicable

For Mobile Data Usage:

- 1) Account Number
- Connection Date Date the data was received or made
- 3) Connection Time Time data was received or made
- 4) Originating number Number that used data
- 5) IMEI Originating Unique id of phone that used data
- 6) IMSI Originating Unique id of phone that used data
- 7) Data or Data codes Identify data direction, or other data routing information
- 8) Time Zone Time Zone in which the call was received or placed, if applicable

SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549

Supplemental Information for Persons Requested to Supply Information Voluntarily or Directed to Supply Information Pursuant to a Commission Subpoena

A. False Statements and Documents

Section 1001 of Title 18 of the United States Code provides that fines and terms of imprisonment may be imposed upon:

[W]hoever, in any matter within the jurisdiction of the executive, legislative, or judicial branch of the Government of the United States, knowingly and willfully--

- (1) falsifies, conceals, or covers up by any trick, scheme, or device a material fact;
- (2) makes any materially false, fictitious, or fraudulent statement or representation; or
- (3) makes or uses any false writing or document knowing the same to contain any materially false, fictitious, or fraudulent statement or entry.

Section 1519 of Title 18 of the United States Code provides that fines and terms of imprisonment may be imposed upon:

Whoever knowingly alters, destroys, mutilates, conceals, covers up, falsifies, or makes a false entry in any record, document, or tangible object with the intent to impede, obstruct, or influence the investigation or proper administration of any matter within the jurisdiction of any department or agency of the United States . . ., or in relation to or contemplation of any such matter.

B. Testimony

If your testimony is taken, you should be aware of the following:

- 1. Record. Your testimony will be transcribed by a reporter. If you desire to go off the record, please indicate this to the Commission employee taking your testimony, who will determine whether to grant your request. The reporter will not go off the record at your, or your counsel's, direction.
- 2. Counsel. You have the right to be accompanied, represented and advised by counsel of your choice. Your counsel may advise you before, during and after your testimony; question you briefly at the conclusion of your testimony to clarify any of the answers you give during testimony; and make summary notes during your testimony solely for your use. If you are accompanied by counsel, you may consult privately.

If you are not accompanied by counsel, please advise the Commission employee taking your testimony if, during the testimony, you desire to be accompanied, represented and advised by counsel. Your testimony will be adjourned once to afford you the opportunity to arrange to be so accompanied, represented or advised.

You may be represented by counsel who also represents other persons involved in the Commission's investigation. This multiple representation, however, presents a potential conflict of interest if one client's interests are or may be adverse to another's. If you are represented by counsel who also represents other persons involved in the investigation, the Commission will assume that you and counsel have discussed and resolved all issues concerning possible conflicts of interest. The choice of counsel, and the responsibility for that choice, is yours.

3. Transcript Availability. Rule 6 of the Commission's Rules Relating to Investigations, 17 CFR 203.6, states:

A person who has submitted documentary evidence or testimony in a formal investigative proceeding shall be entitled, upon written request, to procure a copy of his documentary evidence or a transcript of his testimony on payment of the appropriate fees: *Provided, however*, That in a nonpublic formal investigative proceeding the Commission may for good cause deny such request. In any event, any witness, upon proper identification, shall have the right to inspect the official transcript of the witness' own testimony.

If you wish to purchase a copy of the transcript of your testimony, the reporter will provide you with a copy of the appropriate form. Persons requested to supply information voluntarily will be allowed the rights provided by this rule.

4. *Perjury.* Section 1621 of Title 18 of the United States Code provides that fines and terms of imprisonment may be imposed upon:

Whoever-

(1) having taken an oath before a competent tribunal, officer, or person, in any case in which a law of the United States authorizes an oath to be administered, that he will testify, declare,

depose, or certify truly, or that any written testimony, declaration, deposition, or certificate by him subscribed, is true, willfully and contrary to such oath states or subscribes any material matter which he does not believe to be true; or

- (2) in any declaration, certificate, verification, or statement under penalty of perjury as permitted under section 1746 of title 28, United States Code, willfully subscribes as true any material matter which he does not believe to be true.
- 5. Fifth Amendment and Voluntary Testimony. Information you give may be used against you in any federal, state, local or foreign administrative, civil or criminal proceeding brought by the Commission or any other agency.

You may refuse, in accordance with the rights guaranteed to you by the Fifth Amendment to the Constitution of the United States, to give any information that may tend to incriminate you.

If your testimony is not pursuant to subpoena, your appearance to testify is voluntary, you need not answer any question, and you may leave whenever you wish. Your cooperation is, however, appreciated.

6. Formal Order Availability. If the Commission has issued a formal order of investigation, it will be shown to you during your testimony, at your request. If you desire a copy of the formal order, please make your request in writing.

C. Submissions and Settlements

Rule 5(c) of the Commission's Rules on Informal and Other Procedures, 17 CFR 202,5(c), states:

Persons who become involved in . . . investigations may, on their own initiative, submit a written statement to the Commission setting forth their interests and position in regard to the subject matter of the investigation. Upon request, the staff, in its discretion, may advise such persons of the general nature of the investigation, including the indicated violations as they pertain to them, and the amount of time that may be available for preparing and submitting a statement prior to the presentation of a staff recommendation to the Commission for the commencement of an administrative or injunction proceeding. Submissions by interested persons should be forwarded to the appropriate Division Director or Regional Director with a copy to the staff members conducting the investigation and should be clearly referenced to the specific investigation to which they relate. In the event a recommendation for the commencement of an enforcement proceeding is presented by the staff, any submissions by interested persons will be forwarded to the Commission in conjunction with the staff memorandum.

The staff of the Commission routinely seeks to introduce submissions made pursuant to Rule 5(c) as evidence in Commission enforcement proceedings, when the staff deems appropriate.

Rule 5(f) of the Commission's Rules on Informal and Other Procedures, 17 CFR 202.5(f), states:

In the course of the Commission's investigations, civil lawsuits, and administrative proceedings, the staff, with appropriate authorization, may discuss with persons involved the disposition of such matters by consent, by settlement, or in some other manner. It is the policy of the Commission, however, that the disposition of any such matter may not, expressly or impliedly, extend to any criminal charges that have been, or may be, brought against any such person or any recommendation with respect thereto. Accordingly, any person involved in an enforcement matter before the Commission who consents, or agrees to consent, to any judgment or order does so solely for the purpose of resolving the claims against him in that investigative, civil, or administrative matter and not for the purpose of resolving any criminal charges that have been, or might be, brought against him. This policy reflects the fact that neither the Commission nor its staff has the authority or responsibility for instituting, conducting, settling, or otherwise disposing of criminal proceedings. That authority and responsibility are vested in the Attorney General and representatives of the Department of Justice.

D. Freedom of Information Act

The Freedom of Information Act, 5 U.S.C. 552 (the "FOIA"), generally provides for disclosure of information to the public. Rule 83 of the Commission's Rules on Information and Requests, 17 CFR 200.83, provides a procedure by which a person can make a written request that information submitted to the Commission not be disclosed under the FOIA. That rule states that no determination as to the validity of such a request will be made until a request for disclosure of the information under the FOIA is received. Accordingly, no response to a request that information not be disclosed under the FOIA is necessary or will be given until a request for disclosure under the FOIA is received. If you desire an acknowledgment of receipt of your written request that information not be disclosed under the FOIA, please provide a duplicate request, together with a stamped, self-addressed envelope.

E. Authority for Solicitation of Information

Persons Directed to Supply Information Pursuant to Subpoena. The authority for requiring production of information is set forth in the subpoena. Disclosure of the information to the Commission is mandatory, subject to the valid assertion of any legal right or privilege you might have.

Persons Requested to Supply Information Voluntarily. One or more of the following provisions authorizes the Commission to solicit the information requested: Sections 19 and/or 20 of the Securities Act of 1933; Section 21 of the Securities Exchange Act of 1934; Section 321 of the Trust Indenture Act of 1939; Section 42 of the Investment Company Act of 1940; Section 209 of the Investment Advisers Act of 1940; and 17 CFR 202.5. Disclosure of the requested information to the Commission is voluntary on your part.

F. Effect of Not Supplying Information

Persons Directed to Supply Information Pursuant to Subpoena. If you fail to comply with the subpoena, the Commission may seek a court order requiring you to do so. If such an order is obtained and you thereafter fail to supply the information, you may be subject to civil and/or criminal sanctions for contempt of court. In addition, Section 21(c) of the Securities Exchange Act of 1934, Section 42(c) of the Investment Company Act of 1940, and Section 209(c) of the Investment Advisers Act of 1940 provide that fines and terms of imprisonment may be imposed upon any person who shall, without just cause, fail or refuse to attend and testify or to answer any lawful inquiry, or to produce books, papers, correspondence, memoranda, and other records in compliance with the subpoena.

Persons Requested to Supply Information Voluntarily. There are no direct sanctions and thus no direct effects for failing to provide all or any part of the requested information.

G. Principal Uses of Information

The Commission's principal purpose in soliciting the information is to gather facts in order to determine whether any person has violated, is violating, or is about to violate any provision of the federal securities laws or rules for which the Commission has enforcement authority, such as rules of securities exchanges and the rules of the Municipal Securities Rulemaking Board. Facts developed may, however, constitute violations of other laws or rules. Information provided may be used in Commission and other agency enforcement proceedings. Unless the Commission or its staff explicitly agrees to the contrary in writing, you should not assume that the Commission or its staff acquiesces in, accedes to, or concurs or agrees with, any position, condition, request, reservation of right, understanding, or any other statement that purports, or may be deemed, to be or to reflect a limitation upon the Commission's receipt, use, disposition, transfer, or retention, in accordance with applicable law, of information provided.

H. Routine Uses of Information

The Commission often makes its files available to other governmental agencies, particularly United States Attorneys and state prosecutors. There is a likelihood that information supplied by you will be made available to such agencies where appropriate. Whether or not the Commission makes its files available to other governmental agencies is, in general, a confidential matter between the Commission and such other governmental agencies.

Set forth below is a list of the routine uses which may be made of the information furnished.

- 1. To appropriate agencies, entities, and persons when (1) the SEC suspects or has confirmed that there has been a breach of the system of records, (2) the SEC has determined that as a result of the suspected or confirmed breach there is a risk of harm to individuals, the SEC (including its information systems, programs, and operations), the Federal Government, or national security; and (3) the disclosure made to such agencies, entities, and persons is reasonably necessary to assist in connection with the SEC's efforts to respond to the suspected or confirmed breach or to prevent, minimize, or remedy such harm.
- 2. To other Federal, state, local, or foreign law enforcement agencies; securities self-regulatory organizations; and foreign financial regulatory authorities to assist in or coordinate regulatory or law enforcement activities with the SEC.
- 3. To national securities exchanges and national securities associations that are registered with the SEC, the Municipal Securities Rulemaking Board; the Securities Investor Protection Corporation; the Public Company Accounting Oversight Board; the Federal banking authorities, including, but not limited to, the Board of Governors of the Federal Reserve System, the Comptroller of the Currency, and the Federal Deposit Insurance Corporation; state securities regulatory agencies or organizations; or regulatory authorities of a foreign government in connection with their regulatory or enforcement responsibilities.
- 4. By SEC personnel for purposes of investigating possible violations of, or to conduct investigations authorized by, the Federal securities laws.
- 5. In any proceeding where the Federal securities laws are in issue or in which the Commission, or past or present members of its staff, is a party or otherwise involved in an official capacity.
- 6. In connection with proceedings by the Commission pursuant to Rule 102(e) of its Rules of Practice, 17 CFR 201.102(e).

- 7. To a bar association, state accountancy board, or other Federal, state, local, or foreign licensing or oversight authority; or professional association or self-regulatory authority to the extent that it performs similar functions (including the Public Company Accounting Oversight Board) for investigations or possible disciplinary action.
- 8. To a Federal, state, local, tribal, foreign, or international agency, if necessary to obtain information relevant to the SEC's decision concerning the hiring or retention of an employee; the issuance of a security clearance; the letting of a contract; or the issuance of a license, grant, or other benefit.
- 9. To a Federal, state, local, tribal, foreign, or international agency in response to its request for information concerning the hiring or retention of an employee; the issuance of a security clearance; the reporting of an investigation of an employee; the letting of a contract; or the issuance of a license, grant, or other benefit by the requesting agency, to the extent that the information is relevant and necessary to the requesting agency's decision on the matter.
- 10. To produce summary descriptive statistics and analytical studies, as a data source for management information, in support of the function for which the records are collected and maintained or for related personnel management functions or manpower studies; may also be used to respond to general requests for statistical information (without personal identification of individuals) under the Freedom of Information Act.
- 11. To any trustee, receiver, master, special counsel, or other individual or entity that is appointed by a court of competent jurisdiction, or as a result of an agreement between the parties in connection with litigation or administrative proceedings involving allegations of violations of the Federal securities laws (as defined in section 3(a)(47) of the Securities Exchange Act of 1934, 15 U.S.C. 78c(a)(47)) or pursuant to the Commission's Rules of Practice, 17 CFR 201.100 through 900 or the Commission's Rules of Fair Fund and Disgorgement Plans, 17 CFR 201.1100 through 1106, or otherwise, where such trustee, receiver, master, special counsel, or other individual or entity is specifically designated to perform particular functions with respect to, or as a result of, the pending action or proceeding or in connection with the administration and enforcement by the Commission of the Federal securities laws or the Commission's Rules of Practice or the Rules of Fair Fund and Disgorgement Plans.
- 12. To any persons during the course of any inquiry, examination, or investigation conducted by the SEC's staff, or in connection with civil litigation, if the staff has reason to believe that the person to whom the record is disclosed may have further information about the matters related therein, and those matters appeared to be relevant at the time to the subject matter of the inquiry.
- 13. To interns, grantees, experts, contractors, and others who have been engaged by the Commission to assist in the performance of a service related to this system of records and who need access to the records for the purpose of assisting the Commission in the efficient administration of its programs, including by performing clerical, stenographic, or data analysis functions, or by reproduction of records by electronic or other means. Recipients of these records shall be required to comply with the requirements of the Privacy Act of 1974, as amended, 5 U.S.C.
- 14. In reports published by the Commission pursuant to authority granted in the Federal securities laws (as such term is defined in section 3(a)(47) of the Securities Exchange Act of 1934, 15 U.S.C. 78c(a)(47)), which authority shall include, but not be limited to, section 21(a) of the Securities Exchange Act of 1934, 15 U.S.C. 78u(a)).
- 15. To members of advisory committees that are created by the Commission or by Congress to render advice and recommendations to the Commission or to Congress, to be used solely in connection with their official designated functions.
- 16. To any person who is or has agreed to be subject to the Commission's Rules of Conduct, 17 CFR 200.735-1 through 200.735-18, and who assists in the investigation by the Commission of possible violations of the Federal securities laws (as such term is defined in section 3(a)(47) of the Securities Exchange Act of 1934, 15 U.S.C. 78c(a)(47)), in the preparation or conduct of enforcement actions brought by the Commission for such violations, or otherwise in connection with the Commission's enforcement or regulatory functions under the Federal securities laws.
- 17. To a Congressional office from the record of an individual in response to an inquiry from the Congressional office made at the request of that individual.
- 18. To members of Congress, the press, and the public in response to inquiries relating to particular Registrants and their activities, and other matters under the Commission's jurisdiction.
- 19. To prepare and publish information relating to violations of the Federal securities laws as provided in 15 U.S.C. 78c(a)(47)), as amended.
- 20. To respond to subpoenas in any litigation or other proceeding.
- 21. To a trustee in bankruptcy.
- 22. To any governmental agency, governmental or private collection agent, consumer reporting agency or commercial reporting agency, governmental or private employer of a debtor, or any other person, for collection,

including collection by administrative offset, Federal salary offset, tax refund offset, or administrative wage garnishment, of amounts owed as a result of Commission civil or administrative proceedings.

23. To another Federal agency or Federal entity, when the SEC determines that information from this system of records is reasonably necessary to assist the recipient agency or entity in (1) responding to a suspected or confirmed breach or (2) preventing, minimizing, or remedying the risk of harm to individuals, the recipient agency or entity (including its information systems, programs, and operations), the Federal Government, or national security, resulting from a suspected or confirmed breach.

* * * * *

Small Business Owners: The SEC always welcomes comments on how it can better assist small businesses. If you would like more information, or have questions or comments about federal securities regulations as they affect small businesses, please contact the Office of Small Business Policy, in the SEC's Division of Corporation Finance, at 202-551-3460. If you would prefer to comment to someone outside of the SEC, you can contact the Small Business Regulatory Enforcement Ombudsman at http://www.sba.gov/ombudsman or toll free at 888-REG-FAIR. The Ombudsman's office receives comments from small businesses and annually evaluates federal agency enforcement activities for their responsiveness to the special needs of small business.



UNITED STATES SECURITIES AND EXCHANGE COMMISSION

100 PEARL STREET, SUITE 20-100 NEW YORK, NY 10004-2616

DIVISION OF ENFORCEMENT

March 14, 2024

VIA UPS and email hello@blocknative.com Blocknative Corporation 540 Howard Street San Francisco, CA 94105

Re: C-08950

To Whom It May Concern:

The enclosed subpoena has been issued pursuant to a formal order entered by the United States Securities and Exchange Commission. Pursuant to Rule 8 of the United States Securities and Exchange Commission's Rules Relating to Investigations, 17 C.F.R. § 203.8, I have enclosed a subpoena for documents issued to Blocknative Corporation ("Blocknative") in connection with the above-referenced investigation.

This is a federal civil law enforcement investigation and you must produce all documents described in the attached subpoena. The enclosed subpoena requires Blocknative to produce documents to the SEC by March 28, 2024 to:

ENF-CPU U.S. Securities and Exchange Commission 14420 Albemarle Point Place, Suite 102 Chantilly, VA 20151-1750

For smaller electronic productions under 10MB in size, the materials may be emailed to the following email address: ENF-CPU@scc.gov.

<u>Please</u> :	also provide a di	uplicate cor	by of any o	do <u>cument n</u>	<u>ro</u> duction	cover letters	to me at
(b)(6); (b)(7)(C)	at (b)(6); (b)(7)(C) a	sec.gov, 🖟)(6); (b)(7)(C)	at (b)(6); (b)(7)(sec.gov	(b)(6); (b)(7)(C)	at
(b)(6); (b)(7)(C) £SG	c.gov, and (b)(6);	(b)(7)(C) ε	at (b)(6); (b)(7)(C)	isec.gov.	Additiona	ally, please in	nclude the
SEC matter nu	mber and the na	me of the r	equesting	attorney wl	hen respon	ding.	

Please carefully read the subpoena attachment, which contains, among other things, important instructions related to the manner of producing documents. In particular, if Blocknative prefers to send us copies of original documents, the staff requests that you scan and produce hard copy documents, as well as electronic documents, in an electronic format

consistent with the SEC Data Delivery Standards attached hereto. All electronic documents responsive to the subpoena, including all metadata, should also be produced in their native software format. If you have any questions concerning the production of documents in an electronic format, please contact me as soon as possible and in any event before producing documents. For security reasons, we strongly encourage the encryption of sensitive documents before production.

When producing the records, please consecutively number and mark each document produced with a symbol that identifies it as being produced by Blocknative and provide an index which briefly identifies the documents produced.

In your cover letter(s) accompanying the production of responsive documents, please enclose a list briefly describing each item you send. The list should identify the paragraph(s) in the subpoena attachment to which each item responds. Please also state in the cover letter(s) whether you believe Blocknative has met the obligations of the subpoena by searching carefully and thoroughly for everything called for by the subpoena and sending it all to us.

A copy of the subpoena should be included with the documents that are produced. Correspondence should reference case number and requesting SEC staff member.

Passwords for documents, files, compressed archives, and encrypted media should be provided separately either via email addressed to ENF-CPU@sec.gov, or in a separate cover letter mailed separately from the data. Password correspondence should reference case number and requesting SEC staff member.

In addition, for any documents that qualify as records of regularly conducted activities under Federal Rule of Evidence 902(11), please have the appropriate representative(s) of Blocknative complete a business records certification (a sample of which is enclosed) and return it with the document production. Execution of this certification may allow the Commission to introduce the documents provided by Blocknative in any subsequent judicial proceeding, without requiring the testimony of a records custodian.

Enclosed is a copy of the Commission's Form 1662, entitled "Supplemental Information for Persons Requested to Supply Information Voluntarily or Directed to Supply Information Pursuant to a Commission Subpoena." This form explains how we may use the information which Blocknative provides to the Commission and has other important information. Please provide a copy of this form to Blocknative.

This investigation is a non-public, fact-finding inquiry. We are trying to determine whether there have been any violations of the federal securities laws. The investigation does not mean that we have concluded that anyone has violated the law. Also, the investigation does not mean that we have a negative opinion of any person, entity, or security.

If you have any questions or would like to discuss this matter, you may contact me at $\widehat{\omega}$ sec.gov.

Sincerely,	
(b)(6); (b)(7)(C)	_
District of CE of the control of	
Division of Enforcement	
(b)(6); (b)(7)(C) sec.gov	

Enclosures: Subpoena and Attachment

Business Records Certification SEC Data Delivery Standards

SEC Form 1662



SUBPOENA

UNITED STATES OF AMERICA SECURITIES AND EXCHANGE COMMISSION

C-08950

To: Blocknative Corporation 540 Howard Street San Francisco, CA 94105

YOU MUST PRODUCE everything specified in the Attachment to this subpoena to officers of the Securities and Exchange Commission, at the place, date and time specified below:

ENF-CPU, U.S. Securities and Exchange Commission, 14420 Albemarle Point Place, Suite 102 Chantilly, VA 20151-1750, no later than March 28, 2024.

☐ YOU MUST TESTIFY before officers of the Securities and Exchange Commission, at the place, date and time specified below:

FEDERAL LAW REQUIRES YOU TO COMPLY WITH THIS SUBPOENA.

If you do not comply with this subpoena, the SEC may bring an action in Federal Court to enforce this subpoena. Failure to comply with a court order enforcing this subpoena may result in the court imposing a fine, imprisonment, or both.

By: (b)(6); (b)(7)(C) Date: March 14, 2024

U.S. Securities and Exchange Commission New York Regional Office 100 Pearl Street, Suite 20-100 New York, NY 10004-2616

I am an officer of the U.S. Securities and Exchange Commission authorized to issue subpoenas in this matter. The Securities and Exchange Commission has issued a formal order authorizing this investigation under Section 20(a) of the Securities Act of 1933.

NOTICE TO WITNESS: If you claim a witness fee or mileage, submit this subpoena with the claim voucher.

SUBPOENA ATTACHMENT FOR BLOCKNATIVE CORPORATION C-08950

March 14, 2024

Definitions

As used in this subpoena, the words and phrases listed below shall have the following meanings:

- 1. "Relevant Period" means July 1, 2018 to the present.
- 2. "Blocknative" means the entity doing business under the name Blocknative Corporation including parents, subsidiaries, affiliates, predecessors, successors, officers, directors, employees, agents, general partners, limited partners, partnerships and aliases, code names, or trade or business names used by any of the foregoing.
- 3. The "Ethereum Foundation" means the entity or business doing business under the name Ethereum Foundation, including, but not limited to, ethereum.org, the Ethereum Support Program, and parents, subsidiaries, affiliates, predecessors, successors, officers, directors, employees, agents, general partners, limited partners, partnerships and aliases, owners, code names, or trade or business names used by any of the foregoing.
- 4. "The Merge" or "Ethereum 2.0" means the transition by the Ethereum blockchain of its consensus mechanism from proof-of-work to proof-of-stake.
- 5. "Beacon Chain" means the original proof-of-stake blockchain that was launched in 2020 that ran alongside the original proof-of-work Ethereum blockchain.
- 6. "Document" shall include, but is not limited to, any written, printed, or typed matter including, but not limited to all drafts and copies bearing notations or marks not found in the original, letters and correspondence, interoffice communications, slips, tickets, records, worksheets, financial records, accounting documents, bookkeeping documents, memoranda, reports, manuals, telephone logs, facsimiles, messages of any type, telephone messages, text messages, voice mails, tape recordings, notices, instructions, minutes, summaries, notes of meetings, file folder markings, and any other organizational indicia, purchase orders, information recorded by photographic process, including microfilm and microfiche, computer printouts, spreadsheets, and other electronically stored information, including writings, drawings, graphs, charts, photographs, sound recordings, images, and other data or data compilations that are stored in any medium from which information can be retrieved, obtained, manipulated, or translated.
- 7. "Communication" means any correspondence, contact, discussion, e-mail, instant message, or any other kind of oral or written exchange or transmission of information (in the form of facts, ideas, inquiries, or otherwise), including but not limited to those made on Social Media Services, and any response thereto between two or more Persons or entities, including, without limitation, all telephone conversations, face-to-face meetings

or conversations, internal or external discussions, or exchanges of a Document or Documents.

- 8. "Concerning" means directly or indirectly, in whole or in part, describing, constituting, evidencing, recording, evaluating, substantiating, concerning, referring to, alluding to, in connection with, commenting on, relating to, regarding, discussing, showing, analyzing or reflecting.
- 9. "Agreement" means any actual or contemplated (i) written or oral Agreement; (ii) term or provision of such Agreement; or (iii) amendment of any nature or termination of such Agreement. A request for any Agreement among or between specified parties includes a request for all Documents Concerning (i) any actual or contemplated Agreement among or between such parties, whether or not such Agreement included any other Person; (ii) the drafting or negotiation of any such Agreement; (iii) any actual or contemplated demand, request or application for any such Agreement, and any response thereto; and (iv) any actual or contemplated objection or refusal to enter into any such Agreement, and any response thereto.
- 10. "Bank or Financial Account" means the domestic or foreign bank, brokerage, or financial accounts held, controlled, or used by you or by other people on your behalf. This includes, but is not limited to, accounts that contain currency, securities, or crypto assets.
- 11. "Person" means a natural person, firm, association, organization, partnership, business, trust, corporation, bank or any other private or public entity.
- 12. The term "you" and "your" means the Person to whom or entity to which this subpoena was issued.
- 13. To the extent necessary to bring within the scope of this this subpoena any information or Documents that might otherwise be construed to be outside its scope:
 - the word "or" means "and/or"; a.
 - the word "and" means "and/or"; b.
 - the functional words "each," "every" "any" and "all" shall each be deemed to c. include each of the other functional words;
 - d. the masculine gender includes the female gender and the female gender includes the masculine gender; and
 - the singular includes the plural and the plural includes the singular. e.

Instructions

1. Unless otherwise specified, this subpoena calls for production of the original Documents and all copies and drafts of same. Documents responsive to this subpoena may be in electronic or paper form. Electronic Documents such as email should be produced in accordance with the attached Document entitled SEC Data Delivery Standards. All responsive electronic Documents, including all metadata, should also be produced in their native software format.

- 2. For Documents in paper format, you may send the originals, or, if you prefer, you may send copies of the originals. The Commission cannot reimburse you for the copying costs. If you are sending copies, the staff requests that you scan (rather than photocopy) hard copy Documents and produce them in an electronic format consistent with the SEC Data Delivery Standards. Alternatively, you may send us photocopies of the Documents in paper format. If you choose to send copies, you <u>must</u> secure and retain the originals and store them in a safe place. The staff may later request or require that you produce the originals.
- 3. Whether you scan or photocopy Documents, the copies must be identical to the originals, including even faint marks or print. Also, please note that if copies of a Document differ in any way, they are considered separate Documents and you must send each one. For example, if you have two copies of the same letter, but only one of them has handwritten notes on it, you must send both the clean copy and the one with notes.
- 4. In producing a photocopy of an original Document that contains post-it(s), notation flag(s), or other removable markings or attachments which may conceal all or a portion of the markings contained in the original Document, photocopies of the original Document both with and without the relevant post-it(s), notation flag(s), or removable markings or attachments should be produced.
- 5. Documents should be produced as they are kept in the ordinary course of business or be organized and labeled to correspond with the categories in this request. In that regard, Documents should be produced in a unitized manner, i.e., delineated with staples or paper clips to identify the Document boundaries.
- 6. Documents should be labeled with sequential numbering (bates-stamped).
- 7. The scope of any given request should not be limited or narrowed on the basis that it calls for Documents that are responsive to another request.
- 8. This subpoena covers all Documents in or subject to your possession, custody or control, including all Documents that are not in your immediate possession but that you have the effective ability to obtain, that are responsive, in whole or in part, to any of the individual requests set forth below. If, for any reason—including a claim of attorney-client privilege you do not produce something called for by the request, you should submit a list of what you are not producing. The list should describe each item separately, noting:
 - a. its author(s);
 - b. its date;
 - c. its subject matter;
 - d. the name of the Person who has the item now, or the last Person known to have it;
 - e. the names of everyone who ever had the item or a copy of it, and the names of everyone who was told the item's contents;
 - f. the basis upon which you are not producing the responsive Document;

- g. the specific request in the subpoena to which the Document relates;
- h. the attorney(s) and the client(s) involved; and
- i. in the case of the work product doctrine, the litigation for which the Document was prepared in anticipation.
- 9. If Documents responsive to this subpoena no longer exist because they have been lost, discarded, or otherwise destroyed, you should identify such Documents and give the date on which they were lost, discarded, or destroyed.

Documents to be Immediately Preserved and Produced

- 1. All Agreements between Blocknative and the Ethereum Foundation;
- 2. All Documents and Communications Concerning any grant or other source of funding received from the Ethereum Foundation;
- 3. All Documents and Communications Concerning any work conducted by Blocknative pursuant to any grant or other source of funding received from the Ethereum Foundation;
- 4. Documents sufficient to identify Blocknative's crypto asset wallet addresses or Bank or Financial Accounts, located within or outside the U.S., that received any grant or other source of funding from the Ethereum Foundation, as well as the amount of crypto assets or fiat received;
- 5. Documents sufficient to identify all meetings with the Ethereum Foundation, including any Documents related to the meetings identified;
- 6. All Communications with the Ethereum Foundation, including, but not limited to, Communications with board members, consultants, officers, directors, employees, developers, coders, and others performing work on behalf of these entities, related to The Merge or the Beacon Chain.

DECLARATION OF [Insert Name] CERTIFYING RECORDS OF REGULARLY CONDUCTED BUSINESS ACTIVITY

I, the undersigned, [insert name], pursuant to 28 U.S.C. § 1746, declare that:

- 1. I am employed by Blocknative Corporation as [insert position] and by reason of my position am authorized and qualified to make this declaration. [if possible supply additional information as to how person is qualified to make declaration, e.g., I am custodian of records, I am familiar with the company's recordkeeping practices or systems, etc.]
- 2. I further certify that the documents [attached hereto or submitted herewith] and stamped [insert bates range] are true copies of records that were:
 - (a) made at or near the time of the occurrence of the matters set forth therein, by, or from information transmitted by, a person with knowledge of those matters;
 - (b) kept in the course of regularly conducted business activity; and
 - (c) made by the regularly conducted business activity as a regular practice.

I declare under penalty of perjury that the foregoing is true and correct. Executed on [date].

[Name]	



U.S. Securities and Exchange Commission

Data Delivery Standards

This document describes the technical requirements for paper and electronic document productions to the U.S. Securities and Exchange Commission (SEC). **Any questions or proposed file formats other than those described below must be discussed with the legal and technical staff of the SEC Division of Enforcement prior to submission. **

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General Instructions

Congred Instructions

The current mailing address for all physical productions sent to the SEC is:

ENF-CPU (U.S. Securities & Exchange Commission), 14420 Albemarle Point Place, Suite 102, Chantilly, VA 20151-1750

Electronic files must be produced in their native format, i.e. the format in which they are ordinarily used and maintained during the normal course of business. For example, an MS Excel file must be produced as an MS Excel file rather than an image of a spreadsheet. (Note: An Adobe PDF file is not considered a native file unless the document was initially created as a PDF.)

In the event produced files require the use of proprietary software not commonly found in the workplace, the SEC will explore other format options with the producing party.

The proposed use of file de-duplication methodologies or computer-assisted review or technology-assisted review (TAR) during the processing of documents must be discussed with and approved by the legal and technical staff of the Division of Enforcement (ENF). If your production will be de-duplicated it is vital that you 1) preserve any unique metadata associated with the duplicate files, for example, custodian name and file location and, 2) make that unique metadata part of your production to the SEC.

General requirements for ALL document productions are:

- 1. A cover letter must be included with each production and should include the following information:
 - a. Case number, ease name and requesting SEC staff member name
 - b. A list of each piece of media included in the production with its unique production volume number
 - c. A list of custodians, identifying the Bates range for each custodian
 - d. A list of redacted documents and the redaction reason
 - c. The time zone in which the emails were standardized during conversion
 - f. Whether the production contains native files produced from Mac operating system environments
- 2. Data can be produced on CD, DVD, thumb drive, etc., using the media requiring the least number of deliverables and labeled with the following:
 - a. Case number
 - b. Production date
 - c. Producing party
 - d. Bates range (if applicable)
- All submissions must be organized by custodian unless otherwise instructed.
- 4. All document family groups, i.e. email attachments, embedded files, etc., should be produced together and children files should follow parent files sequentially in the Bates numbering.
- 5. All load-ready collections should include only one data load file and one image pointer file.
- 6. All load-ready text must be produced as separate document-level text files.
- 7. All load-ready collections should account for custodians in the custodian field.
- All load-ready collections must provide the extracted contents of any container files to ensure all relevant files are produced as separate records.
- 9. Audio files should be separated from data files if both are included in the production.
- Only alphanumeric characters and the underscore character are permitted in file names and folder names. Special characters
 are not permitted.
- 11. All electronic productions submitted on media must be produced using industry standard self-extracting encryption software.
- 12. The SEC uses 7zip to access compressed files. Note that the SEC **cannot** accept files that use AES-256 Jpeg or pkAES-256-Cert Deflate compression methods, even if the files are created with 7zip. If you have any questions or need additional information, please reach out to the requesting SEC staff member.
- 13. Electronic productions of 30 GB or less are strongly encouraged to be submitted via Secure File Transfer. All Secure File Transfers should be sent to the SEC Centralized Production Unit (ENF-CPU@sec.gov) with a CC to the requesting SEC staff member. If you do not have your own Secure File Transfer application, you may reach out to the requesting SEC staff member for a link to the SEC system in order to upload your production. If using the SEC Secure File Transfer system, you will NOT be able to CC individuals outside the SEC on your upload transmission. Note that the SEC cannot accept productions made using file sharing sites such as Google Drive or Microsoft Office 365.
- 14. Productions containing BSA or SAR material must be encrypted. Secure File Transfer applications may be used to produce BSA or SAR material. BSA or SAR material should be segregated and appropriately marked as BSA or SAR, or should be produced separately from other case related records.
- 15. Passwords for electronic documents, files, compressed archives and encrypted media must be provided separately either via email or in a cover letter apart from the media.
- 16. All electronic productions should be produced free of computer viruses.
- 17. Before producing forensically collected images, parties should reach out to the requesting SEC staff member in order to discuss appropriate handling.
- 18. Before producing unique data sets (large sets of relational data, website reconstruction, chat room data, etc.), parties should reach out to the requesting SEC staff member in order to discuss an appropriate production format.
- Additional technical descriptions can be found in the addendum to this document.

Please note that productions sent to the SEC via United States Postal Service are subject to Mail Irradiation, and as a result electronic productions may be damaged.

Delivery Formats

Imaged Productions

The SEC prefers that all scanned paper and electronic file collections be produced in a structured format including industry standard load files, Bates numbered image files, native files and searchable document-level text files. Bates numbers should not contain spaces. Hyphens (-) and underscores (-) are acceptable.

1. Images

- Black and white images must be 300 DPI Group IV single-page TIFF files
- b. Color images must be produced in JPEG format
- File names cannot contain embedded spaces or special characters (including the comma)
- d. Folder names cannot contain embedded spaces or special characters (including the comma)
- e. All image files must have a unique file name, i.e. Bates number
- f. Images must be endorsed with sequential Bates numbers in the lower right corner of each image
- The number of image files per folder should not exceed 2,000 files g.
- h. Excel spreadsheets should have a placeholder image named by the Bates number of the file
- AUTOCAD/photograph files should be produced as a single page JPEG file

2. Image Cross-Reference File

The image cross-reference file (LOG or .OPT) links the images to the database records. It should be a comma-delimited file consisting of seven fields per line with a line in the cross-reference file for every image in the database with the following format:

ImageID, VolumeLabel, ImageFilePath, DocumentBreak, FolderBreak, BoxBreak, PageCount

3. Data File

The data file (.DAT) contains all of the fielded information that will be loaded into the database.

- The first line of the .DAT file must be a header row identifying the field names
- The .DAT file must use the following *Concordance*® default delimiters:

Comma ¶ ASCII character (020)

Quote b ASCII character (254)

- c. If the .DAT file is produced in Unicode format it must contain the byte order marker
- d. Date fields should be provided in the format: mm/dd/yyyy
- Date and time fields must be two separate fields
- The time zone must be included in all time fields f.
- If the production includes imaged emails and attachments, the attachment fields must be included to preserve the parent/child relationship between an email and its attachments
- An OCRPATH field must be included to provide the file path and name of the extracted text file on the produced storage media. The text file must be named after the FIRSTBATES. Do not include the text in the .DAT file.
- For productions with native files, a LINK field must be included to provide the file path and name of the native file on the produced storage media. The native file must be named after the FIRSTBATES.
- BEGATTACH and ENDATTACH fields must be two separate fields
- A complete list of metadata fields is available in Addendum A to this document

4. Text

Text must be produced as separate document-level text files, not as fields within the .DAT file. The text files must be named per the FIRSTBATES/Image Key and the full path to the text file (OCRPATII) should be included in the .DAT file. Text files may be in either ANSI or Unicode format, however, ALL text files must be in the same format within the same production. Note that productions containing text with foreign characters must produce text files in Unicode format to preserve the foreign characters. Text files must be in a separate folder, and the number of text files per folder should not exceed 2,000 files. There should be no special characters (including commas) in the folder names. For redacted documents, provide the full text for the redacted version.

Linked Native Files

Copies of original email and native file documents/attachments must be included for all electronic productions.

- a. Native file documents must be named per the FIRSTBATES number
- b. The full path of the native file must be provided in the .DAT file for the LINK field
- The number of native files per folder should not exceed 2,000 files

II. Native File Production without Load Files

With prior approval, native files may be produced without load files. Native file productions should not be Bates numbered. Native files must be produced as they are maintained in the normal course of business and organized by custodian-named file folders. Native email files (.PST or .MBOX) must be separated by custodian.

III. Adobe PDF File Production

With prior approval, Adobe PDF files may be produced in native file format.

- 1. All PDFs must be unitized at the document level, i.e. each PDF must represent a discrete document.
- 2. PDF files should be produced in separate folders named by the custodian. The folders should not contain any special characters (including commas).
- 3. All PDF files must contain embedded text that includes all discernible words within the document, not selected text or image only. This requires all layers of the PDF to be flattened first.
- 4. If PDF files are Bates endorsed, the PDF files must be named by the Bates range.

IV. Audio Files

Audio files from telephone recording systems must be produced in a format that is playable using Microsoft Windows Media PlayerTM. Additionally, the call information (metadata) related to each audio recording MUST be provided. The metadata file must be produced in a delimited text format. Field names must be included in the first row of the text file. The metadata must include, at a minimum, the following fields:

1) Caller Name: Caller's name or account/identification number

2) Originating Number: Caller's phone number3) Called Party Name: Called party's name

4) Terminating Number: Called party's phone number

5) Date: Date of call
6) Time: Time of call

7) Filename: Filename of audio file

V. Video Files

Video files must be produced in a format that is playable using Microsoft Windows Media PlayerTM.

VI. Electronic Trade and Bank Records

When producing electronic trade records, bank records, or financial statements, provide the files in one of the following formats:

- 1. MS Excel spreadsheet with header information detailing the field structure. If any special codes exist in the dataset, a separate document must be provided that details all such codes. If details of the field structure do not fit in the header, a separate document must be provided that includes such details.
- 2. Delimited text file with header information detailing the field structure. The preferred delimiter is a vertical bar "|". If any special codes exist in the dataset, a separate document must be provided that details all such codes. If details of the field structure do not fit in the header, a separate document must be provided that includes such details.

VII. Electronic Phone Records

When producing an MS Excel spreadsheet for electronic phone records, provide the files in the following format:

- 1. MS Excel spreadsheet with header information detailing the field structure. If any special codes exist in the dataset, a separate document must be provided that details all such codes. If details of the field structure do not fit in the header, a separate document must be provided that includes such details. Data must be formatted in its native format (i.e. dates in a date format, numbers in an appropriate numerical format, and numbers with leading zeroes as text).
 - a. The metadata that must be included is outlined in **Addendum B** of this document. Each field of data must be loaded into a separate column. For example, Date and Start_Time must be produced in separate columns and not combined into a single column containing both pieces of information. Any fields of data that are provided in addition to those listed in **Addendum B** must also be loaded into separate columns.

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Data Delivery Standards

VIII. Audit Workpapers

The SEC prefers for workpapers to be produced in two formats: (1) With Bates numbers in accordance with the SEC Data Delivery Standards; and (2) in native format via laptop computer, web-based viewing platform, or otherwise, allowing for viewing in the same format and organization as the firm's audit team. Prior to production of workpapers via laptop computer or web-based viewing platform, audit firms should contact the requesting SEC staff member for additional information and written agreements addressing use of software, access, and viewing protocols.

IX. Mobile Device Data

Before producing any mobile device data (including but not limited to text messages and application data) parties should reach out to the requesting SEC staff member in order to discuss the appropriate production format. Productions containing chat data from applications must be identified at the time of production and the following information must be provided to the requesting SEC staff member and the SEC Centralized Production Unit: chat application, chat data format, and how the length of a chat is determined (i.e. set duration of time, number of minutes without messages, etc.)

ADDENDUM A

The metadata of electronic document collections should be extracted and provided in a .DAT file using the field definition and formatting described below:

Field Name Sample Data Description FIRSTBATES EDC0000001 First Bates number of native file documents. LASTBATES EDC0000001 Last Bates number of native file documents.	
	ent/email
	ent/email
**The LASTBATES field should be po	opulated
for single page documents/emails.	
ATTACHRANGE EDC0000001 - EDC0000015 Bates number of the first page of	f the parent
document to the Bates number of the la	ast page of the
last attachment "child" document	
BEGATTACH EDC0000001 First Bates number of attachment range	
ENDATTACH EDC0000015 Last Bates number of attachment range	
PARENT_BATES EDC0000001 First Bates number of parent document/	
**This PARENT_BATES field should	
in each record representing an attack	hment "child"
document	
CHILD_BATES EDC0000002; EDC0000014 First Bates number of "child" attachmo	
more than one Bates number listed dep	pending on the
number of attachments	, , , , ,
**The CHILD_BATES field should be	
cach record representing a "parent" de	
CUSTODIAN Smith, John Email: Mailbox where the email reside	
Native: Name of the individual or de	pariment from
whose files the document originated	
FROM John Smith Email: Sender	
Native: Author(s) of document	
**semi-colon should be used to separat	te multiple
TO Coffman, Janice: LeeW Recipient(s)	
	4
[mailto:LeeW@MSN.com] **semi-colon should be used to separate entries	te multiple
CC Frank Thompson [mailto: Carbon copy recipient(s)	
frank_Thompson@cdt.com]	to multiple
entries	ic munipic
BCC John Cain Blind carbon copy recipient(s)	
**semi-colon should be used to separat	te multiple
entries	te manapie
SUBJECT Board Meeting Minutes Email: Subject line of the email	
Native: Title of document (if available)	
FILE_NAME BoardMeetingMinutes.docx Native: Name of the original native	file, including
extension	
DATE_SENT 10/12/2010 Email: Date the email was sent	
Native: (empty)	
TIME SENT/TIME 07:05 PM GMT Email: Time the email was sent/ Time	zone in which
ZONE the emails were standardized during co	
Native: (empty)	
**This data must be a separate field and	d cannot be
combined with the DATE_SENT field	
TIME_ZONE GMT The time zone in which the emails wer	re standardized
during conversion.	
Email: Time zone	
Native: (empty)	

LINK	D:\001\EDC0000001.msg	Hyperlink to the email or native file document **The linked file must be named per the FIRSTBATES number	
MIME_TYPE	application/msword	The content type of an email or native file document as identified/extracted from the header	
FILE_EXTEN	MSG	The file type extension representing the email or native file document; will vary depending on the format	
AUTHOR	John Smith	Email: (empty) Native: Author of the document	
LAST_AUTHOR	Jane Doe	Email: (empty) Native: Last Author of the document	
DATE_CREATED	10/10/2010	Email: (empty) Native: Date the document was created	
TIME_CREATED/T IME_ZONE	10:25 AM GMT	Email: (empty) Native: Time the document was created including time zone **This data must be a separate field and cannot be combined with the DATE_CREATED field	
DATE_MOD	10/12/2010	Email: (empty) Native: Date the document was last modified	
TIME_MOD/TIME_ ZONE	07:00 PM GMT	Email: (empty) Native: Time the document was last modified including the time zone **This data must be a separate field and cannot be combined with the DATE_MOD field	
DATE_ACCESSD	10/12/2010	Email: (empty) Native: Date the document was last accessed	
TIME_ACCESSD/T IME_ZONE	07:00 PM GMT	Email: (empty) Native: Time the document was last accessed including the time zone **This data must be a separate field and cannot be combined with the DATE_ACCESSD field	
PRINTED_DATE	10/12/2010	Email: (empty) Native: Date the document was last printed	
FILE_SIZE	5,952	Size of native file document/email in KB	
PGCOUNT	1	Number of pages in native file document/email	
PATH	J:\Shared\SmithJ\October Agenda.doc	Email: (empty) Native: Path where native file document was stored including original file name.	
INTFILEPATH	Personal Folders\Deleted Items\Board Meeting Minutes.msg	Email: original location of email including original file name. Native: (empty)	
INTMSGID	<000805c2c71bS75977050Scb 8306d1@MSN>	Email: Unique Message ID Native: (empty)	

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HEADER	Return-Path: <example_from@dc.edu> X-SpamCatcher-Score:1[X] Received:from[136.167.40.119] (HELO dc.edu) by fe3.dc.edu (CommuniGate Pro SMTP4.1.8) with ESMTP-TLS id 61258719 for example_to@mail.dc.edu; Mon, 23 Aug 2004 11:40:10 - 0400 Message-ID: <<4129F3CA.2020509@dc.edu> Date: Mon, 23 Aug 2005 11:40:36 -400 From: Taylor Evans <example_from@dc.edu> User-Agent:Mozilla/5.0 (Windows;U; Windows NT 5.1: en-US;rv:1.0.1) Gecko/20020823 Netscape/7.0 X-Accept-Language:en-us,en MIME-Version:1.0 To: Jon Smith <example_to@mail.dc.edu> Subject:Business Development Meeting Content-Type: text/plain;charset=us-ascii; format=flowed Content-Transfer-Encoding:7bit</example_to@mail.dc.edu></example_from@dc.edu></example_from@dc.edu>	
SHA256	AD6128C5CA40164AF71A1E FC800E12D2F195CE07BB5F8 C813B0888A2DDE6A06F	SHA-256 hash value of the document.
OCRPATH	TEXT/001/EDC0000001.txt	Path to extracted text of the native file

Sample Image Cross-Reference File:

IMG0000001,,E:\001\IMG0000001.TIF,Y,,,
IMG0000002,,E:\001\IMG0000002.TIF,,,,
IMG0000003,,E:\001\IMG0000003.TIF,,,,
IMG0000004,,E:\001\IMG0000005.TIF,Y,,,
IMG0000005,,E:\001\IMG0000005.TIF,Y,,,
IMG0000006,,E:\001\IMG0000006.TIF,,,,,

ADDENDUM B

For Electronic Phone Records, include the following fields in separate columns:

For Calls:

- 1) Account Number
- 2) Connection Date Date the call was received or made
- 3) Connection Time Time call was received or made
- 4) Seizure Time Time it took for the call to be placed in seconds
- 5) Originating Number Phone that placed the call
- 6) Terminating Number Phone that received the call
- 7) Elapsed Time The length of time the call lasted, preferably in seconds
- 8) End Time The time the call ended
- 9) Number Dialed Actual number dialed
- 10) IMEI Originating Unique id to phone used to make call
- 11) IMEI Terminating-Unique id to phone used to receive call
- 12) IMSI Originating Unique id to phone used to make call
- 13) IMSI Terminating- Unique id to phone used to receive call
- 14) Call Codes Identify call direction or other routing information
- 15) Time Zone Time Zone in which the call was received or placed, if applicable

For Text messages:

- 1) Account Number
- 2) Connection Date Date the text was received or made
- 3) Connection Time Time text was received or made
- 4) Originating Number Who placed the text
- 5) Terminating Number Who received the text
- 6) IMEI Originating Unique id to phone used to make text
- 7) IMEI Terminating—Unique id to phone used to receive text
- 8) IMSI Originating Unique id to phone used to make text
- 9) IMSI Terminating- Unique id to phone used to receive text
- 10) Text Code Identify text direction, or other text routing information
- 11) Text Type Code Type of text message (sent SMS, MMS, or other)
- 12) Time Zone Time Zone in which the call was received or placed, if applicable

For Mobile Data Usage:

- 1) Account Number
- Connection Date Date the data was received or made
- 3) Connection Time Time data was received or made
- 4) Originating number Number that used data
- 5) IMEI Originating Unique id of phone that used data
- 6) IMSI Originating Unique id of phone that used data
- 7) Data or Data codes Identify data direction, or other data routing information
- 8) Time Zone Time Zone in which the call was received or placed, if applicable

SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549

Supplemental Information for Persons Requested to Supply Information Voluntarily or Directed to Supply Information Pursuant to a Commission Subpoena

A. False Statements and Documents

Section 1001 of Title 18 of the United States Code provides that fines and terms of imprisonment may be imposed upon:

[W]hoever, in any matter within the jurisdiction of the executive, legislative, or judicial branch of the Government of the United States, knowingly and willfully--

- (1) falsifies, conceals, or covers up by any trick, scheme, or device a material fact;
- (2) makes any materially false, fictitious, or fraudulent statement or representation; or
- (3) makes or uses any false writing or document knowing the same to contain any materially false, fictitious, or fraudulent statement or entry.

Section 1519 of Title 18 of the United States Code provides that fines and terms of imprisonment may be imposed upon:

Whoever knowingly alters, destroys, mutilates, conceals, covers up, falsifies, or makes a false entry in any record, document, or tangible object with the intent to impede, obstruct, or influence the investigation or proper administration of any matter within the jurisdiction of any department or agency of the United States . . ., or in relation to or contemplation of any such matter.

B. Testimony

If your testimony is taken, you should be aware of the following:

- 1. Record. Your testimony will be transcribed by a reporter. If you desire to go off the record, please indicate this to the Commission employee taking your testimony, who will determine whether to grant your request. The reporter will not go off the record at your, or your counsel's, direction.
- 2. Counsel. You have the right to be accompanied, represented and advised by counsel of your choice. Your counsel may advise you before, during and after your testimony; question you briefly at the conclusion of your testimony to clarify any of the answers you give during testimony; and make summary notes during your testimony solely for your use. If you are accompanied by counsel, you may consult privately.

If you are not accompanied by counsel, please advise the Commission employee taking your testimony if, during the testimony, you desire to be accompanied, represented and advised by counsel. Your testimony will be adjourned once to afford you the opportunity to arrange to be so accompanied, represented or advised.

You may be represented by counsel who also represents other persons involved in the Commission's investigation. This multiple representation, however, presents a potential conflict of interest if one client's interests are or may be adverse to another's. If you are represented by counsel who also represents other persons involved in the investigation, the Commission will assume that you and counsel have discussed and resolved all issues concerning possible conflicts of interest. The choice of counsel, and the responsibility for that choice, is yours.

3. Transcript Availability. Rule 6 of the Commission's Rules Relating to Investigations, 17 CFR 203.6, states:

A person who has submitted documentary evidence or testimony in a formal investigative proceeding shall be entitled, upon written request, to procure a copy of his documentary evidence or a transcript of his testimony on payment of the appropriate fees: *Provided, however*, That in a nonpublic formal investigative proceeding the Commission may for good cause deny such request. In any event, any witness, upon proper identification, shall have the right to inspect the official transcript of the witness' own testimony.

If you wish to purchase a copy of the transcript of your testimony, the reporter will provide you with a copy of the appropriate form. Persons requested to supply information voluntarily will be allowed the rights provided by this rule.

4. *Perjury.* Section 1621 of Title 18 of the United States Code provides that fines and terms of imprisonment may be imposed upon:

Whoever--

(1) having taken an oath before a competent tribunal, officer, or person, in any case in which a law of the United States authorizes an oath to be administered, that he will testify, declare,

depose, or certify truly, or that any written testimony, declaration, deposition, or certificate by him subscribed, is true, willfully and contrary to such oath states or subscribes any material matter which he does not believe to be true; or

- (2) in any declaration, certificate, verification, or statement under penalty of perjury as permitted under section 1746 of title 28, United States Code, willfully subscribes as true any material matter which he does not believe to be true.
- 5. Fifth Amendment and Voluntary Testimony. Information you give may be used against you in any federal, state, local or foreign administrative, civil or criminal proceeding brought by the Commission or any other agency.

You may refuse, in accordance with the rights guaranteed to you by the Fifth Amendment to the Constitution of the United States, to give any information that may tend to incriminate you.

If your testimony is not pursuant to subpoena, your appearance to testify is voluntary, you need not answer any question, and you may leave whenever you wish. Your cooperation is, however, appreciated.

6. Formal Order Availability. If the Commission has issued a formal order of investigation, it will be shown to you during your testimony, at your request. If you desire a copy of the formal order, please make your request in writing.

C. Submissions and Settlements

Rule 5(c) of the Commission's Rules on Informal and Other Procedures, 17 CFR 202.5(c), states:

Persons who become involved in . . . investigations may, on their own initiative, submit a written statement to the Commission setting forth their interests and position in regard to the subject matter of the investigation. Upon request, the staff, in its discretion, may advise such persons of the general nature of the investigation, including the indicated violations as they pertain to them, and the amount of time that may be available for preparing and submitting a statement prior to the presentation of a staff recommendation to the Commission for the commencement of an administrative or injunction proceeding. Submissions by interested persons should be forwarded to the appropriate Division Director or Regional Director with a copy to the staff members conducting the investigation and should be clearly referenced to the specific investigation to which they relate. In the event a recommendation for the commencement of an enforcement proceeding is presented by the staff, any submissions by interested persons will be forwarded to the Commission in conjunction with the staff memorandum.

The staff of the Commission routinely seeks to introduce submissions made pursuant to Rule 5(c) as evidence in Commission enforcement proceedings, when the staff deems appropriate.

Rule 5(f) of the Commission's Rules on Informal and Other Procedures, 17 CFR 202.5(f), states:

In the course of the Commission's investigations, civil lawsuits, and administrative proceedings, the staff, with appropriate authorization, may discuss with persons involved the disposition of such matters by consent, by settlement, or in some other manner. It is the policy of the Commission, however, that the disposition of any such matter may not, expressly or impliedly, extend to any criminal charges that have been, or may be, brought against any such person or any recommendation with respect thereto. Accordingly, any person involved in an enforcement matter before the Commission who consents, or agrees to consent, to any judgment or order does so solely for the purpose of resolving the claims against him in that investigative, civil, or administrative matter and not for the purpose of resolving any criminal charges that have been, or might be, brought against him. This policy reflects the fact that neither the Commission nor its staff has the authority or responsibility for instituting, conducting, settling, or otherwise disposing of criminal proceedings. That authority and responsibility are vested in the Attorney General and representatives of the Department of Justice.

D. Freedom of Information Act

The Freedom of Information Act, 5 U.S.C. 552 (the "FOIA"), generally provides for disclosure of information to the public. Rule 83 of the Commission's Rules on Information and Requests, 17 CFR 200.83, provides a procedure by which a person can make a written request that information submitted to the Commission not be disclosed under the FOIA. That rule states that no determination as to the validity of such a request will be made until a request for disclosure of the information under the FOIA is received. Accordingly, no response to a request that information not be disclosed under the FOIA is necessary or will be given until a request for disclosure under the FOIA is received. If you desire an acknowledgment of receipt of your written request that information not be disclosed under the FOIA, please provide a duplicate request, together with a stamped, self-addressed envelope.

E. Authority for Solicitation of Information

Persons Directed to Supply Information Pursuant to Subpoena. The authority for requiring production of information is set forth in the subpoena. Disclosure of the information to the Commission is mandatory, subject to the valid assertion of any legal right or privilege you might have.

Persons Requested to Supply Information Voluntarily. One or more of the following provisions authorizes the Commission to solicit the information requested: Sections 19 and/or 20 of the Securities Act of 1933; Section 21 of the Securities Exchange Act of 1934; Section 321 of the Trust Indenture Act of 1939; Section 42 of the Investment Company Act of 1940; Section 209 of the Investment Advisers Act of 1940; and 17 CFR 202.5. Disclosure of the requested information to the Commission is voluntary on your part.

F. Effect of Not Supplying Information

Persons Directed to Supply Information Pursuant to Subpoena. If you fail to comply with the subpoena, the Commission may seek a court order requiring you to do so. If such an order is obtained and you thereafter fail to supply the information, you may be subject to civil and/or criminal sanctions for contempt of court. In addition, Section 21(c) of the Securities Exchange Act of 1934, Section 42(c) of the Investment Company Act of 1940, and Section 209(c) of the Investment Advisers Act of 1940 provide that fines and terms of imprisonment may be imposed upon any person who shall, without just cause, fail or refuse to attend and testify or to answer any lawful inquiry, or to produce books, papers, correspondence, memoranda, and other records in compliance with the subpoena.

Persons Requested to Supply Information Voluntarily. There are no direct sanctions and thus no direct effects for failing to provide all or any part of the requested information.

G. Principal Uses of Information

The Commission's principal purpose in soliciting the information is to gather facts in order to determine whether any person has violated, is violating, or is about to violate any provision of the federal securities laws or rules for which the Commission has enforcement authority, such as rules of securities exchanges and the rules of the Municipal Securities Rulemaking Board. Facts developed may, however, constitute violations of other laws or rules. Information provided may be used in Commission and other agency enforcement proceedings. Unless the Commission or its staff explicitly agrees to the contrary in writing, you should not assume that the Commission or its staff acquiesces in, accedes to, or concurs or agrees with, any position, condition, request, reservation of right, understanding, or any other statement that purports, or may be deemed, to be or to reflect a limitation upon the Commission's receipt, use, disposition, transfer, or retention, in accordance with applicable law, of information provided.

H. Routine Uses of Information

The Commission often makes its files available to other governmental agencies, particularly United States Attorneys and state prosecutors. There is a likelihood that information supplied by you will be made available to such agencies where appropriate. Whether or not the Commission makes its files available to other governmental agencies is, in general, a confidential matter between the Commission and such other governmental agencies.

Set forth below is a list of the routine uses which may be made of the information furnished.

- 1. To appropriate agencies, entities, and persons when (1) the SEC suspects or has confirmed that there has been a breach of the system of records, (2) the SEC has determined that as a result of the suspected or confirmed breach there is a risk of harm to individuals, the SEC (including its information systems, programs, and operations), the Federal Government, or national security; and (3) the disclosure made to such agencies, entities, and persons is reasonably necessary to assist in connection with the SEC's efforts to respond to the suspected or confirmed breach or to prevent, minimize, or remedy such harm.
- 2. To other Federal, state, local, or foreign law enforcement agencies; securities self-regulatory organizations; and foreign financial regulatory authorities to assist in or coordinate regulatory or law enforcement activities with the SEC.
- 3. To national securities exchanges and national securities associations that are registered with the SEC, the Municipal Securities Rulemaking Board; the Securities Investor Protection Corporation; the Public Company Accounting Oversight Board; the Federal banking authorities, including, but not limited to, the Board of Governors of the Federal Reserve System, the Comptroller of the Currency, and the Federal Deposit Insurance Corporation; state securities regulatory agencies or organizations; or regulatory authorities of a foreign government in connection with their regulatory or enforcement responsibilities.
- 4. By SEC personnel for purposes of investigating possible violations of, or to conduct investigations authorized by, the Federal securities laws.
- 5. In any proceeding where the Federal securities laws are in issue or in which the Commission, or past or present members of its staff, is a party or otherwise involved in an official capacity.
- 6. In connection with proceedings by the Commission pursuant to Rule 102(e) of its Rules of Practice, 17 CFR 201.102(e).

- 7. To a bar association, state accountancy board, or other Federal, state, local, or foreign licensing or oversight authority; or professional association or self-regulatory authority to the extent that it performs similar functions (including the Public Company Accounting Oversight Board) for investigations or possible disciplinary action.
- 8. To a Federal, state, local, tribal, foreign, or international agency, if necessary to obtain information relevant to the SEC's decision concerning the hiring or retention of an employee; the issuance of a security clearance; the letting of a contract; or the issuance of a license, grant, or other benefit.
- 9. To a Federal, state, local, tribal, foreign, or international agency in response to its request for information concerning the hiring or retention of an employee; the issuance of a security clearance; the reporting of an investigation of an employee; the letting of a contract; or the issuance of a license, grant, or other benefit by the requesting agency, to the extent that the information is relevant and necessary to the requesting agency's decision on the matter.
- 10. To produce summary descriptive statistics and analytical studies, as a data source for management information, in support of the function for which the records are collected and maintained or for related personnel management functions or manpower studies; may also be used to respond to general requests for statistical information (without personal identification of individuals) under the Freedom of Information Act.
- 11. To any trustee, receiver, master, special counsel, or other individual or entity that is appointed by a court of competent jurisdiction, or as a result of an agreement between the parties in connection with litigation or administrative proceedings involving allegations of violations of the Federal securities laws (as defined in section 3(a)(47) of the Securities Exchange Act of 1934, 15 U.S.C. 78c(a)(47)) or pursuant to the Commission's Rules of Practice, 17 CFR 201.100 through 900 or the Commission's Rules of Fair Fund and Disgorgement Plans, 17 CFR 201.1100 through 1106, or otherwise, where such trustee, receiver, master, special counsel, or other individual or entity is specifically designated to perform particular functions with respect to, or as a result of, the pending action or proceeding or in connection with the administration and enforcement by the Commission of the Federal securities laws or the Commission's Rules of Practice or the Rules of Fair Fund and Disgorgement Plans.
- 12. To any persons during the course of any inquiry, examination, or investigation conducted by the SEC's staff, or in connection with civil litigation, if the staff has reason to believe that the person to whom the record is disclosed may have further information about the matters related therein, and those matters appeared to be relevant at the time to the subject matter of the inquiry.
- 13. To interns, grantees, experts, contractors, and others who have been engaged by the Commission to assist in the performance of a service related to this system of records and who need access to the records for the purpose of assisting the Commission in the efficient administration of its programs, including by performing clerical, stenographic, or data analysis functions, or by reproduction of records by electronic or other means. Recipients of these records shall be required to comply with the requirements of the Privacy Act of 1974, as amended, 5 U.S.C.
- 14. In reports published by the Commission pursuant to authority granted in the Federal securities laws (as such term is defined in section 3(a)(47) of the Securities Exchange Act of 1934, 15 U.S.C. 78c(a)(47)), which authority shall include, but not be limited to, section 21(a) of the Securities Exchange Act of 1934, 15 U.S.C. 78u(a)).
- 15. To members of advisory committees that are created by the Commission or by Congress to render advice and recommendations to the Commission or to Congress, to be used solely in connection with their official designated functions.
- 16. To any person who is or has agreed to be subject to the Commission's Rules of Conduct, 17 CFR 200.735-1 through 200.735-18, and who assists in the investigation by the Commission of possible violations of the Federal securities laws (as such term is defined in section 3(a)(47) of the Securities Exchange Act of 1934, 15 U.S.C. 78c(a)(47)), in the preparation or conduct of enforcement actions brought by the Commission for such violations, or otherwise in connection with the Commission's enforcement or regulatory functions under the Federal securities laws.
- 17. To a Congressional office from the record of an individual in response to an inquiry from the Congressional office made at the request of that individual.
- 18. To members of Congress, the press, and the public in response to inquiries relating to particular Registrants and their activities, and other matters under the Commission's jurisdiction.
- 19. To prepare and publish information relating to violations of the Federal securities laws as provided in 15 U.S.C. 78c(a)(47)), as amended.
- 20. To respond to subpoenas in any litigation or other proceeding.
- 21. To a trustee in bankruptcy.
- 22. To any governmental agency, governmental or private collection agent, consumer reporting agency or commercial reporting agency, governmental or private employer of a debtor, or any other person, for collection,

including collection by administrative offset, Federal salary offset, tax refund offset, or administrative wage garnishment, of amounts owed as a result of Commission civil or administrative proceedings.

23. To another Federal agency or Federal entity, when the SEC determines that information from this system of records is reasonably necessary to assist the recipient agency or entity in (1) responding to a suspected or confirmed breach or (2) preventing, minimizing, or remedying the risk of harm to individuals, the recipient agency or entity (including its information systems, programs, and operations), the Federal Government, or national security, resulting from a suspected or confirmed breach.

Page 550 of 933

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Small Business Owners: The SEC always welcomes comments on how it can better assist small businesses. If you would like more information, or have questions or comments about federal securities regulations as they affect small businesses, please contact the Office of Small Business Policy, in the SEC's Division of Corporation Finance, at 202-551-3460. If you would prefer to comment to someone outside of the SEC, you can contact the Small Business Regulatory Enforcement Ombudsman at http://www.sba.gov/ombudsman or toll free at 888-REG-FAIR. The Ombudsman's office receives comments from small businesses and annually evaluates federal agency enforcement activities for their responsiveness to the special needs of small business.



UNITED STATES SECURITIES AND EXCHANGE COMMISSION

100 PEARL STREET, SUITE 20-100 NEW YORK, NY 10004-2616

DIVISION OF ENFORCEMENT

March 14, 2024

VIA UPS and email contact@protocol.ai Protocol Labs, Inc. 548 Market Street Suite 51207 San Francisco, CA 94104

Re: <u>C-08950</u>

To Whom It May Concern:

The enclosed subpoena has been issued pursuant to a formal order entered by the United States Securities and Exchange Commission. Pursuant to Rule 8 of the United States Securities and Exchange Commission's Rules Relating to Investigations, 17 C.F.R. § 203.8, I have enclosed a subpoena for documents issued to Protocol Labs, Inc. ("Protocol Labs") in connection with the above-referenced investigation.

This is a federal civil law enforcement investigation and you must produce all documents described in the attached subpoena. The enclosed subpoena requires Protocol Labs to produce documents to the SEC by March 28, 2024 to:

ENF-CPU U.S. Securities and Exchange Commission 14420 Albemarle Point Place, Suite 102 Chantilly, VA 20151-1750

For smaller electronic productions under 10MB in size, the materials may be emailed to the following email address: <u>ENF-CPU@sec.gov</u>.

Please carefully read the subpoena attachment, which contains, among other things, important instructions related to the manner of producing documents. In particular, if Protocol Labs prefers to send us copies of original documents, **the staff requests that you scan and**

produce hard copy documents, as well as electronic documents, in an electronic format consistent with the SEC Data Delivery Standards attached hereto. All electronic documents responsive to the subpoena, including all metadata, should also be produced in their native software format. If you have any questions concerning the production of documents in an electronic format, please contact me as soon as possible and in any event before producing documents. For security reasons, we strongly encourage the encryption of sensitive documents before production.

When producing the records, please consecutively number and mark each document produced with a symbol that identifies it as being produced by Protocol Labs and provide an index which briefly identifies the documents produced.

In your cover letter(s) accompanying the production of responsive documents, please enclose a list briefly describing each item you send. The list should identify the paragraph(s) in the subpoena attachment to which each item responds. Please also state in the cover letter(s) whether you believe Protocol Labs has met the obligations of the subpoena by searching carefully and thoroughly for everything called for by the subpoena and sending it all to us.

A copy of the subpoena should be included with the documents that are produced. Correspondence should reference case number and requesting SEC staff member.

Passwords for documents, files, compressed archives, and encrypted media should be provided separately either via email addressed to ENF-CPU@scc.gov, or in a separate cover letter mailed separately from the data. Password correspondence should reference case number and requesting SEC staff member.

In addition, for any documents that qualify as records of regularly conducted activities under Federal Rule of Evidence 902(11), please have the appropriate representative(s) of Protocol Labs complete a business records certification (a sample of which is enclosed) and return it with the document production. Execution of this certification may allow the Commission to introduce the documents provided by Protocol Labs in any subsequent judicial proceeding, without requiring the testimony of a records custodian.

Enclosed is a copy of the Commission's Form 1662, entitled "Supplemental Information for Persons Requested to Supply Information Voluntarily or Directed to Supply Information Pursuant to a Commission Subpoena." This form explains how we may use the information which Protocol Labs provides to the Commission and has other important information. Please provide a copy of this form to Protocol Labs.

This investigation is a non-public, fact-finding inquiry. We are trying to determine whether there have been any violations of the federal securities laws. The investigation does not mean that we have concluded that anyone has violated the law. Also, the investigation does not mean that we have a negative opinion of any person, entity, or security.

If you have any questions or would like to discuss this matter, you may contact me at $\widehat{\mathbb{C}^{(b)(6)}}$: $\widehat{\mathbb{C}}$: $\widehat{\mathbb{C}$: $\widehat{\mathbb{C}}$: $\widehat{\mathbb{C}}$: $\widehat{\mathbb{C}}$: $\widehat{\mathbb{C}}$: $\widehat{\mathbb{C}}$: $\widehat{\mathbb{C}$: $\widehat{\mathbb{C}}$: $\widehat{\mathbb{C}$: $\widehat{\mathbb{C}}$: $\widehat{\mathbb{C}}$: $\widehat{\mathbb{C}}$: $\widehat{\mathbb{C}}$: $\widehat{\mathbb{C}}$: $\widehat{\mathbb{C$

Sincerely,	
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	Enforcement
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Enclosures: Subpoena and Attachment

Business Records Certification SEC Data Delivery Standards

SEC Form 1662



SUBPOENA

UNITED STATES OF AMERICA SECURITIES AND EXCHANGE COMMISSION

C-08950

To: Protocol Labs, Inc.
548 Market Street
Suite 51207
San Francisco, CA 94104

YOU MUST PRODUCE everything specified in the Attachment to this subpoena to officers of the Securities and Exchange Commission, at the place, date and time specified below:

ENF-CPU, U.S. Securities and Exchange Commission, 14420 Albemarle Point Place, Suite 102 Chantilly, VA 20151-1750, no later than March 28, 2024.

☐ YOU MUST TESTIFY before officers of the Securities and Exchange Commission, at the place, date and time specified below:

FEDERAL LAW REQUIRES YOU TO COMPLY WITH THIS SUBPOENA.

If you do not comply with this subpoena, the SEC may bring an action in Federal Court to enforce this subpoena. Failure to comply with a court order enforcing this subpoena may result in the court imposing a fine, imprisonment, or both.

By: (b)(6); (b)(7)(C) Date: March 14, 2024

U.S. Securities and Exchange Commission New York Regional Office 100 Pearl Street, Suite 20-100 New York, NY 10004-2616

I am an officer of the U.S. Securities and Exchange Commission authorized to issue subpoenas in this matter. The Securities and Exchange Commission has issued a formal order authorizing this investigation under Section 20(a) of the Securities Act of 1933.

NOTICE TO WITNESS: If you claim a witness fee or mileage, submit this subpoena with the claim voucher.

SUBPOENA ATTACHMENT FOR PROTOCOL LABS, INC.

C-08950

March 14, 2024

Definitions

As used in this subpoena, the words and phrases listed below shall have the following meanings:

- 1. "Relevant Period" means July 1, 2018 to the present.
- 2. "Protocol Labs" means the entity doing business under the name Protocol Labs, Inc. including parents, subsidiaries, affiliates, predecessors, successors, officers, directors, employees, agents, general partners, limited partners, partnerships and aliases, code names, or trade or business names used by any of the foregoing.
- 3. "Vulcanize" means the entity doing business under the name Vulcanize, Inc. including parents, subsidiaries, affiliates, predecessors, successors, officers, directors, employees, agents, general partners, limited partners, partnerships and aliases, code names, or trade or business names used by any of the foregoing.
- 4. The "Ethereum Foundation" means the entity or business doing business under the name Ethereum Foundation, including, but not limited to, ethereum.org, the Ethereum Support Program, and parents, subsidiaries, affiliates, predecessors, successors, officers, directors, employees, agents, general partners, limited partners, partnerships and aliases, owners, code names, or trade or business names used by any of the foregoing.
- 5. "The Merge" or "Ethereum 2.0" means the transition by the Ethereum blockchain of its consensus mechanism from proof-of-work to proof-of-stake.
- 6. "Beacon Chain" means the original proof-of-stake blockchain that was launched in 2020 that ran alongside the original proof-of-work Ethereum blockchain.
- "Document" shall include, but is not limited to, any written, printed, or typed matter including, but not limited to all drafts and copies bearing notations or marks not found in the original, letters and correspondence, interoffice communications, slips, tickets, records, worksheets, financial records, accounting documents, bookkeeping documents, memoranda, reports, manuals, telephone logs, facsimiles, messages of any type, telephone messages, text messages, voice mails, tape recordings, notices, instructions, minutes, summaries, notes of meetings, file folder markings, and any other organizational indicia, purchase orders, information recorded by photographic process, including microfilm and microfiche, computer printouts, spreadsheets, and other electronically stored information, including writings, drawings, graphs, charts, photographs, sound recordings, images, and other data or data compilations that are stored in any medium from which information can be retrieved, obtained, manipulated, or translated.

- 8. "Communication" means any correspondence, contact, discussion, e-mail, instant message, or any other kind of oral or written exchange or transmission of information (in the form of facts, ideas, inquiries, or otherwise), including but not limited to those made on Social Media Services, and any response thereto between two or more Persons or entities, including, without limitation, all telephone conversations, face-to-face meetings or conversations, internal or external discussions, or exchanges of a Document or Documents.
- 9. "Concerning" means directly or indirectly, in whole or in part, describing, constituting, evidencing, recording, evaluating, substantiating, concerning, referring to, alluding to, in connection with, commenting on, relating to, regarding, discussing, showing, analyzing or reflecting.
- 10. "Agreement" means any actual or contemplated (i) written or oral Agreement; (ii) term or provision of such Agreement; or (iii) amendment of any nature or termination of such Agreement. A request for any Agreement among or between specified parties includes a request for all Documents Concerning (i) any actual or contemplated Agreement among or between such parties, whether or not such Agreement included any other Person; (ii) the drafting or negotiation of any such Agreement; (iii) any actual or contemplated demand, request or application for any such Agreement, and any response thereto; and (iv) any actual or contemplated objection or refusal to enter into any such Agreement, and any response thereto.
- 11. "Bank or Financial Account" means the domestic or foreign bank, brokerage, or financial accounts held, controlled, or used by you or by other people on your behalf. This includes, but is not limited to, accounts that contain currency, securities, or crypto assets.
- 12. "Person" means a natural person, firm, association, organization, partnership, business, trust, corporation, bank or any other private or public entity.
- 13. The term "you" and "your" means the Person to whom or entity to which this subpoena was issued.
- 14. To the extent necessary to bring within the scope of this this subpoena any information or Documents that might otherwise be construed to be outside its scope:
 - a. the word "or" means "and/or";
 - b. the word "and" means "and/or";
 - c. the functional words "each," "every" "any" and "all" shall each be deemed to include each of the other functional words;
 - d. the masculine gender includes the female gender and the female gender includes the masculine gender; and
 - e. the singular includes the plural and the plural includes the singular.

Instructions

- 1. Unless otherwise specified, this subpoena calls for production of the original Documents and all copies and drafts of same. Documents responsive to this subpoena may be in electronic or paper form. Electronic Documents such as email should be produced in accordance with the attached Document entitled SEC Data Delivery Standards. All responsive electronic Documents, including all metadata, should also be produced in their native software format.
- 2. For Documents in paper format, you may send the originals, or, if you prefer, you may send copies of the originals. The Commission cannot reimburse you for the copying costs. If you are sending copies, the staff requests that you scan (rather than photocopy) hard copy Documents and produce them in an electronic format consistent with the SEC Data Delivery Standards. Alternatively, you may send us photocopies of the Documents in paper format. If you choose to send copies, you <u>must</u> secure and retain the originals and store them in a safe place. The staff may later request or require that you produce the originals.
- 3. Whether you scan or photocopy Documents, the copies must be identical to the originals, including even faint marks or print. Also, please note that if copies of a Document differ in any way, they are considered separate Documents and you must send each one. For example, if you have two copies of the same letter, but only one of them has handwritten notes on it, you must send both the clean copy and the one with notes.
- 4. In producing a photocopy of an original Document that contains post-it(s), notation flag(s), or other removable markings or attachments which may conceal all or a portion of the markings contained in the original Document, photocopies of the original Document both with and without the relevant post-it(s), notation flag(s), or removable markings or attachments should be produced.
- 5. Documents should be produced as they are kept in the ordinary course of business or be organized and labeled to correspond with the categories in this request. In that regard, Documents should be produced in a unitized manner, i.e., delineated with staples or paper clips to identify the Document boundaries.
- 6. Documents should be labeled with sequential numbering (bates-stamped).
- 7. The scope of any given request should not be limited or narrowed on the basis that it calls for Documents that are responsive to another request.
- 8. This subpoena covers all Documents in or subject to your possession, custody or control, including all Documents that are not in your immediate possession but that you have the effective ability to obtain, that are responsive, in whole or in part, to any of the individual requests set forth below. If, for any reason including a claim of attorney-client privilege you do not produce something called for by the request, you should submit a list of what you are not producing. The list should describe each item separately, noting:

- a. its author(s);
- b. its date;
- c. its subject matter;
- d. the name of the Person who has the item now, or the last Person known to have it;
- e. the names of everyone who ever had the item or a copy of it, and the names of everyone who was told the item's contents;
- f. the basis upon which you are not producing the responsive Document;
- g. the specific request in the subpoena to which the Document relates;
- h. the attorney(s) and the client(s) involved; and
- i. in the case of the work product doctrine, the litigation for which the Document was prepared in anticipation.
- 9. If Documents responsive to this subpoena no longer exist because they have been lost, discarded, or otherwise destroyed, you should identify such Documents and give the date on which they were lost, discarded, or destroyed.

Documents to be Immediately Preserved and Produced

- 1. All Agreements between Protocol Labs and Vulcanize;
- 2. All Agreements between Protocol Labs and the Ethereum Foundation;
- 3. All Documents and Communications Concerning any grant or other source of funding for work on or related to the Ethereum blockchain funded, in whole or in part, by Protocol Labs;
- 4. All Documents and Communications concerning any work conducted pursuant to any grant or other source of funding identified in Request 3.
- 5. Documents sufficient to identify Protocol Labs' crypto asset wallet addresses or Bank or Financial Accounts, located within or outside the U.S., that distributed any grant or other source of funding for work on or related to the Ethereum blockchain, as well as (a) the recipient and (b) the amount of crypto assets or fiat distributed;
- 6. Documents sufficient to identify all meetings with the Ethereum Foundation, including any Documents related to the meetings identified;
- 7. All Communications with the Ethereum Foundation, including, but not limited to, Communications with board members, consultants, officers, directors, employees, developers, coders, and others performing work on behalf of these entities, related to The Merge or the Beacon Chain.

DECLARATION OF [Insert Name] CERTIFYING RECORDS OF REGULARLY CONDUCTED BUSINESS ACTIVITY

I, the undersigned, [insert name], pursuant to 28 U.S.C. § 1746, declare that:

- 1. I am employed by Protocol Labs, Inc. as [insert position] and by reason of my position am authorized and qualified to make this declaration. [if possible supply additional information as to how person is qualified to make declaration, e.g., I am custodian of records, I am familiar with the company's recordkeeping practices or systems, etc.]
- 2. I further certify that the documents [attached hereto or submitted herewith] and stamped [insert bates range] are true copies of records that were:
 - (a) made at or near the time of the occurrence of the matters set forth therein, by, or from information transmitted by, a person with knowledge of those matters;
 - (b) kept in the course of regularly conducted business activity; and
 - (c) made by the regularly conducted business activity as a regular practice.

I declare under penalty of perjury that the foregoing is true and correct. Executed on [date].

[Name]		



U.S. Securities and Exchange Commission

Data Delivery Standards

This document describes the technical requirements for paper and electronic document productions to the U.S. Securities and Exchange Commission (SEC). **Any questions or proposed file formats other than those described below must be discussed with the legal and technical staff of the SEC Division of Enforcement prior to submission. **

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De	elivery Formats	2
	I. Imaged Productions	3
	I. Imaged Productions	2
	2. Image Cross-Reference File	
	3. Data File	3
	4. Text	
	5. Linked Native Files	
	II. Native File Productions without Load Files	
	III. Adobe PDF File Productions	
	IV. Audio Files V. Video Files	
	VI. Electronic Trade and Bank Records	
	VII. Electronic Phone Records	
	VIII. Audit Workpapers	. 5
	IX. Mobile Device Data	5

General Instructions

Congred Instructions

The current mailing address for all physical productions sent to the SEC is:

ENF-CPU (U.S. Securities & Exchange Commission), 14420 Albemarle Point Place, Suite 102, Chantilly, VA 20151-1750

Electronic files must be produced in their native format, i.e. the format in which they are ordinarily used and maintained during the normal course of business. For example, an MS Excel file must be produced as an MS Excel file rather than an image of a spreadsheet. (Note: An Adobe PDF file is not considered a native file unless the document was initially created as a PDF.)

In the event produced files require the use of proprietary software not commonly found in the workplace, the SEC will explore other format options with the producing party.

The proposed use of file de-duplication methodologies or computer-assisted review or technology-assisted review (TAR) during the processing of documents must be discussed with and approved by the legal and technical staff of the Division of Enforcement (ENF). If your production will be de-duplicated it is vital that you 1) preserve any unique metadata associated with the duplicate files, for example, custodian name and file location and, 2) make that unique metadata part of your production to the SEC.

General requirements for ALL document productions are:

- 1. A cover letter must be included with each production and should include the following information:
 - a. Case number, ease name and requesting SEC staff member name
 - b. A list of each piece of media included in the production with its unique production volume number
 - c. A list of custodians, identifying the Bates range for each custodian
 - d. A list of redacted documents and the redaction reason
 - c. The time zone in which the emails were standardized during conversion
 - f. Whether the production contains native files produced from Mac operating system environments
- Data can be produced on CD, DVD, thumb drive, etc., using the media requiring the least number of deliverables and labeled with the following:
 - a. Case number
 - b. Production date
 - c. Producing party
 - d. Bates range (if applicable)
- All submissions must be organized by custodian unless otherwise instructed.
- 4. All document family groups, i.e. email attachments, embedded files, etc., should be produced together and children files should follow parent files sequentially in the Bates numbering.
- 5. All load-ready collections should include only one data load file and one image pointer file.
- 6. All load-ready text must be produced as separate document-level text files.
- 7. All load-ready collections should account for custodians in the custodian field.
- All load-ready collections must provide the extracted contents of any container files to ensure all relevant files are produced as separate records.
- 9. Audio files should be separated from data files if both are included in the production.
- 10. Only alphanumeric characters and the underscore character are permitted in file names and folder names. Special characters are not permitted.
- 11. All electronic productions submitted on media must be produced using industry standard self-extracting encryption software.
- 12. The SEC uses 7zip to access compressed files. Note that the SEC **cannot** accept files that use AES-256 Jpeg or pkAES-256-Cert Deflate compression methods, even if the files are created with 7zip. If you have any questions or need additional information, please reach out to the requesting SEC staff member.
- 13. Electronic productions of 30 GB or less are strongly encouraged to be submitted via Secure File Transfer. All Secure File Transfers should be sent to the SEC Centralized Production Unit (ENF-CPU@sec.gov) with a CC to the requesting SEC staff member. If you do not have your own Secure File Transfer application, you may reach out to the requesting SEC staff member for a link to the SEC system in order to upload your production. If using the SEC Secure File Transfer system, you will NOT be able to CC individuals outside the SEC on your upload transmission. Note that the SEC cannot accept productions made using file sharing sites such as Google Drive or Microsoft Office 365.
- 14. Productions containing BSA or SAR material must be encrypted. Secure File Transfer applications may be used to produce BSA or SAR material. BSA or SAR material should be segregated and appropriately marked as BSA or SAR, or should be produced separately from other case related records.
- 15. Passwords for electronic documents, files, compressed archives and encrypted media must be provided separately either via email or in a cover letter apart from the media.
- 16. All electronic productions should be produced free of computer viruses.
- 17. Before producing forensically collected images, parties should reach out to the requesting SEC staff member in order to discuss appropriate handling.
- 18. Before producing unique data sets (large sets of relational data, website reconstruction, chat room data, etc.), parties should reach out to the requesting SEC staff member in order to discuss an appropriate production format.
- Additional technical descriptions can be found in the addendum to this document.

Please note that productions sent to the SEC via United States Postal Service are subject to Mail Irradiation, and as a result electronic productions may be damaged.

Delivery Formats

Imaged Productions

The SEC prefers that all scanned paper and electronic file collections be produced in a structured format including industry standard load files, Bates numbered image files, native files and searchable document-level text files. Bates numbers should not contain spaces. Hyphens (-) and underscores (-) are acceptable.

1. Images

- Black and white images must be 300 DPI Group IV single-page TIFF files
- b. Color images must be produced in JPEG format
- File names cannot contain embedded spaces or special characters (including the comma)
- d. Folder names cannot contain embedded spaces or special characters (including the comma)
- e. All image files must have a unique file name, i.e. Bates number
- f. Images must be endorsed with sequential Bates numbers in the lower right corner of each image
- The number of image files per folder should not exceed 2,000 files g.
- h. Excel spreadsheets should have a placeholder image named by the Bates number of the file
- AUTOCAD/photograph files should be produced as a single page JPEG file

2. Image Cross-Reference File

The image cross-reference file (LOG or .OPT) links the images to the database records. It should be a comma-delimited file consisting of seven fields per line with a line in the cross-reference file for every image in the database with the following format:

ImageID, VolumeLabel, ImageFilePath, DocumentBreak, FolderBreak, BoxBreak, PageCount

3. Data File

The data file (.DAT) contains all of the fielded information that will be loaded into the database.

- The first line of the .DAT file must be a header row identifying the field names
- The .DAT file must use the following *Concordance*® default delimiters:

Comma ¶ ASCII character (020)

Quote b ASCII character (254)

- c. If the .DAT file is produced in Unicode format it must contain the byte order marker
- d. Date fields should be provided in the format: mm/dd/yyyy
- Date and time fields must be two separate fields
- The time zone must be included in all time fields f.
- If the production includes imaged emails and attachments, the attachment fields must be included to preserve the parent/child relationship between an email and its attachments
- An OCRPATH field must be included to provide the file path and name of the extracted text file on the produced storage media. The text file must be named after the FIRSTBATES. Do not include the text in the .DAT file.
- For productions with native files, a LINK field must be included to provide the file path and name of the native file on the produced storage media. The native file must be named after the FIRSTBATES.
- BEGATTACH and ENDATTACH fields must be two separate fields
- A complete list of metadata fields is available in Addendum A to this document

4. Text

Text must be produced as separate document-level text files, not as fields within the .DAT file. The text files must be named per the FIRSTBATES/Image Key and the full path to the text file (OCRPATII) should be included in the .DAT file. Text files may be in either ANSI or Unicode format, however, ALL text files must be in the same format within the same production. Note that productions containing text with foreign characters must produce text files in Unicode format to preserve the foreign characters. Text files must be in a separate folder, and the number of text files per folder should not exceed 2,000 files. There should be no special characters (including commas) in the folder names. For redacted documents, provide the full text for the redacted version.

Linked Native Files

Copies of original email and native file documents/attachments must be included for all electronic productions.

- a. Native file documents must be named per the FIRSTBATES number
- b. The full path of the native file must be provided in the .DAT file for the LINK field
- The number of native files per folder should not exceed 2,000 files

II. Native File Production without Load Files

With prior approval, native files may be produced without load files. Native file productions should not be Bates numbered. Native files must be produced as they are maintained in the normal course of business and organized by custodian-named file folders. Native email files (.PST or .MBOX) must be separated by custodian.

III. Adobe PDF File Production

With prior approval, Adobe PDF files may be produced in native file format.

- 1. All PDFs must be unitized at the document level, i.e. each PDF must represent a discrete document.
- 2. PDF files should be produced in separate folders named by the custodian. The folders should not contain any special characters (including commas).
- 3. All PDF files must contain embedded text that includes all discernible words within the document, not selected text or image only. This requires all layers of the PDF to be flattened first.
- 4. If PDF files are Bates endorsed, the PDF files must be named by the Bates range.

IV. Audio Files

Audio files from telephone recording systems must be produced in a format that is playable using Microsoft Windows Media PlayerTM. Additionally, the call information (metadata) related to each audio recording MUST be provided. The metadata file must be produced in a delimited text format. Field names must be included in the first row of the text file. The metadata must include, at a minimum, the following fields:

1) Caller Name: Caller's name or account/identification number

2) Originating Number: Caller's phone number3) Called Party Name: Called party's name

4) Terminating Number: Called party's phone number

5) Date: Date of call
6) Time: Time of call

7) Filename: Filename of audio file

V. Video Files

Video files must be produced in a format that is playable using Microsoft Windows Media PlayerTM.

VI. Electronic Trade and Bank Records

When producing electronic trade records, bank records, or financial statements, provide the files in one of the following formats:

- 1. MS Excel spreadsheet with header information detailing the field structure. If any special codes exist in the dataset, a separate document must be provided that details all such codes. If details of the field structure do not fit in the header, a separate document must be provided that includes such details.
- 2. Delimited text file with header information detailing the field structure. The preferred delimiter is a vertical bar "|". If any special codes exist in the dataset, a separate document must be provided that details all such codes. If details of the field structure do not fit in the header, a separate document must be provided that includes such details.

VII. Electronic Phone Records

When producing an MS Excel spreadsheet for electronic phone records, provide the files in the following format:

- 1. MS Excel spreadsheet with header information detailing the field structure. If any special codes exist in the dataset, a separate document must be provided that details all such codes. If details of the field structure do not fit in the header, a separate document must be provided that includes such details. Data must be formatted in its native format (i.e. dates in a date format, numbers in an appropriate numerical format, and numbers with leading zeroes as text).
 - a. The metadata that must be included is outlined in **Addendum B** of this document. Each field of data must be loaded into a separate column. For example, Date and Start_Time must be produced in separate columns and not combined into a single column containing both pieces of information. Any fields of data that are provided in addition to those listed in **Addendum B** must also be loaded into separate columns.

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Data Delivery Standards

VIII. Audit Workpapers

The SEC prefers for workpapers to be produced in two formats: (1) With Bates numbers in accordance with the SEC Data Delivery Standards; and (2) in native format via laptop computer, web-based viewing platform, or otherwise, allowing for viewing in the same format and organization as the firm's audit team. Prior to production of workpapers via laptop computer or web-based viewing platform, audit firms should contact the requesting SEC staff member for additional information and written agreements addressing use of software, access, and viewing protocols.

IX. Mobile Device Data

Before producing any mobile device data (including but not limited to text messages and application data) parties should reach out to the requesting SEC staff member in order to discuss the appropriate production format. Productions containing chat data from applications must be identified at the time of production and the following information must be provided to the requesting SEC staff member and the SEC Centralized Production Unit: chat application, chat data format, and how the length of a chat is determined (i.e. set duration of time, number of minutes without messages, etc.)

ADDENDUM A

The metadata of electronic document collections should be extracted and provided in a .DAT file using the field definition and formatting described below:

Field Name	Sample Data	Description
FIRSTBATES	EDC0000001	First Bates number of native file document/email
LASTBATES	EDC0000001	Last Bates number of native file document/email
		**The LASTBATES field should be populated
		for single page documents/emails.
ATTACHRANGE	EDC0000001 - EDC0000015	Bates number of the first page of the parent
		document to the Bates number of the last page of the
		last attachment "child" document
BEGATTACH	EDC0000001	First Bates number of attachment range
ENDATTACH	EDC0000015	Last Bates number of attachment range
PARENT_BATES	EDC0000001	First Bates number of parent document/Email **This PARENT_BATES field should be populated
		in each record representing an attachment "child"
		document
CHILD BATES	EDC0000002; EDC0000014	First Bates number of "child" attachment(s); can be
		more than one Bates number listed depending on the
		number of attachments
		**The CHILD BATES field should be populated in
		each record representing a "parent" document
CUSTODIAN	Smith, John	Email: Mailbox where the email resided
		Native: Name of the individual or department from
		whose files the document originated
FROM	John Smith	Email: Sender
		Native: Author(s) of document
		**semi-colon should be used to separate multiple
		entries
TO	Coffman, Janice; LeeW	Recipient(s)
	[mailto:LecW@MSN.com]	**semi-colon should be used to separate multiple
		entries
CC	Frank Thompson [mailto:	Carbon copy recipient(s)
	frank_Thompson@cdt.com]	**semi-colon should be used to separate multiple
D.C.C.		entries
BCC	John Cain	Blind carbon copy recipient(s)
		**semi-colon should be used to separate multiple
SUBJECT	Board Meeting Minutes	entries Email: Subject line of the email
SUBJECT	Board Meeting Minutes	Native: Title of document (if available)
FILE_NAME	BoardMeetingMinutes.docx	Native: Name of the original native file, including
TILE_INVINE	Board.Meeting.Willules.docx	extension
DATE SENT	10/12/2010	Email: Date the email was sent
DATE SERVE	10/12/2010	Native: (empty)
TIME SENT/TIME	07:05 PM GMT	Email: Time the email was sent/ Time zone in which
ZONE		the emails were standardized during conversion.
		Native: (empty)
		**This data must be a separate field and cannot be
		combined with the DATE_SENT field
TIME_ZONE	GMT	The time zone in which the emails were standardized
		during conversion.
		Email: Time zone
		Native: (empty)
	·	

LINK	D:\001\EDC0000001.msg	Hyperlink to the email or native file document **The linked file must be named per the FIRSTBATES number
MIME_TYPE	application/msword	The content type of an email or native file document as identified/extracted from the header
FILE_EXTEN	MSG	The file type extension representing the email or native file document; will vary depending on the format
AUTHOR	John Smith	Email: (empty) Native: Author of the document
LAST_AUTHOR	Jane Doe	Email: (empty) Native: Last Author of the document
DATE_CREATED	10/10/2010	Email: (empty) Native: Date the document was created
TIME_CREATED/T IME_ZONE	10:25 AM GMT	Email: (empty) Native: Time the document was created including time zone **This data must be a separate field and cannot be combined with the DATE_CREATED field
DATE_MOD	10/12/2010	Email: (empty) Native: Date the document was last modified
TIME_MOD/TIME_ ZONE	07:00 PM GMT	Email: (empty) Native: Time the document was last modified including the time zone **This data must be a separate field and cannot be combined with the DATE_MOD field
DATE_ACCESSD	10/12/2010	Email: (empty) Native: Date the document was last accessed
TIME_ACCESSD/T IME_ZONE	07:00 PM GMT	Email: (empty) Native: Time the document was last accessed including the time zone **This data must be a separate field and cannot be combined with the DATE_ACCESSD field
PRINTED_DATE	10/12/2010	Email: (empty) Native: Date the document was last printed
FILE_SIZE	5,952	Size of native file document/email in KB
PGCOUNT	1	Number of pages in native file document/email
PATH	J:\Shared\SmithJ\October Agenda.doc	Email: (empty) Native: Path where native file document was stored including original file name.
INTFILEPATH	Personal Folders\Deleted Items\Board Meeting Minutes.msg	Email: original location of email including original file name. Native: (empty)
INTMSGID	<000805c2c71bS75977050Scb 8306d1@MSN>	Email: Unique Message ID Native: (empty)

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HEADER SHA254	Return-Path: <example_from@dc.edu> X-SpamCatcher-Score:1[X] Received:from[136.167.40.119] (HELO dc.edu) by fe3.dc.edu (CommuniGate Pro SMTP4.1.8) with ESMTP-TLS id 61258719 for example_to@mail.dc.edu; Mon, 23 Aug 2004 11:40:10 - 0400 Message-ID: <4129F3CA.2020509@dc.edu> Date: Mon, 23 Aug 2005 11:40:36 -400 From: Taylor Evans <example_from@dc.edu> User-Agent:Mozilla/5.0 (Windows;U; Windows NT 5.1: en-US;rv:1.0.1) Gecko/20020823 Netscape/7.0 X-Accept-Language:en-us,en MIME-Version:1.0 To: Jon Smith <example_to@mail.dc.edu> Subject:Business Development Meeting Content-Type: text/plain;charset=us-ascii; format=flowed Content-Transfer-Encoding:7bit</example_to@mail.dc.edu></example_from@dc.edu></example_from@dc.edu>	Email: The email header information Native: (empty) SHA-256 hash value of the document.
SHA256	AD6128C5CA40164AF71A1E FC800E12D2F195CE07BB5F8 C813B0888A2DDE6A06F	SHA-230 hash value of the document.
OCRPATH	TEXT/001/EDC0000001.txt	Path to extracted text of the native file

Sample Image Cross-Reference File:

IMG0000001,,E:\001\IMG0000001.TIF,Y,,,
IMG0000002,,E:\001\IMG0000002.TIF,,,,
IMG0000003,,E:\001\IMG0000004.TIF,Y,,,
IMG0000004,,E:\001\IMG0000005.TIF,Y,,,
IMG0000005,,E:\001\IMG0000005.TIF,Y,,,
IMG0000006,,E:\001\IMG0000006.TIF,,,,,

ADDENDUM B

For Electronic Phone Records, include the following fields in separate columns:

For Calls:

- 1) Account Number
- 2) Connection Date Date the call was received or made
- 3) Connection Time Time call was received or made
- 4) Seizure Time Time it took for the call to be placed in seconds
- 5) Originating Number Phone that placed the call
- 6) Terminating Number Phone that received the call
- 7) Elapsed Time The length of time the call lasted, preferably in seconds
- 8) End Time The time the call ended
- 9) Number Dialed Actual number dialed
- 10) IMEI Originating Unique id to phone used to make call
- 11) IMEI Terminating-Unique id to phone used to receive call
- 12) IMSI Originating Unique id to phone used to make call
- 13) IMSI Terminating- Unique id to phone used to receive call
- 14) Call Codes Identify call direction or other routing information
- 15) Time Zone Time Zone in which the call was received or placed, if applicable

For Text messages:

- 1) Account Number
- 2) Connection Date Date the text was received or made
- 3) Connection Time Time text was received or made
- 4) Originating Number Who placed the text
- 5) Terminating Number Who received the text
- 6) IMEI Originating Unique id to phone used to make text
- 7) IMEI Terminating—Unique id to phone used to receive text
- 8) IMSI Originating Unique id to phone used to make text
- 9) IMSI Terminating- Unique id to phone used to receive text
- 10) Text Code Identify text direction, or other text routing information
- 11) Text Type Code Type of text message (sent SMS, MMS, or other)
- 12) Time Zone Time Zone in which the call was received or placed, if applicable

For Mobile Data Usage:

- 1) Account Number
- Connection Date Date the data was received or made
- 3) Connection Time Time data was received or made
- 4) Originating number Number that used data
- 5) IMEI Originating Unique id of phone that used data
- 6) IMSI Originating Unique id of phone that used data
- 7) Data or Data codes Identify data direction, or other data routing information
- 8) Time Zone Time Zone in which the call was received or placed, if applicable

SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549

Supplemental Information for Persons Requested to Supply Information Voluntarily or Directed to Supply Information Pursuant to a Commission Subpoena

A. False Statements and Documents

Section 1001 of Title 18 of the United States Code provides that fines and terms of imprisonment may be imposed upon:

[W]hoever, in any matter within the jurisdiction of the executive, legislative, or judicial branch of the Government of the United States, knowingly and willfully--

- (1) falsifies, conceals, or covers up by any trick, scheme, or device a material fact;
- (2) makes any materially false, fictitious, or fraudulent statement or representation; or
- (3) makes or uses any false writing or document knowing the same to contain any materially false, fictitious, or fraudulent statement or entry.

Section 1519 of Title 18 of the United States Code provides that fines and terms of imprisonment may be imposed upon:

Whoever knowingly alters, destroys, mutilates, conceals, covers up, falsifies, or makes a false entry in any record, document, or tangible object with the intent to impede, obstruct, or influence the investigation or proper administration of any matter within the jurisdiction of any department or agency of the United States . . ., or in relation to or contemplation of any such matter.

B. Testimony

If your testimony is taken, you should be aware of the following:

- Record. Your testimony will be transcribed by a reporter. If you desire to go off the record, please indicate this to
 the Commission employee taking your testimony, who will determine whether to grant your request. The reporter
 will not go off the record at your, or your counsel's, direction.
- 2. Counsel. You have the right to be accompanied, represented and advised by counsel of your choice. Your counsel may advise you before, during and after your testimony; question you briefly at the conclusion of your testimony to clarify any of the answers you give during testimony; and make summary notes during your testimony solely for your use. If you are accompanied by counsel, you may consult privately.

If you are not accompanied by counsel, please advise the Commission employee taking your testimony if, during the testimony, you desire to be accompanied, represented and advised by counsel. Your testimony will be adjourned once to afford you the opportunity to arrange to be so accompanied, represented or advised.

You may be represented by counsel who also represents other persons involved in the Commission's investigation. This multiple representation, however, presents a potential conflict of interest if one client's interests are or may be adverse to another's. If you are represented by counsel who also represents other persons involved in the investigation, the Commission will assume that you and counsel have discussed and resolved all issues concerning possible conflicts of interest. The choice of counsel, and the responsibility for that choice, is yours.

3. Transcript Availability. Rule 6 of the Commission's Rules Relating to Investigations, 17 CFR 203.6, states:

A person who has submitted documentary evidence or testimony in a formal investigative proceeding shall be entitled, upon written request, to procure a copy of his documentary evidence or a transcript of his testimony on payment of the appropriate fees: *Provided, however*, That in a nonpublic formal investigative proceeding the Commission may for good cause deny such request. In any event, any witness, upon proper identification, shall have the right to inspect the official transcript of the witness' own testimony.

If you wish to purchase a copy of the transcript of your testimony, the reporter will provide you with a copy of the appropriate form. Persons requested to supply information voluntarily will be allowed the rights provided by this rule.

4. *Perjury.* Section 1621 of Title 18 of the United States Code provides that fines and terms of imprisonment may be imposed upon:

Whoever-

(1) having taken an oath before a competent tribunal, officer, or person, in any case in which a law of the United States authorizes an oath to be administered, that he will testify, declare,

depose, or certify truly, or that any written testimony, declaration, deposition, or certificate by him subscribed, is true, willfully and contrary to such oath states or subscribes any material matter which he does not believe to be true; or

- (2) in any declaration, certificate, verification, or statement under penalty of perjury as permitted under section 1746 of title 28, United States Code, willfully subscribes as true any material matter which he does not believe to be true.
- 5. Fifth Amendment and Voluntary Testimony. Information you give may be used against you in any federal, state, local or foreign administrative, civil or criminal proceeding brought by the Commission or any other agency.

You may refuse, in accordance with the rights guaranteed to you by the Fifth Amendment to the Constitution of the United States, to give any information that may tend to incriminate you.

If your testimony is not pursuant to subpoena, your appearance to testify is voluntary, you need not answer any question, and you may leave whenever you wish. Your cooperation is, however, appreciated.

6. Formal Order Availability. If the Commission has issued a formal order of investigation, it will be shown to you during your testimony, at your request. If you desire a copy of the formal order, please make your request in writing.

C. Submissions and Settlements

Rule 5(c) of the Commission's Rules on Informal and Other Procedures, 17 CFR 202,5(c), states:

Persons who become involved in . . . investigations may, on their own initiative, submit a written statement to the Commission setting forth their interests and position in regard to the subject matter of the investigation. Upon request, the staff, in its discretion, may advise such persons of the general nature of the investigation, including the indicated violations as they pertain to them, and the amount of time that may be available for preparing and submitting a statement prior to the presentation of a staff recommendation to the Commission for the commencement of an administrative or injunction proceeding. Submissions by interested persons should be forwarded to the appropriate Division Director or Regional Director with a copy to the staff members conducting the investigation and should be clearly referenced to the specific investigation to which they relate. In the event a recommendation for the commencement of an enforcement proceeding is presented by the staff, any submissions by interested persons will be forwarded to the Commission in conjunction with the staff memorandum.

The staff of the Commission routinely seeks to introduce submissions made pursuant to Rule 5(c) as evidence in Commission enforcement proceedings, when the staff deems appropriate.

Rule 5(f) of the Commission's Rules on Informal and Other Procedures, 17 CFR 202.5(f), states:

In the course of the Commission's investigations, civil lawsuits, and administrative proceedings, the staff, with appropriate authorization, may discuss with persons involved the disposition of such matters by consent, by settlement, or in some other manner. It is the policy of the Commission, however, that the disposition of any such matter may not, expressly or impliedly, extend to any criminal charges that have been, or may be, brought against any such person or any recommendation with respect thereto. Accordingly, any person involved in an enforcement matter before the Commission who consents, or agrees to consent, to any judgment or order does so solely for the purpose of resolving the claims against him in that investigative, civil, or administrative matter and not for the purpose of resolving any criminal charges that have been, or might be, brought against him. This policy reflects the fact that neither the Commission nor its staff has the authority or responsibility for instituting, conducting, settling, or otherwise disposing of criminal proceedings. That authority and responsibility are vested in the Attorney General and representatives of the Department of Justice.

D. Freedom of Information Act

The Freedom of Information Act, 5 U.S.C. 552 (the "FOIA"), generally provides for disclosure of information to the public. Rule 83 of the Commission's Rules on Information and Requests, 17 CFR 200.83, provides a procedure by which a person can make a written request that information submitted to the Commission not be disclosed under the FOIA. That rule states that no determination as to the validity of such a request will be made until a request for disclosure of the information under the FOIA is received. Accordingly, no response to a request that information not be disclosed under the FOIA is necessary or will be given until a request for disclosure under the FOIA is received. If you desire an acknowledgment of receipt of your written request that information not be disclosed under the FOIA, please provide a duplicate request, together with a stamped, self-addressed envelope.

E. Authority for Solicitation of Information

Persons Directed to Supply Information Pursuant to Subpoena. The authority for requiring production of information is set forth in the subpoena. Disclosure of the information to the Commission is mandatory, subject to the valid assertion of any legal right or privilege you might have.

Persons Requested to Supply Information Voluntarily. One or more of the following provisions authorizes the Commission to solicit the information requested: Sections 19 and/or 20 of the Securities Act of 1933; Section 21 of the Securities Exchange Act of 1934; Section 321 of the Trust Indenture Act of 1939; Section 42 of the Investment Company Act of 1940; Section 209 of the Investment Advisers Act of 1940; and 17 CFR 202.5. Disclosure of the requested information to the Commission is voluntary on your part.

F. Effect of Not Supplying Information

Persons Directed to Supply Information Pursuant to Subpoena. If you fail to comply with the subpoena, the Commission may seek a court order requiring you to do so. If such an order is obtained and you thereafter fail to supply the information, you may be subject to civil and/or criminal sanctions for contempt of court. In addition, Section 21(c) of the Securities Exchange Act of 1934, Section 42(c) of the Investment Company Act of 1940, and Section 209(c) of the Investment Advisers Act of 1940 provide that fines and terms of imprisonment may be imposed upon any person who shall, without just cause, fail or refuse to attend and testify or to answer any lawful inquiry, or to produce books, papers, correspondence, memoranda, and other records in compliance with the subpoena.

Persons Requested to Supply Information Voluntarily. There are no direct sanctions and thus no direct effects for failing to provide all or any part of the requested information.

G. Principal Uses of Information

The Commission's principal purpose in soliciting the information is to gather facts in order to determine whether any person has violated, is violating, or is about to violate any provision of the federal securities laws or rules for which the Commission has enforcement authority, such as rules of securities exchanges and the rules of the Municipal Securities Rulemaking Board. Facts developed may, however, constitute violations of other laws or rules. Information provided may be used in Commission and other agency enforcement proceedings. Unless the Commission or its staff explicitly agrees to the contrary in writing, you should not assume that the Commission or its staff acquiesces in, accedes to, or concurs or agrees with, any position, condition, request, reservation of right, understanding, or any other statement that purports, or may be deemed, to be or to reflect a limitation upon the Commission's receipt, use, disposition, transfer, or retention, in accordance with applicable law, of information provided.

H. Routine Uses of Information

The Commission often makes its files available to other governmental agencies, particularly United States Attorneys and state prosecutors. There is a likelihood that information supplied by you will be made available to such agencies where appropriate. Whether or not the Commission makes its files available to other governmental agencies is, in general, a confidential matter between the Commission and such other governmental agencies.

Set forth below is a list of the routine uses which may be made of the information furnished.

- 1. To appropriate agencies, entities, and persons when (1) the SEC suspects or has confirmed that there has been a breach of the system of records, (2) the SEC has determined that as a result of the suspected or confirmed breach there is a risk of harm to individuals, the SEC (including its information systems, programs, and operations), the Federal Government, or national security; and (3) the disclosure made to such agencies, entities, and persons is reasonably necessary to assist in connection with the SEC's efforts to respond to the suspected or confirmed breach or to prevent, minimize, or remedy such harm.
- 2. To other Federal, state, local, or foreign law enforcement agencies; securities self-regulatory organizations; and foreign financial regulatory authorities to assist in or coordinate regulatory or law enforcement activities with the SEC.
- 3. To national securities exchanges and national securities associations that are registered with the SEC, the Municipal Securities Rulemaking Board; the Securities Investor Protection Corporation; the Public Company Accounting Oversight Board; the Federal banking authorities, including, but not limited to, the Board of Governors of the Federal Reserve System, the Comptroller of the Currency, and the Federal Deposit Insurance Corporation; state securities regulatory agencies or organizations; or regulatory authorities of a foreign government in connection with their regulatory or enforcement responsibilities.
- 4. By SEC personnel for purposes of investigating possible violations of, or to conduct investigations authorized by, the Federal securities laws.
- 5. In any proceeding where the Federal securities laws are in issue or in which the Commission, or past or present members of its staff, is a party or otherwise involved in an official capacity.
- 6. In connection with proceedings by the Commission pursuant to Rule 102(e) of its Rules of Practice, 17 CFR 201.102(e).

- 7. To a bar association, state accountancy board, or other Federal, state, local, or foreign licensing or oversight authority; or professional association or self-regulatory authority to the extent that it performs similar functions (including the Public Company Accounting Oversight Board) for investigations or possible disciplinary action.
- 8. To a Federal, state, local, tribal, foreign, or international agency, if necessary to obtain information relevant to the SEC's decision concerning the hiring or retention of an employee; the issuance of a security clearance; the letting of a contract; or the issuance of a license, grant, or other benefit.
- 9. To a Federal, state, local, tribal, foreign, or international agency in response to its request for information concerning the hiring or retention of an employee; the issuance of a security clearance; the reporting of an investigation of an employee; the letting of a contract; or the issuance of a license, grant, or other benefit by the requesting agency, to the extent that the information is relevant and necessary to the requesting agency's decision on the matter.
- 10. To produce summary descriptive statistics and analytical studies, as a data source for management information, in support of the function for which the records are collected and maintained or for related personnel management functions or manpower studies; may also be used to respond to general requests for statistical information (without personal identification of individuals) under the Freedom of Information Act.
- 11. To any trustee, receiver, master, special counsel, or other individual or entity that is appointed by a court of competent jurisdiction, or as a result of an agreement between the parties in connection with litigation or administrative proceedings involving allegations of violations of the Federal securities laws (as defined in section 3(a)(47) of the Securities Exchange Act of 1934, 15 U.S.C. 78c(a)(47)) or pursuant to the Commission's Rules of Practice, 17 CFR 201.100 through 900 or the Commission's Rules of Fair Fund and Disgorgement Plans, 17 CFR 201.1100 through 1106, or otherwise, where such trustee, receiver, master, special counsel, or other individual or entity is specifically designated to perform particular functions with respect to, or as a result of, the pending action or proceeding or in connection with the administration and enforcement by the Commission of the Federal securities laws or the Commission's Rules of Practice or the Rules of Fair Fund and Disgorgement Plans.
- 12. To any persons during the course of any inquiry, examination, or investigation conducted by the SEC's staff, or in connection with civil litigation, if the staff has reason to believe that the person to whom the record is disclosed may have further information about the matters related therein, and those matters appeared to be relevant at the time to the subject matter of the inquiry.
- 13. To interns, grantees, experts, contractors, and others who have been engaged by the Commission to assist in the performance of a service related to this system of records and who need access to the records for the purpose of assisting the Commission in the efficient administration of its programs, including by performing clerical, stenographic, or data analysis functions, or by reproduction of records by electronic or other means. Recipients of these records shall be required to comply with the requirements of the Privacy Act of 1974, as amended, 5 U.S.C.
- 14. In reports published by the Commission pursuant to authority granted in the Federal securities laws (as such term is defined in section 3(a)(47) of the Securities Exchange Act of 1934, 15 U.S.C. 78c(a)(47)), which authority shall include, but not be limited to, section 21(a) of the Securities Exchange Act of 1934, 15 U.S.C. 78u(a)).
- 15. To members of advisory committees that are created by the Commission or by Congress to render advice and recommendations to the Commission or to Congress, to be used solely in connection with their official designated functions.
- 16. To any person who is or has agreed to be subject to the Commission's Rules of Conduct, 17 CFR 200.735-1 through 200.735-18, and who assists in the investigation by the Commission of possible violations of the Federal securities laws (as such term is defined in section 3(a)(47) of the Securities Exchange Act of 1934, 15 U.S.C. 78c(a)(47)), in the preparation or conduct of enforcement actions brought by the Commission for such violations, or otherwise in connection with the Commission's enforcement or regulatory functions under the Federal securities laws.
- 17. To a Congressional office from the record of an individual in response to an inquiry from the Congressional office made at the request of that individual.
- 18. To members of Congress, the press, and the public in response to inquiries relating to particular Registrants and their activities, and other matters under the Commission's jurisdiction.
- 19. To prepare and publish information relating to violations of the Federal securities laws as provided in 15 U.S.C. 78c(a)(47)), as amended.
- 20. To respond to subpoenas in any litigation or other proceeding.
- 21. To a trustee in bankruptcy.
- 22. To any governmental agency, governmental or private collection agent, consumer reporting agency or commercial reporting agency, governmental or private employer of a debtor, or any other person, for collection,

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including collection by administrative offset, Federal salary offset, tax refund offset, or administrative wage garnishment, of amounts owed as a result of Commission civil or administrative proceedings.

23. To another Federal agency or Federal entity, when the SEC determines that information from this system of records is reasonably necessary to assist the recipient agency or entity in (1) responding to a suspected or confirmed breach or (2) preventing, minimizing, or remedying the risk of harm to individuals, the recipient agency or entity (including its information systems, programs, and operations), the Federal Government, or national security, resulting from a suspected or confirmed breach.

* * * * *

Small Business Owners: The SEC always welcomes comments on how it can better assist small businesses. If you would like more information, or have questions or comments about federal securities regulations as they affect small businesses, please contact the Office of Small Business Policy, in the SEC's Division of Corporation Finance, at 202-551-3460. If you would prefer to comment to someone outside of the SEC, you can contact the Small Business Regulatory Enforcement Ombudsman at http://www.sba.gov/ombudsman or toll free at 888-REG-FAIR. The Ombudsman's office receives comments from small businesses and annually evaluates federal agency enforcement activities for their responsiveness to the special needs of small business.



UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Chicago Regional Office 175 West Jackson, Suite 1450 Chicago, IL 60604

DIVISION OF ENFORCEMENT

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(h.) (G).	
(b)(6); (b)(7)(C)	sec.gov

March 14, 2024

VIA EMAIL

ConsenSys Software, Inc. c/o Stephen Ehrenberg, Esq. James A. McDonald, Esq. Sullivan & Cromwell LLP 125 Broad Street New York, NY 10004

Re: Ethereum 2.0 (C-08950)

Dear Mr. Ehrenberg:

The enclosed subpoena has been issued pursuant to a formal order entered by the United States Securities and Exchange Commission. Pursuant to Rule 8 of the United States Securities and Exchange Commission's Rules Relating to Investigations, 17 C.F.R. § 203.8, I have enclosed a subpoena for documents issued to ConsenSys Software, Inc. ("ConsenSys"), in connection with the above-referenced investigation.

This is a federal civil law enforcement investigation and you must produce all documents described in the attachment to the subpoena. You must provide these documents by **March 28**, **2024**.

Please send the materials electronically to ENF-CPU@sec.gov with copies to
b)(6): \hat{c} sec.gov, \hat{b})(6): \hat{c} sec.gov, \hat{b})(6): \hat{c} sec.gov, and \hat{b})(6): \hat{c} sec.gov. If you would
like to use the Commission's secure electronic transfer site, Accellion/Kiteworks, please contac
me and I will send you a link. If you prefer to send the materials on DVD or other electronic
media, please send them to the following address:

ENF-CPU (U.S. Securities & Exchange Commission) 14420 ALBEMARLE POINT PL Suite 102 CHANTILLY, VA 20151-1750

In your cover letter(s) accompanying the production of responsive documents, please enclose a list briefly describing each item you send. The list should state to which paragraph(s) in the subpoena attachment each item responds. Please also state in the cover letter(s) whether you believe ConsenSys has met its obligations under the subpoena by searching carefully and thoroughly for everything called for by the subpoena, and sending it all to us. A copy of the subpoena should be included with the documents that are produced. Correspondence should reference case number, case name, and the name of the requesting SEC staff member.

Passwords for documents, files, compressed archives, and encrypted media should be provided separately either via email addressed to ENF-CPU@scc.gov, or in a separate cover letter mailed separately from the data. Password correspondence should reference case number, case name and requesting SEC staff member.

In addition, for any documents that qualify as records of regularly conducted activities under Federal Rule of Evidence 902(11), please have the appropriate representative(s) of ConsenSys complete a business records certification (a sample of which is enclosed) and return it with the document production. Execution of this certification may allow the Commission to introduce the documents provided by ConsenSys in any subsequent judicial proceeding, without requiring the testimony of a records custodian.

Please note that, in any matter in which enforcement action is ultimately deemed to be warranted, the Division of Enforcement will not recommend any settlement to the Commission unless the party wishing to settle certifies, under penalty of perjury, that all documents responsive to Commission subpoenas and formal and informal document requests in this matter have been produced.

This investigation is a non-public, fact-finding inquiry. We are trying to determine whether there have been any violations of the federal securities laws. The investigation and the subpoena do not mean that we have concluded that your client or anyone else has violated the law. Also, the investigation does not mean that we have a negative opinion of any person, entity or security. Enclosed is a copy of the Commission's Form 1662 entitled "Supplemental Information for Persons Requested to Supply Information Voluntarily or Directed to Supply Information Pursuant to a Commission Subpoena." Form 1662 explains how we may use the information ConsenSys provides to the Commission and has other important information.

If you have any questions or work (b)(6); (b)(7)(C) or (b)(6); (b)(7)(C) at (b)(6); (b)(7)(C)	uld like to discuss this matter, you may call me at (b)(7)(C)
	Sincerely,
	(b)(6); (b)(7)(C)
	Division of Enforcement

Enclosures:

Subpoena and Attachment SEC Data Delivery Standards SEC Form 1662

Declaration Certifying Records



SUBPOENA

UNITED STATES OF AMERICA **SECURITIES AND EXCHANGE COMMISSION**

In the Matter of Ethereum 2.0 (C-08950)

То:	ConsenSys Software, Inc. c/o Stephen Ehrenberg, Esq. James A. McDonald, Esq. Sullivan & Cromwell LLP 125 Broad Street New York, NY 10004
\boxtimes	YOU MUST PRODUCE everything specified in the Attachment to this subpoena to officers of the Securities and Exchange Commission, at the place, date and time specified below:
	ENF-CPU, U.S. Securities and Exchange Commission, 14420 Albemarle Point Pl, Suite 102, Chantilly, VA 20151-1750, no later than March 28, 2024 at 9:30 a.m.
	FEDERAL LAW REQUIRES YOU TO COMPLY WITH THIS SUBPOENA. you do not comply with this subpoena, the SEC may bring an action in Federal Court to enforce this oena. Failure to comply with a court order enforcing this subpoena may result in the court imposing a fine, imprisonment, or both.
Ву:	U.S. Securities and Exchange Commission Chicago Regional Office 175 W. Jackson Blvd., Suite 1450 Chicago, IL 60604-2511
	n officer of the U.S. Securities and Exchange Commission authorized to issue subpoenas in this. The Securities and Exchange Commission has issued a formal order authorizing this investigation

NOTICE TO WITNESS: If you claim a witness fee or mileage, submit this subpoena with the claim voucher

under: Section 20(a) of the Securities Act of 1933.

SUBPOENA ATTACHMENT FOR CONSENSYS SOFTWARE, INC. March 14, 2024

In the Matter of Ethereum 2.0 (C-08950)

A. Definitions

As used in this document subpoena, the words and phrases listed below shall have the following meanings:

- 1. "Relevant Period" means July 1, 2018 to the present.
- 2. "ConsenSys" means the entity or business doing business under the name ConsenSys Software, Inc., including parents, subsidiaries, affiliates, predecessors, successors, officers, directors, employees, agents, general partners, limited partners, partnerships and aliases, owners, code names, or trade or business names used by any of the foregoing.
- 3. The "Ethereum Foundation" means the entity or business doing business under the name Ethereum Foundation, including, but not limited to, ethereum.org, the Ethereum Support Program, and parents, subsidiaries, affiliates, predecessors, successors, officers, directors, employees, agents, general partners, limited partners, partnerships and aliases, owners, code names, or trade or business names used by any of the foregoing.
- 4. "The Merge" or "Ethereum 2.0" means the transition by the Ethereum blockchain of its consensus mechanism from proof-of-work to proof-of-stake.
- 5. "Beacon Chain" means the original proof-of-stake blockchain that was launched in 2020 that ran alongside the original proof-of-work Ethereum blockchain.
- 6. "Secondary Trading Platforms" means any exchange, website, organization, entity, business, or protocol that allow Persons to buy or sell digital assets.
- 7. "Crypto Venture Capital Firms" means any Person or entity that provides financing or other support to startup or early-stage crypto asset projects.
- 8. "Document" includes, but is not limited to, any written, printed, or typed matter including, but not limited to all drafts and copies bearing notations or marks not found in the original, letters and correspondence, interoffice communications, slips, tickets, records, worksheets, financial records, accounting documents, bookkeeping documents, memoranda, reports, manuals, telephone logs, telegrams, facsimiles, messages of any type, telephone messages, voice mails, tape recordings, notices, instructions, minutes, summaries, notes of meetings, file folder markings, and any other organizational indicia, purchase orders, information recorded by photographic process, including microfilm and microfiche, computer printouts, spreadsheets, and other electronically stored information, including but not limited to writings, drawings, graphs, charts, photographs, sound recordings, images, and other data or data compilations that are stored in any medium from which information can be retrieved, obtained,

manipulated, or translated.

- 9. "Communication" means any correspondence, contact, discussion, e-mail, instant message, or any other kind of oral or written exchange or transmission of information (in the form of facts, ideas, inquiries, or otherwise), including but not limited to those made on Social Media Services, and any response thereto between two or more Persons or entities, including, without limitation, all telephone conversations, face-to-face meetings or conversations, internal or external discussions, or exchanges of a Document or Documents.
- 10. "Concerning" means directly or indirectly, in whole or in part, describing, constituting, evidencing, recording, evaluating, substantiating, concerning, referring to, alluding to, in connection with, commenting on, relating to, regarding, discussing, showing, analyzing or reflecting.
- 11. "Person" means a natural person, firm, association, organization, partnership, business, trust, corporation, bank or any other private or public entity.
- 12. The term "you" and "your" means the Person or entity to whom this subpoena was issued.
- 13. To the extent necessary to bring within the scope of this subpoena any information or Documents that might otherwise be construed to be outside its scope:
 - a. the word "or" means "and/or";
 - b. the word "and" means "and/or":
 - c. the functional words "each," "every" "any" and "all" shall each be deemed to include each of the other functional words;
 - d. the masculine gender includes the female gender and the female gender includes the masculine gender; and
 - e. the singular includes the plural and the plural includes the singular.

B. <u>Instructions</u>

- 1. Unless otherwise specified, the subpoena calls for production of the original Documents and all copies and drafts of same. Documents responsive to this subpoena may be in electronic or paper form. Electronic Documents such as email should be produced in accordance with the attached document entitled SEC Data Delivery Standards. All electronic Documents responsive to the subpoena, including all metadata, should also be produced in their native software format.
- 2. For Documents in paper format, you may send the originals, or, if you prefer, you may send copies of the originals. The Commission cannot reimburse you for the copying costs. If you are sending copies, the staff requests that you scan (rather than photocopy) hard copy Documents and produce them in an electronic format consistent with the SEC Data Delivery Standards. Alternatively, you may send us photocopies of the Documents in paper format. If you choose to send copies, you must secure and retain the originals and store them in a safe place. The staff may

later request or require that you produce the originals.

3. Whether you scan or photocopy Documents, the copies must be identical to the originals, including even faint marks or print. Also, please note that if copies of a Document differ in any way, they are considered separate Documents and you must send each one. For example, if you have two copies of the same letter, but only one of them has handwritten notes on it, you must send both the clean copy and the one with notes.

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- 4. In producing a photocopy of an original Document that contains post-it(s), notation flag(s), or other removable markings or attachments which may conceal all or a portion of the markings contained in the original Document, photocopies of the original Document both with and without the relevant post-it(s), notation flag(s), or removable markings or attachments should be produced.
- 5. Documents should be produced as they are kept in the ordinary course of business or be organized and labeled to correspond with the categories in this subpoena. In that regard, Documents should be produced in a unitized manner, *i.e.*, delineated with staples or paper clips to identify the Document boundaries.
- 6. Documents should be labeled with sequential numbering (bates-stamped).
- 7. The scope of any given request should not be limited or narrowed based on the fact that it calls for Documents that are responsive to another request.
- 8. You are not required to produce exact duplicates of any Documents that have been previously produced to the Securities and Exchange Commission staff in connection with this matter. If you are not producing Documents based upon a prior production, please identify the responsive Documents that were previously produced.
- 9. For any Documents that qualify as records of regularly conducted activities under Federal Rule of Evidence 902(11), please complete a business records certification (a sample of which is enclosed) and return it with the Document production.
- 10. This subpoena covers all Documents in or subject to your possession, custody or control, including all Documents that are not in your immediate possession but that you have the effective ability to obtain, that are responsive, in whole or in part, to any of the individual requests set forth below. If, for any reason including a claim of attorney-client privilege—you do not produce something called for by the subpoena, you should submit a list of what you are not producing. The list should be produced as an Excel file and describe each item separately, noting:
 - a. its author(s);
 - b. its date;
 - c. its subject matter;

- d. the name of the Person who has the item now, or the last Person known to have it:
- e. the names of everyone who ever had the item or a copy of it, and the names of everyone who was told the item's contents;
- f. the basis upon which you are not producing the responsive Document;
- g. the specific request in the subpoena to which the Document relates;
- h. the attorney(s) and the client(s) involved; and
- i. in the case of the work product doctrine, the litigation for which the Document was prepared in anticipation.
- 11. If Documents responsive to this subpoena no longer exist because they have been lost, discarded, or otherwise destroyed, you should identify such Documents and give the date on which they were lost, discarded or destroyed.

D. Documents to be Immediately Preserved and Produced

- 1. All Documents and Communications with the Ethereum Foundation, including, but not limited to, Communications with board members, consultants, officers, directors, employees, developers, coders, and others performing work on behalf of these entities, Concerning:
 - a. The Merge or the Beacon Chain;
 - b. ongoing or future development of the Ethereum blockchain; or
 - c. ConsenSys acting as a validator for the Ethereum blockchain;
- 2. All Documents and Communications with any Secondary Trading Platforms or Crypto Venture Capital Firms including, but not limited to, Communications with board members, consultants, officers, directors, employees, developers, coders, and others performing work on behalf of these entities, Concerning:
 - a. The Merge or the Beacon Chain;
 - b. ongoing or future development of the Ethereum blockchain; or
 - c. acting as a validator for the Ethereum blockchain.



U.S. Securities and Exchange Commission

Data Delivery Standards

This document describes the technical requirements for paper and electronic document productions to the U.S. Securities and Exchange Commission (SEC). **Any questions or proposed file formats other than those described below must be discussed with the legal and technical staff of the SEC Division of Enforcement prior to submission. **

Genera	l Instructions	
Deliver	ry Formats	. 2
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	maged Productions	3
	2. Image Cross-Reference File	
	3. Data File	
	4. Text	
	5. Linked Native Files	
	Native File Productions without Load Files	
11.	Native File Productions without Load Files	. 4
III.	Adobe PDF File Productions	. 4
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	Electronic Trade and Bank Records	
	. Electronic Phone Records	
	I. Audit Workpapers	
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IX.	Mobile Device Data	5

General Instructions

The current mailing address for all physical productions sent to the SEC is:

ENF-CPU (U.S. Securities & Exchange Commission), 14420 Albemarle Point Place, Suite 102, Chantilly, VA 20151-1750

Electronic files must be produced in their native format, i.e. the format in which they are ordinarily used and maintained during the normal course of business. For example, an MS Excel file must be produced as an MS Excel file rather than an image of a spreadsheet. (Note: An Adobe PDF file is not considered a native file unless the document was initially created as a PDF.)

In the event produced files require the use of proprietary software not commonly found in the workplace, the SEC will explore other format options with the producing party.

The proposed use of file de-duplication methodologies or computer-assisted review or technology-assisted review (TAR) during the processing of documents must be discussed with and approved by the legal and technical staff of the Division of Enforcement (ENF). If your production will be de-duplicated it is vital that you 1) preserve any unique metadata associated with the duplicate files, for example, custodian name and file location and, 2) make that unique metadata part of your production to the SEC.

General requirements for ALL document productions are:

- 1. A cover letter must be included with each production and should include the following information:
 - Case number, case name and requesting SEC staff member name
 - b. A list of each piece of media included in the production with its unique production volume number
 - c. A list of custodians, identifying the Bates range for each custodian
 - d. A list of redacted documents and the redaction reason
 - c. The time zone in which the emails were standardized during conversion
 - f. Whether the production contains native files produced from Mac operating system environments
- Data can be produced on CD, DVD, thumb drive, etc., using the media requiring the least number of deliverables and labeled with the following:
 - a. Case number
 - b. Production date
 - c. Producing party
 - d. Bates range (if applicable)
- All submissions must be organized by custodian unless otherwise instructed.
- All document family groups, i.e. email attachments, embedded files, etc., should be produced together and children files should follow parent files sequentially in the Bates numbering.
- All load-ready collections should include only one data load file and one image pointer file.
- All load-ready text must be produced as separate document-level text files.
- All load-ready collections should account for custodians in the custodian field.
- 8. All load-ready collections must provide the extracted contents of any container files to ensure all relevant files are produced as separate records.
- Audio files should be separated from data files if both are included in the production.
- 10. Only alphanumeric characters and the underscore character are permitted in file names and folder names. Special characters are not permitted.
- 11. All electronic productions submitted on media must be produced using industry standard self-extracting encryption software.
- 12. The SEC uses 7zip to access compressed files. Note that the SEC cannot accept files that use AES-256 Jpeg or pkAES-256-Cert Deflate compression methods, even if the files are created with 7zip. If you have any questions or need additional information, please reach out to the requesting SEC staff member.
- 13. Electronic productions of 30 GB or less are strongly encouraged to be submitted via Secure File Transfer. All Secure File Transfers should be sent to the SEC Centralized Production Unit (ENF-CPU@sec.gov) with a CC to the requesting SEC staff member. If you do not have your own Secure File Transfer application, you may reach out to the requesting SEC staff member for a link to the SEC system in order to upload your production. If using the SEC Secure File Transfer system, you will NOT be able to CC individuals outside the SEC on your upload transmission. Note that the SEC cannot accept productions made using file sharing sites such as Google Drive or Microsoft Office 365.
- 14. Productions containing BSA or SAR material must be encrypted. Secure File Transfer applications may be used to produce BSA or SAR material. BSA or SAR material should be segregated and appropriately marked as BSA or SAR, or should be produced separately from other case related records.
- 15. Passwords for electronic documents, files, compressed archives and encrypted media must be provided separately either via email or in a cover letter apart from the media.
- 16. All electronic productions should be produced free of computer viruses.
- 17. Before producing forensically collected images, parties should reach out to the requesting SEC staff member in order to discuss appropriate handling.
- 18. Before producing unique data sets (large sets of relational data, website reconstruction, chat room data, etc.), parties should reach out to the requesting SEC staff member in order to discuss an appropriate production format.
- Additional technical descriptions can be found in the addendum to this document.

Please note that productions sent to the SEC via United States Postal Service are subject to Mail Irradiation, and as a result electronic productions may be damaged.

Delivery Formats

Imaged Productions

The SEC prefers that all scanned paper and electronic file collections be produced in a structured format including industry standard load files, Bates numbered image files, native files and searchable document-level text files. Bates numbers should not contain spaces. Hyphens (-) and underscores (-) are acceptable.

1. Images

- Black and white images must be 300 DPI Group IV single-page TIFF files
- b. Color images must be produced in JPEG format
- File names cannot contain embedded spaces or special characters (including the comma)
- d. Folder names cannot contain embedded spaces or special characters (including the comma)
- e. All image files must have a unique file name, i.e. Bates number
- f. Images must be endorsed with sequential Bates numbers in the lower right corner of each image
- The number of image files per folder should not exceed 2,000 files g.
- h. Excel spreadsheets should have a placeholder image named by the Bates number of the file
- AUTOCAD/photograph files should be produced as a single page JPEG file

2. Image Cross-Reference File

The image cross-reference file (LOG or .OPT) links the images to the database records. It should be a comma-delimited file consisting of seven fields per line with a line in the cross-reference file for every image in the database with the following format:

ImageID, VolumeLabel, ImageFilePath, DocumentBreak, FolderBreak, BoxBreak, PageCount

3. Data File

The data file (.DAT) contains all of the fielded information that will be loaded into the database.

- The first line of the .DAT file must be a header row identifying the field names
- The .DAT file must use the following *Concordance*® default delimiters:

Comma ¶ ASCII character (020)

Quote b ASCII character (254)

- c. If the .DAT file is produced in Unicode format it must contain the byte order marker
- d. Date fields should be provided in the format: mm/dd/yyyy
- Date and time fields must be two separate fields
- The time zone must be included in all time fields f.
- If the production includes imaged emails and attachments, the attachment fields must be included to preserve the parent/child relationship between an email and its attachments
- An OCRPATH field must be included to provide the file path and name of the extracted text file on the produced storage media. The text file must be named after the FIRSTBATES. Do not include the text in the .DAT file.
- For productions with native files, a LINK field must be included to provide the file path and name of the native file on the produced storage media. The native file must be named after the FIRSTBATES.
- BEGATTACH and ENDATTACH fields must be two separate fields
- A complete list of metadata fields is available in Addendum A to this document

4. Text

Text must be produced as separate document-level text files, not as fields within the .DAT file. The text files must be named per the FIRSTBATES/Image Key and the full path to the text file (OCRPATII) should be included in the .DAT file. Text files may be in either ANSI or Unicode format, however, ALL text files must be in the same format within the same production. Note that productions containing text with foreign characters must produce text files in Unicode format to preserve the foreign characters. Text files must be in a separate folder, and the number of text files per folder should not exceed 2,000 files. There should be no special characters (including commas) in the folder names. For redacted documents, provide the full text for the redacted version.

Linked Native Files

Copies of original email and native file documents/attachments must be included for all electronic productions.

- a. Native file documents must be named per the FIRSTBATES number
- b. The full path of the native file must be provided in the .DAT file for the LINK field
- The number of native files per folder should not exceed 2,000 files

II. Native File Production without Load Files

With prior approval, native files may be produced without load files. Native file productions should not be Bates numbered. Native files must be produced as they are maintained in the normal course of business and organized by custodian-named file folders. Native email files (.PST or .MBOX) must be separated by custodian.

III. Adobe PDF File Production

With prior approval, Adobe PDF files may be produced in native file format.

- 1. All PDFs must be unitized at the document level, i.e. each PDF must represent a discrete document.
- 2. PDF files should be produced in separate folders named by the custodian. The folders should not contain any special characters (including commas).
- 3. All PDF files must contain embedded text that includes all discernible words within the document, not selected text or image only. This requires all layers of the PDF to be flattened first.
- 4. If PDF files are Bates endorsed, the PDF files must be named by the Bates range.

IV. Audio Files

Audio files from telephone recording systems must be produced in a format that is playable using Microsoft Windows Media PlayerTM. Additionally, the call information (metadata) related to each audio recording MUST be provided. The metadata file must be produced in a delimited text format. Field names must be included in the first row of the text file. The metadata must include, at a minimum, the following fields:

1) Caller Name: Caller's name or account/identification number

2) Originating Number: Caller's phone number3) Called Party Name: Called party's name

4) Terminating Number: Called party's phone number

5) Date: Date of call6) Time: Time of call

7) Filename: Filename of audio file

V. Video Files

Video files must be produced in a format that is playable using Microsoft Windows Media PlayerTM.

VI. Electronic Trade and Bank Records

When producing electronic trade records, bank records, or financial statements, provide the files in one of the following formats:

- 1. MS Excel spreadsheet with header information detailing the field structure. If any special codes exist in the dataset, a separate document must be provided that details all such codes. If details of the field structure do not fit in the header, a separate document must be provided that includes such details.
- 2. Delimited text file with header information detailing the field structure. The preferred delimiter is a vertical bar "|". If any special codes exist in the dataset, a separate document must be provided that details all such codes. If details of the field structure do not fit in the header, a separate document must be provided that includes such details.

VII. Electronic Phone Records

When producing an MS Excel spreadsheet for electronic phone records, provide the files in the following format:

- 1. MS Excel spreadsheet with header information detailing the field structure. If any special codes exist in the dataset, a separate document must be provided that details all such codes. If details of the field structure do not fit in the header, a separate document must be provided that includes such details. Data must be formatted in its native format (i.e. dates in a date format, numbers in an appropriate numerical format, and numbers with leading zeroes as text).
 - a. The metadata that must be included is outlined in **Addendum B** of this document. Each field of data must be loaded into a separate column. For example, Date and Start_Time must be produced in separate columns and not combined into a single column containing both pieces of information. Any fields of data that are provided in addition to those listed in **Addendum B** must also be loaded into separate columns.

Case 1:24-cv-01858-ACR Document 26-1 Filed 02/04/25 Page 586 of 933

Data Delivery Standards

VIII. Audit Workpapers

The SEC prefers for workpapers to be produced in two formats: (1) With Bates numbers in accordance with the SEC Data Delivery Standards; and (2) in native format via laptop computer, web-based viewing platform, or otherwise, allowing for viewing in the same format and organization as the firm's audit team. Prior to production of workpapers via laptop computer or web-based viewing platform, audit firms should contact the requesting SEC staff member for additional information and written agreements addressing use of software, access, and viewing protocols.

IX. Mobile Device Data

Before producing any mobile device data (including but not limited to text messages and application data) parties should reach out to the requesting SEC staff member in order to discuss the appropriate production format. Productions containing chat data from applications must be identified at the time of production and the following information must be provided to the requesting SEC staff member and the SEC Centralized Production Unit: chat application, chat data format, and how the length of a chat is determined (i.e. set duration of time, number of minutes without messages, etc.)

ADDENDUM A

The metadata of electronic document collections should be extracted and provided in a .DAT file using the field definition and formatting described below:

Field Name	Sample Data	Description	
FIRSTBATES	EDC0000001	First Bates number of native file document/email	
LASTBATES	EDC0000001	Last Bates number of native file document/email	
		**The LASTBATES field should be populated	
		for single page documents/emails.	
ATTACHRANGE	EDC0000001 - EDC0000015	Bates number of the first page of the parent	
		document to the Bates number of the last page of the	
		last attachment "child" document	
BEGATTACH	EDC0000001	First Bates number of attachment range	
ENDATTACH	EDC0000015	Last Bates number of attachment range	
PARENT_BATES	EDC0000001	First Bates number of parent document/Email **This PARENT_BATES field should be populated	
		in each record representing an attachment "child"	
		document	
CHILD BATES	EDC0000002; EDC0000014	First Bates number of "child" attachment(s); can be	
		more than one Bates number listed depending on the	
		number of attachments	
		**The CHILD BATES field should be populated in	
		each record representing a "parent" document	
CUSTODIAN	Smith, John	Email: Mailbox where the email resided	
		Native: Name of the individual or department from	
		whose files the document originated	
FROM	John Smith	Email: Sender	
		Native: Author(s) of document	
		**semi-colon should be used to separate multiple	
		entries	
TO	Coffman, Janice; LeeW	Recipient(s)	
	[mailto:LecW@MSN.com]	**semi-colon should be used to separate multiple	
		entries	
CC	Frank Thompson [mailto:	Carbon copy recipient(s)	
	frank_Thompson@cdt.com]	**semi-colon should be used to separate multiple	
D.C.C.		entries	
BCC	John Cain	Blind carbon copy recipient(s)	
		**semi-colon should be used to separate multiple	
SUBJECT	Board Meeting Minutes	entries Email: Subject line of the email	
SUBJECT	Board Meeting Minutes	Native: Title of document (if available)	
FILE_NAME	BoardMeetingMinutes.docx	Native: Name of the original native file, including	
TILL_WANG	Board.viceting.vindies.docx	extension	
DATE SENT	10/12/2010	Email: Date the email was sent	
DATE SERVE	10/12/2010	Native: (empty)	
TIME SENT/TIME	07:05 PM GMT	Email: Time the email was sent/ Time zone in which	
ZONE		the emails were standardized during conversion.	
		Native: (empty)	
		**This data must be a separate field and cannot be	
		combined with the DATE_SENT field	
TIME_ZONE	GMT	The time zone in which the emails were standardized	
_		during conversion.	
		Email: Time zone	
		Native: (empty)	
	·		

LINK	D:\001\EDC0000001.msg	Hyperlink to the email or native file document **The linked file must be named per the FIRSTBATES number	
MIME_TYPE	application/msword	The content type of an email or native file document as identified/extracted from the header	
FILE_EXTEN	MSG	The file type extension representing the email or native file document; will vary depending on the format	
AUTHOR	John Smith	Email: (empty) Native: Author of the document	
LAST_AUTHOR	Jane Doe	Email: (empty) Native: Last Author of the document	
DATE_CREATED	10/10/2010	Email: (empty) Native: Date the document was created	
TIME_CREATED/T IME_ZONE	10:25 AM GMT	Email: (empty) Native: Time the document was created including time zone **This data must be a separate field and cannot be combined with the DATE_CREATED field	
DATE_MOD	10/12/2010	Email: (empty) Native: Date the document was last modified	
TIME_MOD/TIME_ ZONE	07:00 PM GMT	Email: (empty) Native: Time the document was last modified including the time zone **This data must be a separate field and cannot be combined with the DATE_MOD field	
DATE_ACCESSD	10/12/2010	Email: (empty) Native: Date the document was last accessed	
TIME_ACCESSD/T IME_ZONE	07:00 PM GMT	Email: (empty) Native: Time the document was last accessed including the time zone **This data must be a separate field and cannot be combined with the DATE_ACCESSD field	
PRINTED_DATE	10/12/2010	Email: (empty) Native: Date the document was last printed	
FILE_SIZE	5,952	Size of native file document/email in KB	
PGCOUNT	1	Number of pages in native file document/email	
PATH	J:\Shared\SmithJ\October Agenda.doc	Email: (empty) Native: Path where native file document was stored including original file name.	
INTFILEPATH	Personal Folders\Deleted Items\Board Meeting Minutes.msg	Email: original location of email including original file name. Native: (empty)	
INTMSGID	<000805c2c71bS75977050Scb 8306d1@MSN>	Email: Unique Message ID Native: (empty)	

Case 1:24-cv-01858-ACR Document 26-1 Filed 02/04/25 Page 589 of 933 Data Delivery Standards

HEADER	Return-Path: <example_from@dc.edu> X-SpamCatcher-Score:1[X] Received:from[136.167.40.119] (HELO dc.edu) by fe3.dc.edu (CommuniGate Pro SMTP4.1.8) with ESMTP-TLS id 61258719 for example_to@mail.dc.edu; Mon, 23 Aug 2004 11:40:10 - 0400 Message-ID: <<4129F3CA.2020509@dc.edu> Date: Mon, 23 Aug 2005 11:40:36 -400 From: Taylor Evans <example_from@dc.edu> User-Agent:Mozilla/5.0 (Windows;U; Windows NT 5.1: en-US;rv:1.0.1) Gecko/20020823 Netscape/7.0 X-Accept-Language:en-us,en MIME-Version:1.0 To: Jon Smith <example_to@mail.dc.edu> Subject:Business Development Meeting Content-Type: text/plain;charset=us-ascii; format=flowed Content-Transfer-Encoding:7bit</example_to@mail.dc.edu></example_from@dc.edu></example_from@dc.edu>	
SHA256	AD6128C5CA40164AF71A1E FC800E12D2F195CE07BB5F8 C813B0888A2DDE6A06F	SHA-256 hash value of the document.
OCRPATH	TEXT/001/EDC0000001.txt	Path to extracted text of the native file

Sample Image Cross-Reference File:

IMG0000001,,E:\001\IMG0000001.TIF,Y,,,
IMG0000002,,E:\001\IMG0000002.TIF,,,,
IMG0000003,,E:\001\IMG0000003.TIF,,,,
IMG0000004,,E:\001\IMG0000005.TIF,Y,,,
IMG0000005,,E:\001\IMG0000005.TIF,Y,,,
IMG0000006,,E:\001\IMG0000006.TIF,,,,,

ADDENDUM B

For Electronic Phone Records, include the following fields in separate columns:

For Calls:

- 1) Account Number
- 2) Connection Date Date the call was received or made
- 3) Connection Time Time call was received or made
- 4) Seizure Time Time it took for the call to be placed in seconds
- 5) Originating Number Phone that placed the call
- 6) Terminating Number Phone that received the call
- 7) Elapsed Time The length of time the call lasted, preferably in seconds
- 8) End Time The time the call ended
- 9) Number Dialed Actual number dialed
- 10) IMEI Originating Unique id to phone used to make call
- 11) IMEI Terminating-Unique id to phone used to receive call
- 12) IMSI Originating Unique id to phone used to make call
- 13) IMSI Terminating- Unique id to phone used to receive call
- 14) Call Codes Identify call direction or other routing information
- 15) Time Zone Time Zone in which the call was received or placed, if applicable

For Text messages:

- 1) Account Number
- 2) Connection Date Date the text was received or made
- 3) Connection Time Time text was received or made
- 4) Originating Number Who placed the text
- 5) Terminating Number Who received the text
- 6) IMEI Originating Unique id to phone used to make text
- 7) IMEI Terminating—Unique id to phone used to receive text
- 8) IMSI Originating Unique id to phone used to make text
- 9) IMSI Terminating- Unique id to phone used to receive text
- 10) Text Code Identify text direction, or other text routing information
- 11) Text Type Code Type of text message (sent SMS, MMS, or other)
- 12) Time Zone Time Zone in which the call was received or placed, if applicable

For Mobile Data Usage:

- 1) Account Number
- Connection Date Date the data was received or made
- 3) Connection Time Time data was received or made
- 4) Originating number Number that used data
- 5) IMEI Originating Unique id of phone that used data
- 6) IMSI Originating Unique id of phone that used data
- 7) Data or Data codes Identify data direction, or other data routing information
- 8) Time Zone Time Zone in which the call was received or placed, if applicable

SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549

Supplemental Information for Persons Requested to Supply Information Voluntarily or Directed to Supply Information Pursuant to a Commission Subpoena

A. False Statements and Documents

Section 1001 of Title 18 of the United States Code provides that fines and terms of imprisonment may be imposed upon:

[W]hoever, in any matter within the jurisdiction of the executive, legislative, or judicial branch of the Government of the United States, knowingly and willfully--

- (1) falsifies, conceals, or covers up by any trick, scheme, or device a material fact;
- (2) makes any materially false, fictitious, or fraudulent statement or representation; or
- (3) makes or uses any false writing or document knowing the same to contain any materially false, fictitious, or fraudulent statement or entry.

Section 1519 of Title 18 of the United States Code provides that fines and terms of imprisonment may be imposed upon:

Whoever knowingly alters, destroys, mutilates, conceals, covers up, falsifies, or makes a false entry in any record, document, or tangible object with the intent to impede, obstruct, or influence the investigation or proper administration of any matter within the jurisdiction of any department or agency of the United States . . ., or in relation to or contemplation of any such matter.

B. Testimony

If your testimony is taken, you should be aware of the following:

- 1. Record. Your testimony will be transcribed by a reporter. If you desire to go off the record, please indicate this to the Commission employee taking your testimony, who will determine whether to grant your request. The reporter will not go off the record at your, or your counsel's, direction.
- 2. Counsel. You have the right to be accompanied, represented and advised by counsel of your choice. Your counsel may advise you before, during and after your testimony; question you briefly at the conclusion of your testimony to clarify any of the answers you give during testimony; and make summary notes during your testimony solely for your use. If you are accompanied by counsel, you may consult privately.

If you are not accompanied by counsel, please advise the Commission employee taking your testimony if, during the testimony, you desire to be accompanied, represented and advised by counsel. Your testimony will be adjourned once to afford you the opportunity to arrange to be so accompanied, represented or advised.

You may be represented by counsel who also represents other persons involved in the Commission's investigation. This multiple representation, however, presents a potential conflict of interest if one client's interests are or may be adverse to another's. If you are represented by counsel who also represents other persons involved in the investigation, the Commission will assume that you and counsel have discussed and resolved all issues concerning possible conflicts of interest. The choice of counsel, and the responsibility for that choice, is yours.

3. Transcript Availability. Rule 6 of the Commission's Rules Relating to Investigations, 17 CFR 203.6, states:

A person who has submitted documentary evidence or testimony in a formal investigative proceeding shall be entitled, upon written request, to procure a copy of his documentary evidence or a transcript of his testimony on payment of the appropriate fees: *Provided, however*, That in a nonpublic formal investigative proceeding the Commission may for good cause deny such request. In any event, any witness, upon proper identification, shall have the right to inspect the official transcript of the witness' own testimony.

If you wish to purchase a copy of the transcript of your testimony, the reporter will provide you with a copy of the appropriate form. Persons requested to supply information voluntarily will be allowed the rights provided by this rule.

4. *Perjury.* Section 1621 of Title 18 of the United States Code provides that fines and terms of imprisonment may be imposed upon:

Whoever--

(1) having taken an oath before a competent tribunal, officer, or person, in any case in which a law of the United States authorizes an oath to be administered, that he will testify, declare,

depose, or certify truly, or that any written testimony, declaration, deposition, or certificate by him subscribed, is true, willfully and contrary to such oath states or subscribes any material matter which he does not believe to be true; or

- (2) in any declaration, certificate, verification, or statement under penalty of perjury as permitted under section 1746 of title 28, United States Code, willfully subscribes as true any material matter which he does not believe to be true.
- 5. Fifth Amendment and Voluntary Testimony. Information you give may be used against you in any federal, state, local or foreign administrative, civil or criminal proceeding brought by the Commission or any other agency.

You may refuse, in accordance with the rights guaranteed to you by the Fifth Amendment to the Constitution of the United States, to give any information that may tend to incriminate you.

If your testimony is not pursuant to subpoena, your appearance to testify is voluntary, you need not answer any question, and you may leave whenever you wish. Your cooperation is, however, appreciated.

6. Formal Order Availability. If the Commission has issued a formal order of investigation, it will be shown to you during your testimony, at your request. If you desire a copy of the formal order, please make your request in writing.

C. Submissions and Settlements

Rule 5(c) of the Commission's Rules on Informal and Other Procedures, 17 CFR 202.5(c), states:

Persons who become involved in . . . investigations may, on their own initiative, submit a written statement to the Commission setting forth their interests and position in regard to the subject matter of the investigation. Upon request, the staff, in its discretion, may advise such persons of the general nature of the investigation, including the indicated violations as they pertain to them, and the amount of time that may be available for preparing and submitting a statement prior to the presentation of a staff recommendation to the Commission for the commencement of an administrative or injunction proceeding. Submissions by interested persons should be forwarded to the appropriate Division Director or Regional Director with a copy to the staff members conducting the investigation and should be clearly referenced to the specific investigation to which they relate. In the event a recommendation for the commencement of an enforcement proceeding is presented by the staff, any submissions by interested persons will be forwarded to the Commission in conjunction with the staff memorandum.

The staff of the Commission routinely seeks to introduce submissions made pursuant to Rule 5(c) as evidence in Commission enforcement proceedings, when the staff deems appropriate.

Rule 5(f) of the Commission's Rules on Informal and Other Procedures, 17 CFR 202.5(f), states:

In the course of the Commission's investigations, civil lawsuits, and administrative proceedings, the staff, with appropriate authorization, may discuss with persons involved the disposition of such matters by consent, by settlement, or in some other manner. It is the policy of the Commission, however, that the disposition of any such matter may not, expressly or impliedly, extend to any criminal charges that have been, or may be, brought against any such person or any recommendation with respect thereto. Accordingly, any person involved in an enforcement matter before the Commission who consents, or agrees to consent, to any judgment or order does so solely for the purpose of resolving the claims against him in that investigative, civil, or administrative matter and not for the purpose of resolving any criminal charges that have been, or might be, brought against him. This policy reflects the fact that neither the Commission nor its staff has the authority or responsibility for instituting, conducting, settling, or otherwise disposing of criminal proceedings. That authority and responsibility are vested in the Attorney General and representatives of the Department of Justice.

D. Freedom of Information Act

The Freedom of Information Act, 5 U.S.C. 552 (the "FOIA"), generally provides for disclosure of information to the public. Rule 83 of the Commission's Rules on Information and Requests, 17 CFR 200.83, provides a procedure by which a person can make a written request that information submitted to the Commission not be disclosed under the FOIA. That rule states that no determination as to the validity of such a request will be made until a request for disclosure of the information under the FOIA is received. Accordingly, no response to a request that information not be disclosed under the FOIA is necessary or will be given until a request for disclosure under the FOIA is received. If you desire an acknowledgment of receipt of your written request that information not be disclosed under the FOIA, please provide a duplicate request, together with a stamped, self-addressed envelope.

E. Authority for Solicitation of Information

Persons Directed to Supply Information Pursuant to Subpoena. The authority for requiring production of information is set forth in the subpoena. Disclosure of the information to the Commission is mandatory, subject to the valid assertion of any legal right or privilege you might have.

Persons Requested to Supply Information Voluntarily. One or more of the following provisions authorizes the Commission to solicit the information requested: Sections 19 and/or 20 of the Securities Act of 1933; Section 21 of the Securities Exchange Act of 1934; Section 321 of the Trust Indenture Act of 1939; Section 42 of the Investment Company Act of 1940; Section 209 of the Investment Advisers Act of 1940; and 17 CFR 202.5. Disclosure of the requested information to the Commission is voluntary on your part.

F. Effect of Not Supplying Information

Persons Directed to Supply Information Pursuant to Subpoena. If you fail to comply with the subpoena, the Commission may seek a court order requiring you to do so. If such an order is obtained and you thereafter fail to supply the information, you may be subject to civil and/or criminal sanctions for contempt of court. In addition, Section 21(c) of the Securities Exchange Act of 1934, Section 42(c) of the Investment Company Act of 1940, and Section 209(c) of the Investment Advisers Act of 1940 provide that fines and terms of imprisonment may be imposed upon any person who shall, without just cause, fail or refuse to attend and testify or to answer any lawful inquiry, or to produce books, papers, correspondence, memoranda, and other records in compliance with the subpoena.

Persons Requested to Supply Information Voluntarily. There are no direct sanctions and thus no direct effects for failing to provide all or any part of the requested information.

G. Principal Uses of Information

The Commission's principal purpose in soliciting the information is to gather facts in order to determine whether any person has violated, is violating, or is about to violate any provision of the federal securities laws or rules for which the Commission has enforcement authority, such as rules of securities exchanges and the rules of the Municipal Securities Rulemaking Board. Facts developed may, however, constitute violations of other laws or rules. Information provided may be used in Commission and other agency enforcement proceedings. Unless the Commission or its staff explicitly agrees to the contrary in writing, you should not assume that the Commission or its staff acquiesces in, accedes to, or concurs or agrees with, any position, condition, request, reservation of right, understanding, or any other statement that purports, or may be deemed, to be or to reflect a limitation upon the Commission's receipt, use, disposition, transfer, or retention, in accordance with applicable law, of information provided.

H. Routine Uses of Information

The Commission often makes its files available to other governmental agencies, particularly United States Attorneys and state prosecutors. There is a likelihood that information supplied by you will be made available to such agencies where appropriate. Whether or not the Commission makes its files available to other governmental agencies is, in general, a confidential matter between the Commission and such other governmental agencies.

Set forth below is a list of the routine uses which may be made of the information furnished.

- 1. To appropriate agencies, entities, and persons when (1) the SEC suspects or has confirmed that there has been a breach of the system of records, (2) the SEC has determined that as a result of the suspected or confirmed breach there is a risk of harm to individuals, the SEC (including its information systems, programs, and operations), the Federal Government, or national security; and (3) the disclosure made to such agencies, entities, and persons is reasonably necessary to assist in connection with the SEC's efforts to respond to the suspected or confirmed breach or to prevent, minimize, or remedy such harm.
- 2. To other Federal, state, local, or foreign law enforcement agencies; securities self-regulatory organizations; and foreign financial regulatory authorities to assist in or coordinate regulatory or law enforcement activities with the SEC.
- 3. To national securities exchanges and national securities associations that are registered with the SEC, the Municipal Securities Rulemaking Board; the Securities Investor Protection Corporation; the Public Company Accounting Oversight Board; the Federal banking authorities, including, but not limited to, the Board of Governors of the Federal Reserve System, the Comptroller of the Currency, and the Federal Deposit Insurance Corporation; state securities regulatory agencies or organizations; or regulatory authorities of a foreign government in connection with their regulatory or enforcement responsibilities.
- 4. By SEC personnel for purposes of investigating possible violations of, or to conduct investigations authorized by, the Federal securities laws.
- 5. In any proceeding where the Federal securities laws are in issue or in which the Commission, or past or present members of its staff, is a party or otherwise involved in an official capacity.
- 6. In connection with proceedings by the Commission pursuant to Rule 102(e) of its Rules of Practice, 17 CFR 201.102(e).

- 7. To a bar association, state accountancy board, or other Federal, state, local, or foreign licensing or oversight authority; or professional association or self-regulatory authority to the extent that it performs similar functions (including the Public Company Accounting Oversight Board) for investigations or possible disciplinary action.
- 8. To a Federal, state, local, tribal, foreign, or international agency, if necessary to obtain information relevant to the SEC's decision concerning the hiring or retention of an employee; the issuance of a security clearance; the letting of a contract; or the issuance of a license, grant, or other benefit.
- 9. To a Federal, state, local, tribal, foreign, or international agency in response to its request for information concerning the hiring or retention of an employee; the issuance of a security clearance; the reporting of an investigation of an employee; the letting of a contract; or the issuance of a license, grant, or other benefit by the requesting agency, to the extent that the information is relevant and necessary to the requesting agency's decision on the matter.
- 10. To produce summary descriptive statistics and analytical studies, as a data source for management information, in support of the function for which the records are collected and maintained or for related personnel management functions or manpower studies; may also be used to respond to general requests for statistical information (without personal identification of individuals) under the Freedom of Information Act.
- 11. To any trustee, receiver, master, special counsel, or other individual or entity that is appointed by a court of competent jurisdiction, or as a result of an agreement between the parties in connection with litigation or administrative proceedings involving allegations of violations of the Federal securities laws (as defined in section 3(a)(47) of the Securities Exchange Act of 1934, 15 U.S.C. 78c(a)(47)) or pursuant to the Commission's Rules of Practice, 17 CFR 201.100 through 900 or the Commission's Rules of Fair Fund and Disgorgement Plans, 17 CFR 201.1100 through 1106, or otherwise, where such trustee, receiver, master, special counsel, or other individual or entity is specifically designated to perform particular functions with respect to, or as a result of, the pending action or proceeding or in connection with the administration and enforcement by the Commission of the Federal securities laws or the Commission's Rules of Practice or the Rules of Fair Fund and Disgorgement Plans.
- 12. To any persons during the course of any inquiry, examination, or investigation conducted by the SEC's staff, or in connection with civil litigation, if the staff has reason to believe that the person to whom the record is disclosed may have further information about the matters related therein, and those matters appeared to be relevant at the time to the subject matter of the inquiry.
- 13. To interns, grantees, experts, contractors, and others who have been engaged by the Commission to assist in the performance of a service related to this system of records and who need access to the records for the purpose of assisting the Commission in the efficient administration of its programs, including by performing clerical, stenographic, or data analysis functions, or by reproduction of records by electronic or other means. Recipients of these records shall be required to comply with the requirements of the Privacy Act of 1974, as amended, 5 U.S.C.
- 14. In reports published by the Commission pursuant to authority granted in the Federal securities laws (as such term is defined in section 3(a)(47) of the Securities Exchange Act of 1934, 15 U.S.C. 78c(a)(47)), which authority shall include, but not be limited to, section 21(a) of the Securities Exchange Act of 1934, 15 U.S.C. 78u(a)).
- 15. To members of advisory committees that are created by the Commission or by Congress to render advice and recommendations to the Commission or to Congress, to be used solely in connection with their official designated functions.
- 16. To any person who is or has agreed to be subject to the Commission's Rules of Conduct, 17 CFR 200.735-1 through 200.735-18, and who assists in the investigation by the Commission of possible violations of the Federal securities laws (as such term is defined in section 3(a)(47) of the Securities Exchange Act of 1934, 15 U.S.C. 78c(a)(47)), in the preparation or conduct of enforcement actions brought by the Commission for such violations, or otherwise in connection with the Commission's enforcement or regulatory functions under the Federal securities laws.
- 17. To a Congressional office from the record of an individual in response to an inquiry from the Congressional office made at the request of that individual.
- 18. To members of Congress, the press, and the public in response to inquiries relating to particular Registrants and their activities, and other matters under the Commission's jurisdiction.
- 19. To prepare and publish information relating to violations of the Federal securities laws as provided in 15 U.S.C. 78c(a)(47)), as amended.
- 20. To respond to subpoenas in any litigation or other proceeding.
- 21. To a trustee in bankruptcy.
- 22. To any governmental agency, governmental or private collection agent, consumer reporting agency or commercial reporting agency, governmental or private employer of a debtor, or any other person, for collection,

including collection by administrative offset, Federal salary offset, tax refund offset, or administrative wage garnishment, of amounts owed as a result of Commission civil or administrative proceedings.

23. To another Federal agency or Federal entity, when the SEC determines that information from this system of records is reasonably necessary to assist the recipient agency or entity in (1) responding to a suspected or confirmed breach or (2) preventing, minimizing, or remedying the risk of harm to individuals, the recipient agency or entity (including its information systems, programs, and operations), the Federal Government, or national security, resulting from a suspected or confirmed breach.

Page 595 of 933

* * * * *

Small Business Owners: The SEC always welcomes comments on how it can better assist small businesses. If you would like more information, or have questions or comments about federal securities regulations as they affect small businesses, please contact the Office of Small Business Policy, in the SEC's Division of Corporation Finance, at 202-551-3460. If you would prefer to comment to someone outside of the SEC, you can contact the Small Business Regulatory Enforcement Ombudsman at http://www.sba.gov/ombudsman or toll free at 888-REG-FAIR. The Ombudsman's office receives comments from small businesses and annually evaluates federal agency enforcement activities for their responsiveness to the special needs of small business.

[FOR DOMESTIC U.S. RECORDS]

DECLARATION OF [Insert Name] CERTIFYING RECORDS OF REGULARLY CONDUCTED BUSINESS ACTIVITY

I, the undersigned, [insert name], pursuant to 28 U.S.C. § 1746, declare that:

- 1. I am employed by [insert name of company] as [insert position] and by reason of my position am authorized and qualified to make this declaration. [if possible supply additional information as to how person is qualified to make declaration, e.g., I am custodian of records, I am familiar with the company's recordkeeping practices or systems, etc.]
- 2. I further certify that the documents [attached hereto or submitted herewith] and stamped [insert bates range] are true copies of records that were:
 - (a) made at or near the time of the occurrence of the matters set forth therein, by, or from information transmitted by, a person with knowledge of those matters;
 - (b) kept in the course of regularly conducted business activity; and
 - (c) made by the regularly conducted business activity as a regular practice.

I declare under penalty of perjury that the foregoing is true and correct. Executed on [date].

[Nan	ne]	



UNITED STATES SECURITIES AND EXCHANGE COMMISSION

100 PEARL STREET, SUITE 20-100 NEW YORK, NY 10004-2616

DIVISION OF ENFORCEMENT

March 29, 2024

<u>VIA PERSONAL SE</u>	RVICE
(b)(6); (b)(7)(C)	

Re: Ethereum 2.0 (C-08950)

Dear (b)(6); (b)(7)(C)

The staff of the United States Securities and Exchange Commission is conducting an investigation in the matter identified above. The enclosed subpoena has been issued to you as part of this investigation. The subpoena requires you to provide us documents and give sworn testimony. Please note that if you comply with the instructions for producing documents, you will not need to appear for testimony at the indicated time.

Please read the subpoena and this letter carefully. This letter answers some questions you may have about the subpoena. You should also read the enclosed SEC Form 1662. If you do not comply with this subpoena, the SEC may bring an action in Federal Court to enforce this subpoena. Failure to comply with a court order enforcing this subpoena may result in the court imposing a fine, imprisonment or both.

Producing Documents

What materials do I have to produce?

The subpoena requires you to provide us the documents described in the attachment to the subpoena. You must provide these documents by April 12, 2024. The attachment to the subpoena defines some terms (such as "document") before listing what you must provide.

You should produce each and every document in your possession, custody, or control, including any documents that are not in your immediate possession but that you have the ability to obtain. All responsive documents shall be produced as they are kept in the usual course of business, and shall be organized and labeled to correspond with the numbered paragraphs in the

subpoena attachment. In that regard, documents should be produced in a unitized manner, i.e., delineated with staples or paper clips to identify the document boundaries.

Documents responsive to this subpoena may be in electronic or paper form. Electronic documents such as email should be produced in accordance with the attached document entitled SEC Data Delivery Standards (the "Standards"). If you have any questions concerning the production of documents in an electronic format, please contact me as soon as possible but in any event before producing documents. All electronic documents responsive to the document subpoena, including all metadata, must also be secured and retained in their native software format and stored in a safe place. The staff may later request or require that you produce the native format.

For documents in paper format, you may send the originals, or, if you prefer, you may send copies of the originals. The Commission cannot reimburse you for the copying costs. If you are sending copies, the staff requests that you scan (rather than photocopy) hard copy documents and produce them in an electronic format consistent with the Standards. Alternatively, you may send us photocopies of the documents in paper format. If you choose to send copies, you must secure and retain the originals and store them in a safe place. The staff may later request or require that you produce the originals.

Whether you scan or photocopy documents, the copies must be identical to the originals, including even faint marks or print. Also, please note that if copies of a document differ in any way, they are considered separate documents and you must send each one. For example, if you have two copies of the same letter, but only one of them has handwritten notes on it, you must send both the clean copy and the one with notes.

If you do send us scanned or photocopied documents, please put an identifying notation on each page of each document to indicate that you produced it, and number the pages of all the documents submitted. (For example, if Jane Doe sends documents to the staff, she may number the pages JD-1, JD-2, JD-3, etc., in a blank corner of the documents.) Please make sure the notation and number do not conceal any writing or marking on the document. If you send us originals, please do not add any identifying notations.

In producing a photocopy of an original document that contains post-it(s), notation flag(s), or other removable markings or attachments which may conceal all or a portion of the markings contained in the original document, photocopies of the original document both with and without the relevant post-it(s), notation flag(s), or removable markings or attachments should be produced.

Do I need to send anything else?

You should enclose a list briefly describing each item you send. The list should state to which numbered paragraph(s) in the subpoena attachment each item responds. A copy of the subpoena should be included with the documents that are produced.

Passwords for documents, files, compressed archives, and encrypted media should be provided separately either via email addressed to <u>ENF-CPU@sec.gov</u>, or in a separate cover letter mailed separately from the data. **Password correspondence should reference case number, case name and requesting SEC staff member.**

Please include a cover letter stating whether you believe you have met your obligations under the subpoena by searching carefully and thoroughly for everything called for by the subpoena, and sending it all to us. Correspondence should reference case number, case name and requesting SEC staff member.

Please also provide a narrative description describing what you did to identify and collect documents responsive to the subpoena. At a minimum, the narrative should describe:

- who searched for documents;
- who reviewed documents found to determine whether they were responsive;
- what sources were searched (e.g., computer files, CDs, DVDs, thumb drives, flash
 drives, online storage media, hard copy files, diaries, datebooks, planners, filing
 cabinets, home office, work office, voice mails, home email, webmail, work email,
 backup tapes or other media);
- what third parties, if any, were contacted to obtain responsive documents (e.g., phone companies for phone records, brokerage firms for brokerage records); and
- where the original electronic and hardcopy documents are maintained and by whom.

For any documents that qualify as records of regularly conducted activities under Federal Rule of Evidence 902(11), please complete a business records certification (a sample of which is enclosed) and return it with the document production.

What if I do not send everything described in the attachment to the subpoena?

The subpoena requires you to send <u>all</u> the materials described in it. If, for any reason including a claim of attorney-client privilege – you do not produce something called for by the subpoena, you should submit a list of what you are not producing. The list should describe each item separately, noting:

- its author(s);
- its date;
- its subject matter;
- the name of the person who has the item now, or the last person known to have it;
- the names of everyone who ever had the item or a copy of it, and the names of everyone who was told the item's contents;
- the reason you did not produce the item; and

• the specific request in the subpoena to which the document relates.

If you withhold anything on the basis of a claim of attorney-client privilege or attorney work product protection, you should identify the attorney and client involved. If you withhold anything on the basis of the work product doctrine, you should also identify the litigation in anticipation of which the document was prepared.

If documents responsive to this subpoena no longer exist because they have been lost, discarded, or otherwise destroyed, you should identify such documents and give the date on which they were lost, discarded or destroyed.

Where should I send the materials?

Please send the materials to:

ENF-CPU (U.S. Securities & Exchange Commission) 14420 ALBEMARLE POINT PL Suite 102 CHANTILLY, VA 20151-1750

For smaller electronic productions under 10MB in size, the materials may be emailed to the following email address: <u>ENF-CPU@sec.gov</u> with copies to <u>bold to the following email address: <u>ENF-CPU@sec.gov</u> with copies to <u>bold to the following email address: <u>ENF-CPU@sec.gov</u> with copies to <u>bold to the following email address: <u>ENF-CPU@sec.gov</u>. If you would like to use the Commission's secure electronic transfer site, Accellion/Kiteworks, please contact me and I will send you a link.</u></u></u>

Testifying

Where and when do I testify?

The subpoena requires you to come to the Commission's offices at, New York Regional Office, 100 Pearl Street, Suite 20-100, New York, NY 10004-2616 at 9:30 a.m. on April 12, 2024 to testify under oath in the matter identified on the subpoena.

A background questionnaire is also enclosed. During your testimony, the staff intends to ask background questions concerning, among other things, your residences, telephone numbers, education and employment. To expedite that part of the testimony, we request that you complete the enclosed questionnaire on a voluntary basis and provide it to the staff prior to your testimony.

May I have a lawyer help me respond to the subpoena?

Yes. You have the right to consult with and be represented by your own lawyer in this matter. If you are represented by a lawyer when you testify, your lawyer may advise and accompany you when you testify. We cannot give you legal advice.

What will the Commission do with the testimony I provide?

The enclosed SEC Form 1662 explains how we may use the information you provide to the Commission. This form also has other important information for you. Please read it carefully.

Has the Commission determined that anyone has done anything wrong?

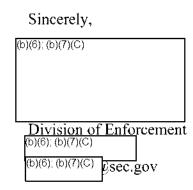
This investigation is a non-public, fact-finding inquiry. We are trying to determine whether there have been any violations of the federal securities laws. The investigation does not mean that we have concluded that anyone has violated the law. Also, the investigation does not mean that we have a negative opinion of any person, entity or security.

Important Policy Concerning Settlements

Please note that, in any matter in which enforcement action is ultimately deemed to be warranted, the Division of Enforcement will not recommend any settlement to the Commission unless the party wishing to settle certifies, under penalty of perjury, that all documents responsive to Commission subpoenas and formal and informal document requests in this matter have been produced.

I have read this letter, the subpoena, and the SEC Form 1662, but I still have questions. What should I do?

If you have any other questions, you may call me at [b)(6); (b)(7)(C) If you are represented by a lawyer, you should have your lawyer contact me.



Enclosures: Subpoena and Attachment

SEC Form 1662

Declaration Certifying Records Background Questionnaire



SUBPOENA

UNITED STATES OF AMERICA SECURITIES AND EXCHANGE COMMISSION

In the Matter of Ethereum 2.0 (C-08950)

To:	(b)(6); (b)(7)(C)

YOU MUST PRODUCE everything specified in the Attachment to this subpoena to officers of the Securities and Exchange Commission, at the place, date and time specified below:

ENF-CPU, U.S. Securities and Exchange Commission, 14420 Albemarle Point Pl, Suite 102, Chantilly, VA 20151-1750, no later than April 12, 2024, at 9:30 a.m.

YOU MUST TESTIFY before officers of the Securities and Exchange Commission, at the place, date and time specified below:

Securities and Exchange Commission, New York Regional Office, 100 Pearl Street, Suite 20-100, New York, NY 10004-2616 on April 12, 2024 at 9:30 a.m.

FEDERAL LAW REQUIRES YOU TO COMPLY WITH THIS SUBPOENA.

If you do not comply with this subpoena, the SEC may bring an action in Federal Court to enforce this subpoena. Failure to comply with a court order enforcing this subpoena may result in the court imposing a fine, imprisonment, or both.

Ву:	(b)(6); (b)(7)(C)	Date:	March 29, 2024
	U.S. Securities and Exchange Commission		
	New York Regional Office 100 Pearl Street, Suite 20-100		
	New York, NY 10004-2616		

I am an officer of the U.S. Securities and Exchange Commission authorized to issue subpoenas in this matter. The Securities and Exchange Commission has issued a formal order authorizing this investigation under Section 20(a) of the Securities Act of 1933.

NOTICE TO WITNESS: If you claim a witness fee or mileage, submit this subpoena with the claim voucher.

SUBPOENA ATTACHMENT FOR (b)(6); (b)(7)(C) March 29, 2024

In the Matter of Ethereum 2.0 (C-08950)

A. Definitions

As used in this document subpoena, the words and phrases listed below shall have the following meanings:

- 1. "Relevant Period" means July 1, 2018 to the present.
- 2. "The Merge" or "Ethereum 2.0" means the transition by the Ethereum blockchain of its consensus mechanism from proof-of-work to proof-of-stake.
- 3. "Beacon Chain" means the original proof-of-stake blockchain that was launched in 2020 that ran alongside the original proof-of-work Ethereum blockchain.
- 4. "Document" includes, but is not limited to, any written, printed, or typed matter including, but not limited to all drafts and copies bearing notations or marks not found in the original, letters and correspondence, interoffice communications, slips, tickets, records, worksheets, financial records, accounting documents, bookkeeping documents, memoranda, reports, manuals, telephone logs, telegrams, facsimiles, messages of any type, telephone messages, voice mails, tape recordings, notices, instructions, minutes, summaries, notes of meetings, file folder markings, and any other organizational indicia, purchase orders, information recorded by photographic process, including microfilm and microfiche, computer printouts, spreadsheets, and other electronically stored information, including but not limited to writings, drawings, graphs, charts, photographs, sound recordings, images, and other data or data compilations that are stored in any medium from which information can be retrieved, obtained, manipulated, or translated.
- 5. "Communication" means any correspondence, contact, discussion, e-mail, instant message, or any other kind of oral or written exchange or transmission of information (in the form of facts, ideas, inquiries, or otherwise), including but not limited to those made on Social Media Services, and any response thereto between two or more Persons or entities, including, without limitation, all telephone conversations, face-to-face meetings or conversations, internal or external discussions, or exchanges of a Document or Documents.
- 6. "Concerning" means directly or indirectly, in whole or in part, describing, constituting, evidencing, recording, evaluating, substantiating, concerning, referring to, alluding to, in connection with, commenting on, relating to, regarding, discussing, showing, analyzing or reflecting.
- 7. "Person" means a natural person, firm, association, organization, partnership, business, trust, corporation, bank or any other private or public entity.

- 8. "Social Media Service" means any social media or messaging service, including, but not limited to, Twitter, Discord, Medium, Telegram, Facebook, Instagram, Slack, WeChat, Reddit, or YouTube.
- 9. The term "you" and "your" means the Person or entity to whom this subpoena was issued.
- 10. To the extent necessary to bring within the scope of this subpoena any information or Documents that might otherwise be construed to be outside its scope:
 - a. the word "or" means "and/or";
 - b. the word "and" means "and/or";
 - c. the functional words "each," "every" "any" and "all" shall each be deemed to include each of the other functional words;
 - d. the masculine gender includes the female gender and the female gender includes the masculine gender; and
 - e. the singular includes the plural and the plural includes the singular.

B. <u>Instructions</u>

- 1. Unless otherwise specified, the subpoena calls for production of the original Documents and all copies and drafts of same. Documents responsive to this subpoena may be in electronic or paper form. Electronic Documents such as email should be produced in accordance with the attached document entitled SEC Data Delivery Standards. All electronic Documents responsive to the subpoena, including all metadata, should also be produced in their native software format.
- 2. For Documents in paper format, you may send the originals, or, if you prefer, you may send copies of the originals. The Commission cannot reimburse you for the copying costs. If you are sending copies, the staff requests that you scan (rather than photocopy) hard copy Documents and produce them in an electronic format consistent with the SEC Data Delivery Standards. Alternatively, you may send us photocopies of the Documents in paper format. If you choose to send copies, you must secure and retain the originals and store them in a safe place. The staff may later request or require that you produce the originals.
- 3. Whether you scan or photocopy Documents, the copies must be identical to the originals, including even faint marks or print. Also, please note that if copies of a Document differ in any way, they are considered separate Documents and you must send each one. For example, if you have two copies of the same letter, but only one of them has handwritten notes on it, you must send both the clean copy and the one with notes.
- 4. In producing a photocopy of an original Document that contains post-it(s),

notation flag(s), or other removable markings or attachments which may conceal all or a portion of the markings contained in the original Document, photocopies of the original Document both with and without the relevant post-it(s), notation flag(s), or removable markings or attachments should be produced.

- 5. Documents should be produced as they are kept in the ordinary course of business or be organized and labeled to correspond with the categories in this subpoena. In that regard, Documents should be produced in a unitized manner, *i.e.*, delineated with staples or paper clips to identify the Document boundaries.
- 6. Documents should be labeled with sequential numbering (bates-stamped).
- 7. The scope of any given request should not be limited or narrowed based on the fact that it calls for Documents that are responsive to another request.
- 8. You are not required to produce exact duplicates of any Documents that have been previously produced to the Securities and Exchange Commission staff in connection with this matter. If you are not producing Documents based upon a prior production, please identify the responsive Documents that were previously produced.
- 9. For any Documents that qualify as records of regularly conducted activities under Federal Rule of Evidence 902(11), please complete a business records certification (a sample of which is enclosed) and return it with the Document production.
- 10. This subpoena covers all Documents in or subject to your possession, custody or control, including all Documents that are not in your immediate possession but that you have the effective ability to obtain, that are responsive, in whole or in part, to any of the individual requests set forth below. If, for any reason including a claim of attorney-client privilege—you do not produce something called for by the subpoena, you should submit a list of what you are not producing. The list should be produced as an Excel file and describe each item separately, noting:
 - a. its author(s);
 - b. its date;
 - c. its subject matter;
 - d. the name of the Person who has the item now, or the last Person known to have it:
 - e. the names of everyone who ever had the item or a copy of it, and the names of everyone who was told the item's contents;
 - f. the basis upon which you are not producing the responsive Document;
 - g. the specific request in the subpoena to which the Document relates;
 - h. the attorney(s) and the client(s) involved; and

- i. in the case of the work product doctrine, the litigation for which the Document was prepared in anticipation.
- 11. If Documents responsive to this subpoena no longer exist because they have been lost, discarded, or otherwise destroyed, you should identify such Documents and give the date on which they were lost, discarded or destroyed.

D. <u>Documents to be Immediately Preserved and Produced</u>

1. Documents and Communications Concerning the Beacon Chain, the Merge, and the website https://launchpad.ethereum.org, or any content published on the Launchpad's website.

DECLARATION OF [Insert Name] CERTIFYING RECORDS OF REGULARLY CONDUCTED BUSINESS ACTIVITY

I, the undersigned, [insert name], pursuant to 28 U.S.C. § 1746, declare that:

- 1. I am employed by [insert name of company] as [insert position] and by reason of my position am authorized and qualified to make this declaration. [if possible supply additional information as to how person is qualified to make declaration, e.g., I am custodian of records, I am familiar with the company's recordkeeping practices or systems, etc.]
- 2. I further certify that the documents [attached hereto or submitted herewith] and stamped [insert bates range] are true copies of records that were:
 - (a) made at or near the time of the occurrence of the matters set forth therein, by, or from information transmitted by, a person with knowledge of those matters;
 - (b) kept in the course of regularly conducted business activity; and
 - (c) made by the regularly conducted business activity as a regular practice.

I declare under penalty of perjury that the foregoing is true and correct. Executed on [date].

[Name]	

BACKGROUND QUESTIONNAIRE

Please respond to the following questions. Answering these questions will reduce the amount of time spent on background information when you testify. You may use the space provided, attaching additional sheets as necessary, or supply the information in a separate document. If you would like an electronic version of this document, please contact us and we will provide you with one.

То	day's date:
1.	What is your full name?
2.	Have you ever been known by any other name? Yes No If yes, list each such name and the period(s) in which you were known by that name.
3.	Date and place of birth?
4.	Country of citizenship?
5.	Marital Status? Married Divorced Single
6.	List the names, ages, and occupations of your children, if any.
7.	List all residences you occupied at any time during the last three years, including vacation homes, beginning with your current residence. For each residence, state the address, dates of residence, and all telephone numbers (including facsimile numbers) listed at that address.

ELECTRONIC COMMUNICATIONS ACCOUNTS

8. List all telephone numbers and telecommunication services that were in your name or that you regularly used during the last three years. Include all residential business, cellular, credit

card, and VOIP numbers, and services such as Google Voice, Skype, and video conference services. For each telephone number, state the name of the corresponding carrier (e.g., AT&T, Verizon, Vonage, Skype, etc.).

- 9. List the universal resource locator (URL) for all websites or blogs that you established or for which you had the authority to control content at any time during the last three years. For each website, state the name(s) of the domain name registrar (e.g. GoDaddy) through which the URL was obtained, the name(s) of all individuals or entities who provided web site hosting or design services, whether the website contained primarily business or personal information, and the time period in which it was active.
- 10. List all electronic mail addresses and social networking accounts (e.g.Facebook, LinkedIn, Twitter, Instagram, Flickr, Google+) that were in your name or that you regularly used at any time during the last three years. Include all personal, business, or shared electronic mail addresses and social networking accounts. For each electronic mail address and social networking account, state the name(s) of the corresponding internet service provider(s) (e.g. Google, Yahoo, ΛOL, or your employer), whether the address was used primarily for business or personal correspondence, and the time period in which it was active.
- 11. List all usernames for instant messaging and similar electronic communications services (including, but not limited to, Bloomberg, Skype, whatsapp), other than those listed in response to questions above, that were in your name or that you regularly used at any time during the last three years. Include all personal, business, and shared addresses. For each username, state the name(s) of the communication service provider (e.g. Google, AOL, etc.), whether the address was used primarily for business or personal correspondence, the time period in which it was active, and the name of the software application(s) (e.g. GTalk, ICQ, MSN Messenger) you used to access it.

12. List all internet message boards and discussion forums (including, but not limited to, Money Maker Group, PNQI Message Board, Investors Hub Daily) of which you were a member or on which you posted messages at any time during the last three years. For each message board or discussion forum, state the service provider and your member name or identification information.

13. Are you now	, or have you ever been,	, an officer or director of	any publicly-held company?
Yes No	·		

14. Are you now, or have you ever been, a beneficial owner, directly or indirectly, of five per cent or more of any class of equity securities of any publicly held company? Yes _____ No ____.

PRIVATELY-HELD COMPANIES

15. Are you now, or have you ever been, a beneficial owner, directly or indirectly, of any privately-held company (i.e., corporation, partnership, limited liability company or other corporate form)?

16. Are you now, or have you ever been, a manager or a member of any privately-held company (i.e., corporation, partnership, limited liability company or other corporate form)?

SECURITIES ACCOUNTS

17. List all securities or brokerage accounts that you have held in your name, individually or jointly, at any time during the last three years. Include all foreign accounts. For each such account, identify: (i) the brokerage firm; (ii) the location of the branch where your account is or was held; (iii) your broker; (iv) the type of account (i.e., cash, margin or IRA); (v) the account number; and (vi) whether any person has ever held discretionary authority or power of attorney over the account; if so, name such person(s).

18. List all securities or brokerage accounts (including foreign accounts), other than those listed in your answer to the previous question, in which you had any direct or indirect beneficial interest at any time during the last three years. For each such account, provide the information requested by the previous question.

19. List all securities or brokerage accounts (including foreign accounts), other than those listed in your answers to the two previous questions, over which you had any control at any time during the last three years. For each such account, provide the information requested by the first question in this section.

BANK ACCOUNTS

20. List all accounts you have held in your name at any financial institution (i.e., bank, thrift, or credit union) at any time during the last three years. Include all foreign accounts. For each such account, identify: (i) the financial institution; (ii) the address of the branch at which your account is or was held; (iii) the type of account (i.e., checking, savings, money market or IRA); (iv) the account number; and (v) whether any person has ever had discretionary authority or power of attorney over the account; if so, name such person(s).

21.	List all accounts at financial institutions (including foreign accounts), other than those listed
	in your answer to the previous question, in which you had any direct or indirect beneficial
	interest at any time during the last three years. For each such account, provide the
	information requested by the previous question.

- 22. List all accounts at financial institutions (including foreign accounts), other than those listed in your answers to the two previous questions, over which you had any control at any time during the last three years. For each such account, provide the information requested by the first question in this section.
- 23. List any other accounts (including foreign accounts), other than those listed in your answers to the previous questions in this section, that were held in your name, in which you had any direct or indirect beneficial interest, or over which you had any control, that you have used to transfer funds during the last three years, including, but not limited to, PayPal accounts. For each such account, provide the information requested by the first question in this section.

PRIOR PROCEEDINGS

24. Have you ever testified in any proceeding conducted by the staff of the Securities and Exchange Commission, a U.S. or foreign federal or state agency, a U.S. or foreign federal or state court, a stock exchange, the Financial Industry Regulatory Authority ("FINRA") or any other self-regulatory organization ("SRO"), or in any arbitration proceeding related to securities transactions?

25	Have you ever	heen denosed	in connection w	ith any court r	proceeding? Yes	No	
40.	TIME YOU CEL	occii acposca	111 COMMCCHOM **	ini any court p	nocceame: i ca	110	

school.

26.	Have you ever been named as a defendant or respondent in any action or proceeding brought by the SEC, any other U.S. or foreign federal agency, a state securities agency, FINRA, an SRO, or any exchange? Yes No
27.	Have you ever been a defendant in any action (other than those listed in response to the previous question) alleging violations of the federal securities laws? Yes No
28.	Have you ever been a defendant in any criminal proceeding other than one involving a minor traffic offense? Yes No
	DUCATIONAL HISTORY Provide the requested information about each educational institution that you have attended,

30. Other than courses taken in connection with institutions listed in response to question 29, list any securities, accounting or business related courses taken since high school. For each such course, identify the date that the course was completed and the name of the institution or organization that offered the course.

beginning with the most recent and working backward to the date that you completed high

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Background Questionnaire
Page 12

PROFESSIONAL LICENSES/CLUBS
31. Do you hold, or have you ever held, any professional license? Yes No
32. Are you, or have you ever been, a member of any professional or business club or organization? Yes No
33. Are you, or have you been during the last three years, a member of any social clubs, charities or nonprofit organizations? Yes No
EMPLOYMENT HISTORY 34. Are you, or have you ever been, an employee of a broker, dealer, investment adviser, investment company, municipal securities dealer, municipal advisor, transfer agent, or nationally recognized statistical rating organization? Yes No
35. State your employment activities, beginning with the present and working backward to the date that you completed high school and attach a recent copy of your resume or curriculum vitae. For each position you have held (including multiple positions or titles with the same employer), provide the following information:

CONTINUE ON ADDITIONAL SHEETS IF NECESSARY

SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549

Supplemental Information for Persons Requested to Supply Information Voluntarily or Directed to Supply Information Pursuant to a Commission Subpoena

A. False Statements and Documents

Section 1001 of Title 18 of the United States Code provides that fines and terms of imprisonment may be imposed upon:

[W]hoever, in any matter within the jurisdiction of the executive, legislative, or judicial branch of the Government of the United States, knowingly and willfully--

- (1) falsifies, conceals, or covers up by any trick, scheme, or device a material fact;
- (2) makes any materially false, fictitious, or fraudulent statement or representation; or
- (3) makes or uses any false writing or document knowing the same to contain any materially false, fictitious, or fraudulent statement or entry.

Section 1519 of Title 18 of the United States Code provides that fines and terms of imprisonment may be imposed upon:

Whoever knowingly alters, destroys, mutilates, conceals, covers up, falsifies, or makes a false entry in any record, document, or tangible object with the intent to impede, obstruct, or influence the investigation or proper administration of any matter within the jurisdiction of any department or agency of the United States . . ., or in relation to or contemplation of any such matter.

B. Testimony

If your testimony is taken, you should be aware of the following:

- 1. Record. Your testimony will be transcribed by a reporter. If you desire to go off the record, please indicate this to the Commission employee taking your testimony, who will determine whether to grant your request. The reporter will not go off the record at your, or your counsel's, direction.
- 2. Counsel. You have the right to be accompanied, represented and advised by counsel of your choice. Your counsel may advise you before, during and after your testimony; question you briefly at the conclusion of your testimony to clarify any of the answers you give during testimony; and make summary notes during your testimony solely for your use. If you are accompanied by counsel, you may consult privately.

If you are not accompanied by counsel, please advise the Commission employee taking your testimony if, during the testimony, you desire to be accompanied, represented and advised by counsel. Your testimony will be adjourned once to afford you the opportunity to arrange to be so accompanied, represented or advised.

You may be represented by counsel who also represents other persons involved in the Commission's investigation. This multiple representation, however, presents a potential conflict of interest if one client's interests are or may be adverse to another's. If you are represented by counsel who also represents other persons involved in the investigation, the Commission will assume that you and counsel have discussed and resolved all issues concerning possible conflicts of interest. The choice of counsel, and the responsibility for that choice, is yours.

3. Transcript Availability. Rule 6 of the Commission's Rules Relating to Investigations, 17 CFR 203.6, states:

A person who has submitted documentary evidence or testimony in a formal investigative proceeding shall be entitled, upon written request, to procure a copy of his documentary evidence or a transcript of his testimony on payment of the appropriate fees: *Provided, however*, That in a nonpublic formal investigative proceeding the Commission may for good cause deny such request. In any event, any witness, upon proper identification, shall have the right to inspect the official transcript of the witness' own testimony.

If you wish to purchase a copy of the transcript of your testimony, the reporter will provide you with a copy of the appropriate form. Persons requested to supply information voluntarily will be allowed the rights provided by this rule.

4. Perjury. Section 1621 of Title 18 of the United States Code provides that fines and terms of imprisonment may be imposed upon:

Whoever--

- (1) having taken an oath before a competent tribunal, officer, or person, in any case in which a law of the United States authorizes an oath to be administered, that he will testify, declare, depose, or certify truly, or that any written testimony, declaration, deposition, or certificate by him subscribed, is true, willfully and contrary to such oath states or subscribes any material matter which he does not believe to be true; or
- (2) in any declaration, certificate, verification, or statement under penalty of periury as permitted under section 1746 of title 28. United States Code, willfully subscribes as true any material matter which he does not believe to be true.
- 5. Fifth Amendment and Voluntary Testimony. Information you give may be used against you in any federal, state, local or foreign administrative, civil or criminal proceeding brought by the Commission or any other agency.

You may refuse, in accordance with the rights guaranteed to you by the Fifth Amendment to the Constitution of the United States, to give any information that may tend to incriminate you.

If your testimony is not pursuant to subpoena, your appearance to testify is voluntary, you need not answer any question, and you may leave whenever you wish. Your cooperation is, however, appreciated.

Formal Order Availability. If the Commission has issued a formal order of investigation, it will be shown to you during your testimony, at your request. If you desire a copy of the formal order, please make your request in writing.

C. Submissions and Settlements

Rule 5(c) of the Commission's Rules on Informal and Other Procedures, 17 CFR 202.5(c), states:

Persons who become involved in . . . investigations may, on their own initiative, submit a written statement to the Commission setting forth their interests and position in regard to the subject matter of the investigation. Upon request, the staff, in its discretion, may advise such persons of the general nature of the investigation, including the indicated violations as they pertain to them, and the amount of time that may be available for preparing and submitting a statement prior to the presentation of a staff recommendation to the Commission for the commencement of an administrative or injunction proceeding. Submissions by interested persons should be forwarded to the appropriate Division Director or Regional Director with a copy to the staff members conducting the investigation and should be clearly referenced to the specific investigation to which they relate. In the event a recommendation for the commencement of an enforcement proceeding is presented by the staff, any submissions by interested persons will be forwarded to the Commission in conjunction with the staff memorandum.

The staff of the Commission routinely seeks to introduce submissions made pursuant to Rule 5(c) as evidence in Commission enforcement proceedings, when the staff deems appropriate.

Rule 5(f) of the Commission's Rules on Informal and Other Procedures, 17 CFR 202.5(f), states:

In the course of the Commission's investigations, civil lawsuits, and administrative proceedings, the staff, with appropriate authorization, may discuss with persons involved the disposition of such matters by consent, by settlement, or in some other manner. It is the policy of the Commission, however, that the disposition of any such matter may not, expressly or impliedly, extend to any criminal charges that have been, or may be, brought against any such person or any recommendation with respect thereto. Accordingly, any person involved in an enforcement matter before the Commission who consents, or agrees to consent, to any judgment or order does so solely for the purpose of resolving the claims against him in that investigative, civil, or administrative matter and not for the purpose of resolving any criminal charges that have been, or might be, brought against him. This policy reflects the fact that neither the Commission nor its staff has the authority or responsibility for instituting, conducting, settling, or otherwise disposing of criminal proceedings. That authority and responsibility are vested in the Attorney General and representatives of the Department of Justice.

D. Freedom of Information Act

The Freedom of Information Act, 5 U.S.C. 552 (the "FOIA"), generally provides for disclosure of information to the public. Rule 83 of the Commission's Rules on Information and Requests, 17 CFR 200.83, provides a procedure by which a person can make a written request that information submitted to the Commission not be disclosed under the FOIA. That rule states that no determination as to the validity of such a request will be made until a request for disclosure of the information under the FOIA is received. Accordingly, no response to a request that information not be disclosed under the FOIA is necessary or will be given until a request for disclosure under the FOIA is received. If you desire an acknowledgment of receipt of your written request that information not be disclosed under the FOIA, please provide a duplicate request, together with a stamped, self-addressed envelope.

E. Authority for Solicitation of Information

Persons Directed to Supply Information Pursuant to Subpoena. The authority for requiring production of information is set forth in the subpoena. Disclosure of the information to the Commission is mandatory, subject to the valid assertion of any legal right or privilege you might have.

Persons Requested to Supply Information Voluntarily. One or more of the following provisions authorizes the Commission to solicit the information requested: Sections 19 and/or 20 of the Securities Act of 1933; Section 21 of the Securities Exchange Act of 1934; Section 321 of the Trust Indenture Act of 1939; Section 42 of the Investment Company Act of 1940; Section 209 of the Investment Advisers Act of 1940; and 17 CFR 202.5. Disclosure of the requested information to the Commission is voluntary on your part.

F. Effect of Not Supplying Information

Persons Directed to Supply Information Pursuant to Subpoena. If you fail to comply with the subpoena, the Commission may seek a court order requiring you to do so. If such an order is obtained and you thereafter fail to supply the information, you may be subject to civil and/or criminal sanctions for contempt of court. In addition, Section 21(c) of the Securities Exchange Act of 1934, Section 42(c) of the Investment Company Act of 1940, and Section 209(c) of the Investment Advisers Act of 1940 provide that fines and terms of imprisonment may be imposed upon any person who shall, without just cause, fail or refuse to attend and testify or to answer any lawful inquiry, or to produce books, papers, correspondence, memoranda, and other records in compliance with the subpoena.

Persons Requested to Supply Information Voluntarily. There are no direct sanctions and thus no direct effects for failing to provide all or any part of the requested information.

G. Principal Uses of Information

The Commission's principal purpose in soliciting the information is to gather facts in order to determine whether any person has violated, is violating, or is about to violate any provision of the federal securities laws or rules for which the Commission has enforcement authority, such as rules of securities exchanges and the rules of the Municipal Securities Rulemaking Board. Facts developed may, however, constitute violations of other laws or rules. Information provided may be used in Commission and other agency enforcement proceedings. Unless the Commission or its staff explicitly agrees to the contrary in writing, you should not assume that the Commission or its staff acquiesces in, accedes to, or concurs or agrees with, any position, condition, request, reservation of right, understanding, or any other statement that purports, or may be deemed, to be or to reflect a limitation upon the Commission's receipt, use, disposition, transfer, or retention, in accordance with applicable law, of information provided.

H. Routine Uses of Information

The Commission often makes its files available to other governmental agencies, particularly United States Attorneys and state prosecutors. There is a likelihood that information supplied by you will be made available to such agencies where appropriate. Whether or not the Commission makes its files available to other governmental agencies is, in general, a confidential matter between the Commission and such other governmental agencies.

Set forth below is a list of the routine uses which may be made of the information furnished.

- 1. To appropriate agencies, entities, and persons when (a) it is suspected or confirmed that the security or confidentiality of information in the system of records has been compromised; (b) the SEC has determined that, as a result of the suspected or confirmed compromise, there is a risk of harm to economic or property interests, identity theft or fraud, or harm to the security or integrity of this system or other systems or programs (whether maintained by the SEC or another agency or entity) that rely upon the compromised information; and (c) the disclosure made to such agencies, entities, and persons is reasonably necessary to assist in connection with the SEC's efforts to respond to the suspected or confirmed compromise and prevent, minimize, or remedy such harm.
- 2. To other federal, state, local, or foreign law enforcement agencies; securities self-regulatory organizations; and foreign financial regulatory authorities to assist in or coordinate regulatory or law enforcement activities with the SEC.
- 3. To national securities exchanges and national securities associations that are registered with the SEC, the Municipal Securities Rulemaking Board; the Securities Investor Protection Corporation; the Public Company Accounting Oversight Board; the federal banking authorities, including, but not limited to, the Board of Governors of the Federal Reserve System, the Comptroller of the Currency, and the Federal Deposit Insurance Corporation; state securities regulatory agencies or organizations; or regulatory authorities of a foreign government in connection with their regulatory or enforcement responsibilities.
- 4. By SEC personnel for purposes of investigating possible violations of, or to conduct investigations authorized by, the federal securities laws.

- 5. In any proceeding where the federal securities laws are in issue or in which the Commission, or past or present members of its staff, is a party or otherwise involved in an official capacity.
- 6. In connection with proceedings by the Commission pursuant to Rule 102(e) of its Rules of Practice, 17 CFR 201.102(e).
- 7. To a bar association, state accountancy board, or other federal, state, local, or foreign licensing or oversight authority; or professional association or self-regulatory authority to the extent that it performs similar functions (including the Public Company Accounting Oversight Board) for investigations or possible disciplinary action.
- 8. To a federal, state, local, tribal, foreign, or international agency, if necessary to obtain information relevant to the SEC's decision concerning the hiring or retention of an employee; the issuance of a security clearance; the letting of a contract; or the issuance of a license, grant, or other benefit.
- 9. To a federal, state, local, tribal, foreign, or international agency in response to its request for information concerning the hiring or retention of an employee; the issuance of a security clearance; the reporting of an investigation of an employee; the letting of a contract; or the issuance of a license, grant, or other benefit by the requesting agency, to the extent that the information is relevant and necessary to the requesting agency's decision on the matter.
- 10. To produce summary descriptive statistics and analytical studies, as a data source for management information, in support of the function for which the records are collected and maintained or for related personnel management functions or manpower studies; may also be used to respond to general requests for statistical information (without personal identification of individuals) under the Freedom of Information Act.
- 11. To any trustee, receiver, master, special counsel, or other individual or entity that is appointed by a court of competent jurisdiction, or as a result of an agreement between the parties in connection with litigation or administrative proceedings involving allegations of violations of the federal securities laws (as defined in section 3(a)(47) of the Securities Exchange Act of 1934, 15 U.S.C. 78c(a)(47)) or pursuant to the Commission's Rules of Practice, 17 CFR 201,100 – 900 or the Commission's Rules of Fair Fund and Disgorgement Plans, 17 CFR 201.1100-1106, or otherwise, where such trustee, receiver, master, special counsel, or other individual or entity is specifically designated to perform particular functions with respect to, or as a result of, the pending action or proceeding or in connection with the administration and enforcement by the Commission of the federal securities laws or the Commission's Rules of Practice or the Rules of Fair Fund and Disgorgement Plans.
- 12. To any persons during the course of any inquiry, examination, or investigation conducted by the SEC's staff, or in connection with civil litigation, if the staff has reason to believe that the person to whom the record is disclosed may have further information about the matters related therein, and those matters appeared to be relevant at the time to the subject matter of the inquiry.
- 13. To interns, grantees, experts, contractors, and others who have been engaged by the Commission to assist in the performance of a service related to this system of records and who need access to the records for the purpose of assisting the Commission in the efficient administration of its programs, including by performing clerical, stenographic, or data analysis functions, or by reproduction of records by electronic or other means. Recipients of these records shall be required to comply with the requirements of the Privacy Act of 1974, as amended, 5 U.S.C. 552a.
- 14. In reports published by the Commission pursuant to authority granted in the federal securities laws (as such term is defined in section 3(a)(47) of the Securities Exchange Act of 1934, 15 U.S.C. 78c(a)(47)), which authority shall include, but not be limited to, section 21(a) of the Securities Exchange Act of 1934, 15 U.S.C. 78u(a)).
- 15. To members of advisory committees that are created by the Commission or by Congress to render advice and recommendations to the Commission or to Congress, to be used solely in connection with their official designated functions.
- 16. To any person who is or has agreed to be subject to the Commission's Rules of Conduct, 17 CFR 200.735-1 to 200.735-18, and who assists in the investigation by the Commission of possible violations of the federal securities laws (as such term is defined in section 3(a)(47) of the Securities Exchange Act of 1934, 15 U.S.C. 78c(a)(47)), in the preparation or conduct of enforcement actions brought by the Commission for such violations, or otherwise in connection with the Commission's enforcement or regulatory functions under the federal securities laws.
- 17. To a Congressional office from the record of an individual in response to an inquiry from the Congressional office made at the request of that individual.
- 18. To members of Congress, the press, and the public in response to inquiries relating to particular Registrants and their activities, and other matters under the Commission's jurisdiction.

- 19. To prepare and publish information relating to violations of the federal securities laws as provided in 15 U.S.C. 78c(a)(47)), as amended.
- 20. To respond to subpoenas in any litigation or other proceeding.
- 21. To a trustee in bankruptcy.
- 22. To any governmental agency, governmental or private collection agent, consumer reporting agency or commercial reporting agency, governmental or private employer of a debtor, or any other person, for collection, including collection by administrative offset, federal salary offset, tax refund offset, or administrative wage garnishment, of amounts owed as a result of Commission civil or administrative proceedings.

* * * * *

Small Business Owners: The SEC always welcomes comments on how it can better assist small businesses. If you would like more information, or have questions or comments about federal securities regulations as they affect small businesses, please contact the Office of Small Business Policy, in the SEC's Division of Corporation Finance, at 202-551-3460. If you would prefer to comment to someone outside of the SEC, you can contact the Small Business Regulatory Enforcement Ombudsman at http://www.sba.gov/ombudsman or toll free at 888-REG-FAIR. The Ombudsman's office receives comments from small businesses and annually evaluates federal agency enforcement activities for their responsiveness to the special needs of small business.



U.S. Securities and Exchange Commission

Data Delivery Standards

This document describes the technical requirements for paper and electronic document productions to the U.S. Securities and Exchange Commission (SEC). **Any questions or proposed file formats other than those described below must be discussed with the legal and technical staff of the SEC Division of Enforcement prior to submission. **

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General Instructions

Congred Instructions

The current mailing address for all physical productions sent to the SEC is:

ENF-CPU (U.S. Securities & Exchange Commission), 14420 Albemarle Point Place, Suite 102, Chantilly, VA 20151-1750

Electronic files must be produced in their native format, i.e. the format in which they are ordinarily used and maintained during the normal course of business. For example, an MS Excel file must be produced as an MS Excel file rather than an image of a spreadsheet. (Note: An Adobe PDF file is not considered a native file unless the document was initially created as a PDF.)

In the event produced files require the use of proprietary software not commonly found in the workplace, the SEC will explore other format options with the producing party.

The proposed use of file de-duplication methodologies or computer-assisted review or technology-assisted review (TAR) during the processing of documents must be discussed with and approved by the legal and technical staff of the Division of Enforcement (ENF). If your production will be de-duplicated it is vital that you 1) preserve any unique metadata associated with the duplicate files, for example, custodian name and file location and, 2) make that unique metadata part of your production to the SEC.

General requirements for ALL document productions are:

- 1. A cover letter must be included with each production and should include the following information:
 - a. Case number, ease name and requesting SEC staff member name
 - b. A list of each piece of media included in the production with its unique production volume number
 - c. A list of custodians, identifying the Bates range for each custodian
 - d. A list of redacted documents and the redaction reason
 - c. The time zone in which the emails were standardized during conversion
 - f. Whether the production contains native files produced from Mac operating system environments
- Data can be produced on CD, DVD, thumb drive, etc., using the media requiring the least number of deliverables and labeled with the following:
 - a. Case number
 - b. Production date
 - c. Producing party
 - d. Bates range (if applicable)
- All submissions must be organized by custodian unless otherwise instructed.
- 4. All document family groups, i.e. email attachments, embedded files, etc., should be produced together and children files should follow parent files sequentially in the Bates numbering.
- 5. All load-ready collections should include only one data load file and one image pointer file.
- 6. All load-ready text must be produced as separate document-level text files.
- 7. All load-ready collections should account for custodians in the custodian field.
- All load-ready collections must provide the extracted contents of any container files to ensure all relevant files are produced as separate records.
- 9. Audio files should be separated from data files if both are included in the production.
- 10. Only alphanumeric characters and the underscore character are permitted in file names and folder names. Special characters are not permitted.
- 11. All electronic productions submitted on media must be produced using industry standard self-extracting encryption software.
- 12. The SEC uses 7zip to access compressed files. Note that the SEC cannot accept files that use AES-256 Jpeg or pkAES-256-Cert Deflate compression methods, even if the files are created with 7zip. If you have any questions or need additional information, please reach out to the requesting SEC staff member.
- 13. Electronic productions of 30 GB or less are strongly encouraged to be submitted via Secure File Transfer. All Secure File Transfers should be sent to the SEC Centralized Production Unit (ENF-CPU@sec.gov) with a CC to the requesting SEC staff member. If you do not have your own Secure File Transfer application, you may reach out to the requesting SEC staff member for a link to the SEC system in order to upload your production. If using the SEC Secure File Transfer system, you will NOT be able to CC individuals outside the SEC on your upload transmission. Note that the SEC cannot accept productions made using file sharing sites such as Google Drive or Microsoft Office 365.
- 14. Productions containing BSA or SAR material must be encrypted. Secure File Transfer applications may be used to produce BSA or SAR material. BSA or SAR material should be segregated and appropriately marked as BSA or SAR, or should be produced separately from other case related records.
- 15. Passwords for electronic documents, files, compressed archives and encrypted media must be provided separately either via email or in a cover letter apart from the media.
- 16. All electronic productions should be produced free of computer viruses.
- 17. Before producing forensically collected images, parties should reach out to the requesting SEC staff member in order to discuss appropriate handling.
- 18. Before producing unique data sets (large sets of relational data, website reconstruction, chat room data, etc.), parties should reach out to the requesting SEC staff member in order to discuss an appropriate production format.
- Additional technical descriptions can be found in the addendum to this document.

Please note that productions sent to the SEC via United States Postal Service are subject to Mail Irradiation, and as a result electronic productions may be damaged.

Delivery Formats

Imaged Productions

The SEC prefers that all scanned paper and electronic file collections be produced in a structured format including industry standard load files, Bates numbered image files, native files and searchable document-level text files. Bates numbers should not contain spaces. Hyphens (-) and underscores (-) are acceptable.

1. Images

- Black and white images must be 300 DPI Group IV single-page TIFF files
- b. Color images must be produced in JPEG format
- File names cannot contain embedded spaces or special characters (including the comma)
- d. Folder names cannot contain embedded spaces or special characters (including the comma)
- e. All image files must have a unique file name, i.e. Bates number
- f. Images must be endorsed with sequential Bates numbers in the lower right corner of each image
- The number of image files per folder should not exceed 2,000 files g.
- h. Excel spreadsheets should have a placeholder image named by the Bates number of the file
- AUTOCAD/photograph files should be produced as a single page JPEG file

2. Image Cross-Reference File

The image cross-reference file (LOG or .OPT) links the images to the database records. It should be a comma-delimited file consisting of seven fields per line with a line in the cross-reference file for every image in the database with the following format:

ImageID, VolumeLabel, ImageFilePath, DocumentBreak, FolderBreak, BoxBreak, PageCount

3. Data File

The data file (.DAT) contains all of the fielded information that will be loaded into the database.

- The first line of the .DAT file must be a header row identifying the field names
- The .DAT file must use the following *Concordance*® default delimiters:

Comma ¶ ASCII character (020)

Quote b ASCII character (254)

- c. If the .DAT file is produced in Unicode format it must contain the byte order marker
- d. Date fields should be provided in the format: mm/dd/yyyy
- Date and time fields must be two separate fields
- The time zone must be included in all time fields f.
- If the production includes imaged emails and attachments, the attachment fields must be included to preserve the parent/child relationship between an email and its attachments
- An OCRPATH field must be included to provide the file path and name of the extracted text file on the produced storage media. The text file must be named after the FIRSTBATES. Do not include the text in the .DAT file.
- For productions with native files, a LINK field must be included to provide the file path and name of the native file on the produced storage media. The native file must be named after the FIRSTBATES.
- BEGATTACH and ENDATTACH fields must be two separate fields
- A complete list of metadata fields is available in Addendum A to this document

4. Text

Text must be produced as separate document-level text files, not as fields within the .DAT file. The text files must be named per the FIRSTBATES/Image Key and the full path to the text file (OCRPATII) should be included in the .DAT file. Text files may be in either ANSI or Unicode format, however, ALL text files must be in the same format within the same production. Note that productions containing text with foreign characters must produce text files in Unicode format to preserve the foreign characters. Text files must be in a separate folder, and the number of text files per folder should not exceed 2,000 files. There should be no special characters (including commas) in the folder names. For redacted documents, provide the full text for the redacted version.

Linked Native Files

Copies of original email and native file documents/attachments must be included for all electronic productions.

- a. Native file documents must be named per the FIRSTBATES number
- b. The full path of the native file must be provided in the .DAT file for the LINK field
- The number of native files per folder should not exceed 2,000 files

II. Native File Production without Load Files

With prior approval, native files may be produced without load files. Native file productions should not be Bates numbered. Native files must be produced as they are maintained in the normal course of business and organized by custodian-named file folders. Native email files (.PST or .MBOX) must be separated by custodian.

III. Adobe PDF File Production

With prior approval, Adobe PDF files may be produced in native file format.

- 1. All PDFs must be unitized at the document level, i.e. each PDF must represent a discrete document.
- 2. PDF files should be produced in separate folders named by the custodian. The folders should not contain any special characters (including commas).
- 3. All PDF files must contain embedded text that includes all discernible words within the document, not selected text or image only. This requires all layers of the PDF to be flattened first.
- 4. If PDF files are Bates endorsed, the PDF files must be named by the Bates range.

IV. Audio Files

Audio files from telephone recording systems must be produced in a format that is playable using Microsoft Windows Media PlayerTM. Additionally, the call information (metadata) related to each audio recording MUST be provided. The metadata file must be produced in a delimited text format. Field names must be included in the first row of the text file. The metadata must include, at a minimum, the following fields:

1) Caller Name: Caller's name or account/identification number

2) Originating Number: Caller's phone number3) Called Party Name: Called party's name

4) Terminating Number: Called party's phone number

5) Date: Date of call
6) Time: Time of call

7) Filename: Filename of audio file

V. Video Files

Video files must be produced in a format that is playable using Microsoft Windows Media PlayerTM.

VI. Electronic Trade and Bank Records

When producing electronic trade records, bank records, or financial statements, provide the files in one of the following formats:

- 1. MS Excel spreadsheet with header information detailing the field structure. If any special codes exist in the dataset, a separate document must be provided that details all such codes. If details of the field structure do not fit in the header, a separate document must be provided that includes such details.
- 2. Delimited text file with header information detailing the field structure. The preferred delimiter is a vertical bar "|". If any special codes exist in the dataset, a separate document must be provided that details all such codes. If details of the field structure do not fit in the header, a separate document must be provided that includes such details.

VII. Electronic Phone Records

When producing an MS Excel spreadsheet for electronic phone records, provide the files in the following format:

- 1. MS Excel spreadsheet with header information detailing the field structure. If any special codes exist in the dataset, a separate document must be provided that details all such codes. If details of the field structure do not fit in the header, a separate document must be provided that includes such details. Data must be formatted in its native format (i.e. dates in a date format, numbers in an appropriate numerical format, and numbers with leading zeroes as text).
 - a. The metadata that must be included is outlined in **Addendum B** of this document. Each field of data must be loaded into a separate column. For example, Date and Start_Time must be produced in separate columns and not combined into a single column containing both pieces of information. Any fields of data that are provided in addition to those listed in **Addendum B** must also be loaded into separate columns.

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Data Delivery Standards

VIII. Audit Workpapers

The SEC prefers for workpapers to be produced in two formats: (1) With Bates numbers in accordance with the SEC Data Delivery Standards; and (2) in native format via laptop computer, web-based viewing platform, or otherwise, allowing for viewing in the same format and organization as the firm's audit team. Prior to production of workpapers via laptop computer or web-based viewing platform, audit firms should contact the requesting SEC staff member for additional information and written agreements addressing use of software, access, and viewing protocols.

IX. Mobile Device Data

Before producing any mobile device data (including but not limited to text messages and application data) parties should reach out to the requesting SEC staff member in order to discuss the appropriate production format. Productions containing chat data from applications must be identified at the time of production and the following information must be provided to the requesting SEC staff member and the SEC Centralized Production Unit: chat application, chat data format, and how the length of a chat is determined (i.e. set duration of time, number of minutes without messages, etc.)

ADDENDUM A

The metadata of electronic document collections should be extracted and provided in a .DAT file using the field definition and formatting described below:

Field Name	Sample Data	Description
FIRSTBATES	EDC0000001	First Bates number of native file document/email
LASTBATES	EDC0000001	Last Bates number of native file document/email
		**The LASTBATES field should be populated
		for single page documents/emails.
ATTACHRANGE	EDC0000001 - EDC0000015	Bates number of the first page of the parent
		document to the Bates number of the last page of the
		last attachment "child" document
BEGATTACH	EDC0000001	First Bates number of attachment range
ENDATTACH	EDC0000015	Last Bates number of attachment range
PARENT_BATES	EDC0000001	First Bates number of parent document/Email **This PARENT_BATES field should be populated in each record representing an attachment "child" document
CHILD_BATES	EDC0000002; EDC0000014	First Bates number of "child" attachment(s); can be
		more than one Bates number listed depending on the
		number of attachments
		**The CHILD_BATES field should be populated in
GUGDO DI LA		each record representing a "parent" document
CUSTODIAN	Smith, John	Email: Mailbox where the email resided
		Native: Name of the individual or department from whose files the document originated
EDOM	I-1 0	Email: Sender
FROM	John Smith	
		Native: Author(s) of document **semi-colon should be used to separate multiple
		entries
TO	Coffman, Janice; LeeW	Recipient(s)
	[mailto:LeeW@MSN.com]	**semi-colon should be used to separate multiple
	(,	entries
CC	Frank Thompson [mailto:	Carbon copy recipient(s)
	frank_Thompson@cdt.com]	**semi-colon should be used to separate multiple
		entries
BCC	John Cain	Blind carbon copy recipient(s)
		**semi-colon should be used to separate multiple
		entries
SUBJECT	Board Meeting Minutes	Email: Subject line of the email
EU E MANG	D 134 .: 34: 4	Native: Title of document (if available)
FILE_NAME	BoardMeetingMinutes.docx	Native: Name of the original native file, including
DATE CUNT	10/12/2010	extension
DATE_SENT	10/12/2010	Email: Date the email was sent
TIME SENT/TIME	07:05 PM GMT	Native: (empty) Email: Time the email was sent/ Time zone in which
ZONE ZONE	07.051.WLGIVII	the emails were standardized during conversion.
		Native: (empty)
		**This data must be a separate field and cannot be
		combined with the DATE_SENT field
TIME ZONE	GMT	The time zone in which the emails were standardized
-		during conversion.
		Email: Time zone
		Native: (empty)

LINK	D:\001\EDC0000001.msg	Hyperlink to the email or native file document **The linked file must be named per the FIRSTBATES number
MIME_TYPE	application/msword	The content type of an email or native file document as identified/extracted from the header
FILE_EXTEN	MSG	The file type extension representing the email or native file document; will vary depending on the format
AUTHOR	John Smith	Email: (empty) Native: Author of the document
LAST_AUTHOR	Jane Doe	Email: (empty) Native: Last Author of the document
DATE_CREATED	10/10/2010	Email: (empty) Native: Date the document was created
TIME_CREATED/T IME_ZONE	10:25 AM GMT	Email: (empty) Native: Time the document was created including time zone **This data must be a separate field and cannot be combined with the DATE_CREATED field
DATE_MOD	10/12/2010	Email: (empty) Native: Date the document was last modified
TIME_MOD/TIME_ ZONE	07:00 PM GMT	Email: (empty) Native: Time the document was last modified including the time zone **This data must be a separate field and cannot be combined with the DATE_MOD field
DATE_ACCESSD	10/12/2010	Email: (empty) Native: Date the document was last accessed
TIME_ACCESSD/T IME_ZONE	07:00 PM GMT	Email: (empty) Native: Time the document was last accessed including the time zone **This data must be a separate field and cannot be combined with the DATE_ACCESSD field
PRINTED_DATE	10/12/2010	Email: (empty) Native: Date the document was last printed
FILE_SIZE	5,952	Size of native file document/email in KB
PGCOUNT	1	Number of pages in native file document/email
PATH	J:\Shared\SmithJ\October Agenda.doc	Email: (empty) Native: Path where native file document was stored including original file name.
INTFILEPATH	Personal Folders\Deleted Items\Board Meeting Minutes.msg	Email: original location of email including original file name. Native: (empty)
INTMSGID	<000805c2c71bS75977050Scb 8306d1@MSN>	Email: Unique Message ID Native: (empty)

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HEADER	Return-Path: <example_from@dc.edu> X-SpamCatcher-Score:1[X] Received:from[136.167.40.119] (HELO dc.edu) by fe3.dc.edu (CommuniGate Pro SMTP4.1.8) with ESMTP-TLS id 61258719 for example_to@mail.dc.edu; Mon, 23 Aug 2004 11:40:10 - 0400 Message-ID: <<4129F3CA.2020509@dc.edu> Date: Mon, 23 Aug 2005 11:40:36 -400 From: Taylor Evans <example_from@dc.edu> User-Agent:Mozilla/5.0 (Windows;U; Windows NT 5.1: en-US;rv:1.0.1) Gecko/20020823 Netscape/7.0 X-Accept-Language:en-us,en MIME-Version:1.0 To: Jon Smith <example_to@mail.dc.edu> Subject:Business Development Meeting Content-Type: text/plain;charset=us-ascii; format=flowed Content-Transfer-Encoding:7bit</example_to@mail.dc.edu></example_from@dc.edu></example_from@dc.edu>	
SHA256	AD6128C5CA40164AF71A1E FC800E12D2F195CE07BB5F8 C813B0888A2DDE6A06F	SHA-256 hash value of the document.
OCRPATH	TEXT/001/EDC0000001.txt	Path to extracted text of the native file

Sample Image Cross-Reference File:

IMG000001,,E:\001\IMG0000001.TIF,Y,,,
IMG0000002,,E:\001\IMG0000002.TIF,,,,
IMG0000003,,E:\001\IMG0000003.TIF,,,,
IMG0000004,,E:\001\IMG0000005.TIF,Y,,,
IMG0000005,,E:\001\IMG0000005.TIF,Y,,,
IMG0000006,,E:\001\IMG0000006.TIF,,,,,

ADDENDUM B

For Electronic Phone Records, include the following fields in separate columns:

For Calls:

- 1) Account Number
- 2) Connection Date Date the call was received or made
- 3) Connection Time Time call was received or made
- 4) Seizure Time Time it took for the call to be placed in seconds
- 5) Originating Number Phone that placed the call
- 6) Terminating Number Phone that received the call
- 7) Elapsed Time The length of time the call lasted, preferably in seconds
- 8) End Time The time the call ended
- 9) Number Dialed Actual number dialed
- 10) IMEI Originating Unique id to phone used to make call
- 11) IMEI Terminating-Unique id to phone used to receive call
- 12) IMSI Originating Unique id to phone used to make call
- 13) IMSI Terminating- Unique id to phone used to receive call
- 14) Call Codes Identify call direction or other routing information
- 15) Time Zone Time Zone in which the call was received or placed, if applicable

For Text messages:

- 1) Account Number
- 2) Connection Date Date the text was received or made
- 3) Connection Time Time text was received or made
- 4) Originating Number Who placed the text
- 5) Terminating Number Who received the text
- 6) IMEI Originating Unique id to phone used to make text
- 7) IMEI Terminating—Unique id to phone used to receive text
- 8) IMSI Originating Unique id to phone used to make text
- 9) IMSI Terminating- Unique id to phone used to receive text
- 10) Text Code Identify text direction, or other text routing information
- 11) Text Type Code Type of text message (sent SMS, MMS, or other)
- 12) Time Zone Time Zone in which the call was received or placed, if applicable

For Mobile Data Usage:

- 1) Account Number
- Connection Date Date the data was received or made
- 3) Connection Time Time data was received or made
- 4) Originating number Number that used data
- 5) IMEI Originating Unique id of phone that used data
- 6) IMSI Originating Unique id of phone that used data
- 7) Data or Data codes Identify data direction, or other data routing information
- 8) Time Zone Time Zone in which the call was received or placed, if applicable



UNITED STATES SECURITIES AND EXCHANGE COMMISSION

100 PEARL STREET, SUITE 20-100 NEW YORK, NY 10004-2616

DIVISION OF ENFORCEMENT

May 2, 2024

VIA EMAIL (hmarlier@mofo.com)

(b)(6); (b)(7)(C)

c/o Haimavathi V. Marlier Morrison & Foerster LLP 250 W 55th Steet New York, NY 10019

Re: Ethereum 2.0, C-08950

Dear Ms. Marlier:

The enclosed subpoena has been issued pursuant to a formal order entered by the United States Securities and Exchange Commission. Pursuant to Rule 8 of the United States Securities and Exchange Commission's Rules Relating to Investigations, 17 C.F.R. § 203.8, I have enclosed a subpoena for documents issued to your client, (b)(6): (b)(7)(C) in connection with the above-referenced investigation.

The enclosed subpoena requires your client to produce documents to the SEC by **May 16**, **2024**. Please deliver the materials by May 16, 2024 to:

ENF-CPU
U.S. Securities and Exchange Commission
14420 Albemarle Point Place, Suite 102
Chantilly, VA 20151-1750

For smaller electronic productions under 10MB in size, the materials may be emailed to the following email address: ENF-CPU@sec.gov.

Please also provide a duplicate copy of any document production cover letters to me at (b)(6):
(c)(7)(C) (c)(7)(C)

Please carefully read the subpoena attachment, which contains, among other things, important instructions related to the manner of producing documents. In particular, if your client prefers to send us copies of original documents, the staff requests that you scan and produce

hard copy documents, as well as electronic documents, in an electronic format consistent with the SEC Data Delivery Standards attached hereto. All electronic documents responsive to the subpoena, including all metadata, should also be produced in their native software format. If you have any questions concerning the production of documents in an electronic format, please contact me as soon as possible and in any event before producing documents. For security reasons, we strongly encourage the encryption of sensitive documents before production.

In your cover letter(s) accompanying the production of responsive documents, please enclose a list briefly describing each item you send. The list should identify the paragraph(s) in the subpoena attachment to which each item responds. Please also state in the cover letter(s) whether you believe your client has met the obligations of the subpoena by searching carefully and thoroughly for everything called for by the subpoena, and sending it all to us.

A copy of the subpoena should be included with the documents that are produced. Correspondence should reference case number, case name and requesting SEC staff member.

Passwords for documents, files, compressed archives, and encrypted media should be provided separately either via email addressed to ENF-CPU@scc.gov, or in a separate cover letter mailed separately from the data. Password correspondence should reference case number, case name and requesting SEC staff member.

Please also provide a narrative description describing what was done to identify and collect documents responsive to the subpoena. At a minimum, the narrative should describe:

- who searched for documents:
- who reviewed documents found to determine whether they were responsive;
- which custodians were searched;
- what sources were searched (e.g., computer files, CDs, DVDs, thumb drives, flash drives, online storage media, hard copy files, diaries, datebooks, planners, filing cabinets, storage facilities, home offices, work offices, voice mails, home email, webmail, work email, backup tapes or other media);
- what search terms, if any, were employed to identify responsive documents;
- what firms and/or persons, if any, assisted in analyzing the data collected;
- what third parties, if any, were contacted to obtain responsive documents (e.g., phone companies for phone records, brokerage firms for brokerage records); and
- where the original electronic and hardcopy documents are maintained and by whom.

In addition, for any documents that qualify as records of regularly conducted activities under Federal Rule of Evidence 902(11), please have your client complete a business records certification (a sample of which is enclosed) and return it with the document production. Execution of this certification may allow the Commission to introduce the documents provided by your client in any subsequent judicial proceeding, without requiring your client's testimony.

Please note that, in any matter in which enforcement action is ultimately deemed to be warranted, the Division of Enforcement will not recommend any settlement to the Commission Enclosed is a copy of the Commission's Form 1662, entitled "Supplemental Information for Persons Requested to Supply Information Voluntarily or Directed to Supply Information Pursuant to a Commission Subpoena." This form explains how we may use the information that your client provides to the Commission and has other important information for your client. Please provide a copy of this form to your client.

This investigation is a non-public, fact-finding inquiry. We are trying to determine whether there have been any violations of the federal securities laws. The investigation does not mean that we have concluded that anyone has violated the law. Also, the investigation does not mean that we have a negative opinion of any person, entity, or security.

If you have any questions or would like to discuss this matter, you may contact me at (b)(6); (b)(7)(C)

Sincerely,
(b)(6); (b)(7)(C)
Division of Enforcement
(b)(6); (b)(7)(C)
(b)(6); ; sec.gov

Enclosures: Subpoena and Attachment

SEC Data Delivery Standards

SEC Form 1662

Business Records Certification Background Questionnaire



SUBPOENA

UNITED STATES OF AMERICA SECURITIES AND EXCHANGE COMMISSION

Ethereum 2.0, C-08950

To:

(b)(6); (b)(7)(C)

c/o Haimavathi V. Marlier Morrison & Foerster LLP 250 W 55th Street New York, NY 10019

YOU MUST PRODUCE everything specified in the Attachment to this subpoena to officers of the Securities and Exchange Commission, at the place, date and time specified below:

ENF-CPU, U.S. Securities and Exchange Commission, 14420 Albemarle Point Place, Suite 102 Chantilly, VA 20151-1750, no later than **May 16, 2024**.

YOU MUST TESTIFY before officers of the Securities and Exchange Commission, at the place, date and time specified below:

FEDERAL LAW REOUIRES YOU TO COMPLY WITH THIS SUBPOENA.

If you do not comply with this subpoena, the SEC may bring an action in Federal Court to enforce this subpoena. Failure to comply with a court order enforcing this subpoena may result in the court imposing a fine, imprisonment, or both.

By: (b)(6); (b)(7)(C)

Date: May 2, 2024

U.S. Securities and Exchange Commission New York Regional Office 100 Pearl Street, Suite 20-100 New York, NY 10004-2616

I am an officer of the U.S. Securities and Exchange Commission authorized to issue subpoenas in this matter. The Securities and Exchange Commission has issued a formal order authorizing this investigation under Section 20(a) of the Securities Act of 1933.

NOTICE TO WITNESS: If you claim a witness fee or mileage, submit this subpoena with the claim voucher.

SUBPOENA ATTACHMENT FOR (D)(6): (b)(7)(C)

Ethereum 2.0, C-08950

May 2, 2024

Definitions

As used in this subpoena, the words and phrases listed below shall have the following meanings:

- 1. "Relevant Period" means July 1, 2018 to the present.
- 2. "The Merge" or "Ethereum 2.0" means the transition by the Ethereum blockchain of its consensus mechanism from proof-of-work to proof-of-stake.
- 3. "Beacon Chain" means the original proof-of-stake blockchain that was launched in 2020 that ran alongside the original proof-of-work Ethereum blockchain.
- 4. "Document" shall include, but is not limited to, any written, printed, or typed matter including, but not limited to all drafts and copies bearing notations or marks not found in the original, letters and correspondence, interoffice communications, slips, tickets, records, worksheets, financial records, accounting documents, bookkeeping documents, memoranda, reports, manuals, telephone logs, facsimiles, messages of any type, telephone messages, text messages, voice mails, tape recordings, notices, instructions, minutes, summaries, notes of meetings, file folder markings, and any other organizational indicia, purchase orders, information recorded by photographic process, including microfilm and microfiche, computer printouts, spreadsheets, and other electronically stored information, including but not limited to writings, drawings, graphs, charts, photographs, sound recordings, images, and other data or data compilations that are stored in any medium from which information can be retrieved, obtained, manipulated, or translated.
- 5. "Communication" means any correspondence, contact, discussion, e-mail, instant message, or any other kind of oral or written exchange or transmission of information (in the form of facts, ideas, inquiries, or otherwise), including but not limited to those made on Social Media Services, and any response thereto between two or more Persons or entities, including, without limitation, all telephone conversations, face-to-face meetings or conversations, internal or external discussions, or exchanges of a Document or Documents.
- 6. "Concerning" means directly or indirectly, in whole or in part, describing, constituting, evidencing, recording, evaluating, substantiating, concerning, referring to, alluding to, in connection with, commenting on, relating to, regarding, discussing, showing, describing, analyzing or reflecting.
- 7. "Social Media Service" means any social media or message service, including, but not limited to, Twitter, Discord, Medium, Telegram, Facebook, Instagram, Slack, WeChat, Reddit, or YouTube.

- 8. The term "you" and "your" means the Person to whom or entity to which this subpoena was issued.
- 9. To the extent necessary to bring within the scope of this this subpoena any information or Documents that might otherwise be construed to be outside its scope:
 - a. the word "or" means "and/or";
 - b. the word "and" means "and/or";
 - c. the functional words "each," "every" "any" and "all" shall each be deemed to include each of the other functional words;
 - d. the masculine gender includes the female gender and the female gender includes the masculine gender; and
 - e. the singular includes the plural and the plural includes the singular.

Instructions

- 1. Unless otherwise specified, this subpoena calls for production of the original Documents and all copies and drafts of same. Documents responsive to this subpoena may be in electronic or paper form. Electronic Documents such as email should be produced in accordance with the attached Document entitled SEC Data Delivery Standards. All responsive electronic Documents, including all metadata, should also be produced in their native software format.
- 2. For Documents in paper format, you may send the originals, or, if you prefer, you may send copies of the originals. The Commission cannot reimburse you for the copying costs. If you are sending copies, the staff requests that you scan (rather than photocopy) hard copy Documents and produce them in an electronic format consistent with the SEC Data Delivery Standards. Alternatively, you may send us photocopies of the Documents in paper format. If you choose to send copies, you <u>must</u> secure and retain the originals and store them in a safe place. The staff may later request or require that you produce the originals.
- 3. Whether you scan or photocopy Documents, the copies must be identical to the originals, including even faint marks or print. Also, please note that if copies of a Document differ in any way, they are considered separate Documents and you must send each one. For example, if you have two copies of the same letter, but only one of them has handwritten notes on it, you must send both the clean copy and the one with notes.
- 4. In producing a photocopy of an original Document that contains post-it(s), notation flag(s), or other removable markings or attachments which may conceal all or a portion of the markings contained in the original Document, photocopies of the original Document both with and without the relevant post-it(s), notation flag(s), or removable markings or attachments should be produced.
- 5. Documents should be produced as they are kept in the ordinary course of business or be

- 6. Documents should be labeled with sequential numbering (bates-stamped).
- 7. You must produce all Documents created during, or Concerning, the time periods identified in this subpoena, unless otherwise specified.
- 8. The scope of any given request should not be limited or narrowed based on the fact that it calls for Documents that are responsive to another request.
- 9. You are not required to produce exact duplicates of any Documents that have been previously produced to the Securities and Exchange Commission staff in connection with this matter. If you are not producing Documents based upon a prior production, please identify the responsive Documents that were previously produced.
- 10. For any Documents that qualify as records of regularly conducted activities under Federal Rule of Evidence 902(11), please complete a business records certification (a sample of which is enclosed) and return it with the Document production.
- 11. This subpoena covers all Documents in or subject to your possession, custody or control, including all Documents that are not in your immediate possession but that you have the effective ability to obtain, that are responsive, in whole or in part, to any of the individual requests set forth below. If, for any reason—including a claim of attorney-client privilege—you do not produce something called for by the request, you should submit a list of what you are not producing. The list should describe each item separately, noting:
 - a. its author(s);
 - b. its date;
 - c. its subject matter;
 - d. the name of the Person who has the item now, or the last Person known to have it;
 - e. the names of everyone who ever had the item or a copy of it, and the names of everyone who was told the item's contents;
 - f. the basis upon which you are not producing the responsive Document;
 - g. the specific request in the subpoena to which the Document relates;
 - h. the attorney(s) and the client(s) involved; and
 - i. in the case of the work product doctrine, the litigation for which the Document was prepared in anticipation.
- 12. If Documents responsive to this subpoena no longer exist because they have been lost, discarded, or otherwise destroyed, you should identify such Documents and give the date on which they were lost, discarded or destroyed.

Documents to be Produced

1. Documents and Communications Concerning the Beacon Chain, the Merge, EIP-4895, and the website https://launchpad.ethereum.org, or any content published on the Launchpad's website.

DECLARATION OF [Insert Name] CERTIFYING RECORDS OF REGULARLY CONDUCTED BUSINESS ACTIVITY

I, the undersigned, [insert name], pursuant to 28 U.S.C. § 1746, declare that:

- 1. I am employed by [insert entity] as [insert position] and by reason of my position am authorized and qualified to make this declaration. [if possible supply additional information as to how person is qualified to make declaration, e.g., I am custodian of records, I am familiar with the company's recordkeeping practices or systems, etc.]
- 2. I further certify that the documents [attached hereto or submitted herewith] and stamped [insert bates range] are true copies of records that were:
 - (a) made at or near the time of the occurrence of the matters set forth therein, by, or from information transmitted by, a person with knowledge of those matters;
 - (b) kept in the course of regularly conducted business activity; and
 - (c) made by the regularly conducted business activity as a regular practice.

I declare under penalty of perjury that the foregoing is true and correct. Executed on [date].

[Name]	



U.S. Securities and Exchange Commission

Data Delivery Standards

This document describes the technical requirements for paper and electronic document productions to the U.S. Securities and Exchange Commission (SEC). **Any questions or proposed file formats other than those described below must be discussed with the legal and technical staff of the SEC Division of Enforcement prior to submission.**

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General Instructions

The current mailing address for all physical productions sent to the SEC is:

ENF-CPU (U.S. Securities & Exchange Commission), 14420 Albemarle Point Place, Suite 102, Chantilly, VA 20151-1750

Electronic files must be produced in their native format, i.e. the format in which they are ordinarily used and maintained during the normal course of business. For example, an MS Excel file must be produced as an MS Excel file rather than an image of a spreadsheet. (Note: An Adobe PDF file is not considered a native file unless the document was initially created as a PDF.)

In the event produced files require the use of proprietary software not commonly found in the workplace, the SEC will explore other format options with the producing party.

The proposed use of file de-duplication methodologies or *computer-assisted review* or *technology-assisted review* (TAR) during the processing of documents must be discussed with and approved by the legal and technical staff of the Division of Enforcement (ENF). If your production will be de-duplicated it is vital that you 1) preserve any unique metadata associated with

the duplicate files, for example, custodian name and file location and, 2) make that unique metadata part of your production to the SEC.

General requirements for ALL document productions are:

- 1. A cover letter must be included with each production and should include the following information:
 - a. Case number, case name and requesting SEC staff member name
 - b. A list of each piece of media included in the production with its unique production volume number
 - c. A list of custodians, identifying the Bates range for each custodian
 - d. A list of redacted documents and the redaction reason
 - e. The time zone in which the emails were standardized during conversion
 - f. Whether the production contains native files produced from Mac operating system environments
- 2. Data can be produced on CD, DVD, thumb drive, etc., using the media requiring the least number of deliverables and labeled with the following:
 - a. Case number
 - b. Production date
 - e. Producing party
 - d. Bates range (if applicable)
- All submissions must be organized by custodian unless otherwise instructed.
- 4. All document family groups, i.e. email attachments, embedded files, etc., should be produced together and children files should follow parent files sequentially in the Bates numbering.
- 5. All load-ready collections should include only one data load file and one image pointer file.
- 6. All load-ready text must be produced as separate document-level text files.
- 7. All load-ready collections should account for custodians in the custodian field.
- All load-ready collections must provide the extracted contents of any container files to ensure all relevant files are produced as separate records.
- 9. Audio files should be separated from data files if both are included in the production.
- 10. Only alphanumeric characters and the underscore character are permitted in file names and folder names. Special characters are not permitted.
- 11. All electronic productions submitted on media must be produced using industry standard self-extracting encryption software.
- 12. The SEC uses 7zip to access compressed files. Note that the SEC **cannot** accept files that use AES-256 Jpeg or pkAES-256-Cert Deflate compression methods, even if the files are created with 7zip. If you have any questions or need additional information, please reach out to the requesting SEC staff member.
- 13. Electronic productions of 30 GB or less are strongly encouraged to be submitted via Secure File Transfer. All Secure File Transfers should be sent to the SEC Centralized Production Unit (ENF-CPU@sec.gov) with a CC to the requesting SEC staff member. If you do not have your own Secure File Transfer application, you may reach out to the requesting SEC staff member for a link to the SEC system in order to upload your production. If using the SEC Secure File Transfer system, you will NOT be able to CC individuals outside the SEC on your upload transmission. Note that the SEC cannot accept productions made using file sharing sites such as Google Drive or Microsoft Office 365.
- 14. Productions containing BSA or SAR material must be encrypted. Secure File Transfer applications may be used to produce BSA or SAR material. BSA or SAR material should be segregated and appropriately marked as BSA or SAR, or should be produced separately from other case related records.
- 15. Passwords for electronic documents, files, compressed archives and encrypted media must be provided separately either via email or in a cover letter apart from the media.
- 16. All electronic productions should be produced free of computer viruses.
- 17. Before producing forensically collected images, parties should reach out to the requesting SEC staff member in order to discuss appropriate handling.
- 18. Before producing unique data sets (large sets of relational data, website reconstruction, chat room data, etc.), parties should reach out to the requesting SEC staff member in order to discuss an appropriate production format.
- 19. Additional technical descriptions can be found in the addendum to this document.

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Please note that productions sent to the SEC via United States Postal Service are subject to Mail Irradiation, and as a result electronic productions may be damaged.

Delivery Formats

Imaged Productions

The SEC prefers that all scanned paper and electronic file collections be produced in a structured format including industry standard load files, Bates numbered image files, native files and searchable document-level text files. Bates numbers should not contain spaces. Hyphens (-) and underscores () are acceptable.

1. Images

- a. Black and white images must be 300 DPI Group IV single-page TIFF files
- b. Color images must be produced in JPEG format
- c. File names cannot contain embedded spaces or special characters (including the comma)
- d. Folder names cannot contain embedded spaces or special characters (including the comma)
- e. All image files must have a unique file name, i.e. Bates number
- f. Images must be endorsed with sequential Bates numbers in the lower right corner of each image
- The number of image files per folder should not exceed 2,000 files g.
- h. Excel spreadsheets should have a placeholder image named by the Bates number of the file
- AUTOCAD/photograph files should be produced as a single page JPEG file

2. Image Cross-Reference File

The image cross-reference file (LOG or .OPT) links the images to the database records. It should be a comma-delimited file consisting of seven fields per line with a line in the cross-reference file for every image in the database with the following format:

ImageID, VolumeLabel, ImageFilePath, DocumentBreak, FolderBreak, BoxBreak, PageCount

3. Data File

The data file (.DAT) contains all of the fielded information that will be loaded into the database.

- The first line of the .DAT file must be a header row identifying the field names
- The .DAT file must use the following *Concordance*® default delimiters:

Comma ¶ ASCII character (020)

Quote b ASCII character (254)

- c. If the .DAT file is produced in Unicode format it must contain the byte order marker
- d. Date fields should be provided in the format: mm/dd/yyyy
- Date and time fields must be two separate fields
- f. The time zone must be included in all time fields
- If the production includes imaged emails and attachments, the attachment fields must be included to preserve the parent/child relationship between an email and its attachments
- An OCRPATH field must be included to provide the file path and name of the extracted text file on the produced storage media. The text file must be named after the FIRSTBATES. Do not include the text in the .DAT file.
- í. For productions with native files, a LINK field must be included to provide the file path and name of the native file on the produced storage media. The native file must be named after the FIRSTBATES.
- BEGATTACH and ENDATTACH fields must be two separate fields
- k. A complete list of metadata fields is available in Addendum A to this document

Text

Text must be produced as separate document-level text files, not as fields within the .DAT file. The text files must be named per the FIRSTBATES/Image Key and the full path to the text file (OCRPATH) should be included in the .DAT file. Text files may be in either ANSI or Unicode format, however, ALL text files must be in the same format within the same production. Note that productions containing text with foreign characters must produce text files in Unicode format to preserve the foreign characters. Text files must be in a separate folder, and the number of text files per folder should not exceed 2,000 files. There should be no special characters (including commas) in the folder names. For redacted documents, provide the full text for the redacted version.

Linked Native Files

Copies of original email and native file documents/attachments must be included for all electronic productions.

- a. Native file documents must be named per the FIRSTBATES number
- The full path of the native file must be provided in the .DAT file for the LINK field
- The number of native files per folder should not exceed 2,000 files

II. Native File Production without Load Files

With prior approval, native files may be produced without load files. Native file productions should not be Bates numbered. Native files must be produced as they are maintained in the normal course of business and organized by custodian-named file folders. Native email files (.PST or .MBOX) must be separated by custodian.

III. Adobe PDF File Production

With prior approval, Adobe PDF files may be produced in native file format.

- 1. All PDFs must be unitized at the document level, i.e. each PDF must represent a discrete document.
- 2. PDF files should be produced in separate folders named by the custodian. The folders should not contain any special characters (including commas).
- 3. All PDF files must contain embedded text that includes all discernible words within the document, not selected text or image only. This requires all layers of the PDF to be flattened first.
- 4. If PDF files are Bates endorsed, the PDF files must be named by the Bates range.

IV. Audio Files

Audio files from telephone recording systems must be produced in a format that is playable using Microsoft Windows Media PlayerTM. Additionally, the call information (metadata) related to each audio recording MUST be provided. The metadata file must be produced in a delimited text format. Field names must be included in the first row of the text file. The metadata must include, at a minimum, the following fields:

1) Caller Name: Caller's name or account/identification number

2) Originating Number: Caller's phone number3) Called Party Name: Called party's name

4) Terminating Number: Called party's phone number

5) Date: Date of call6) Time: Time of call

7) Filename: Filename of audio file

V. Video Files

Video files must be produced in a format that is playable using Microsoft Windows Media PlayerTM.

VI. Electronic Trade and Bank Records

When producing electronic trade records, bank records, or financial statements, provide the files in one of the following formats:

- 1. MS Excel spreadsheet with header information detailing the field structure. If any special codes exist in the dataset, a separate document must be provided that details all such codes. If details of the field structure do not fit in the header, a separate document must be provided that includes such details.
- 2. Delimited text file with header information detailing the field structure. The preferred delimiter is a vertical bar "|". If any special codes exist in the dataset, a separate document must be provided that details all such codes. If details of the field structure do not fit in the header, a separate document must be provided that includes such details.

VII. Electronic Phone Records

When producing an MS Excel spreadsheet for electronic phone records, provide the files in the following format:

- 1. MS Excel spreadsheet with header information detailing the field structure. If any special codes exist in the dataset, a separate document must be provided that details all such codes. If details of the field structure do not fit in the header, a separate document must be provided that includes such details. Data must be formatted in its native format (i.e. dates in a date format, numbers in an appropriate numerical format, and numbers with leading zeroes as text).
 - a. The metadata that must be included is outlined in **Addendum B** of this document. Each field of data must be loaded into a separate column. For example, Date and Start_Time must be produced in separate columns and not combined into a single column containing both pieces of information. Any fields of data that are provided in addition to those listed in **Addendum B** must also be loaded into separate columns.

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Data Delivery Standards

VIII. Audit Workpapers

The SEC prefers for workpapers to be produced in two formats: (1) With Bates numbers in accordance with the SEC Data Delivery Standards; and (2) in native format via laptop computer, web-based viewing platform, or otherwise, allowing for viewing in the same format and organization as the firm's audit team. Prior to production of workpapers via laptop computer or web-based viewing platform, audit firms should contact the requesting SEC staff member for additional information and written agreements addressing use of software, access, and viewing protocols.

IX. Mobile Device Data

Before producing any mobile device data (including but not limited to text messages and application data) parties should reach out to the requesting SEC staff member in order to discuss the appropriate production format. Productions containing chat data from applications must be identified at the time of production and the following information must be provided to the requesting SEC staff member and the SEC Centralized Production Unit: chat application, chat data format, and how the length of a chat is determined (i.e. set duration of time, number of minutes without messages, etc.)

ADDENDUM A

The metadata of electronic document collections should be extracted and provided in a .DAT file using the field definition and formatting described below:

Field Name	Sample Data	Description
FIRSTBATES	EDC0000001	First Bates number of native file document/email
LASTBATES	EDC0000001	Last Bates number of native file document/email
		**The LASTBATES field should be populated
		for single page documents/emails.
ATTACHRANGE	EDC0000001 - EDC0000015	Bates number of the first page of the parent
		document to the Bates number of the last page of the
		last attachment "child" document
BEGATTACH	EDC0000001	First Bates number of attachment range
ENDATTACH	EDC0000015	Last Bates number of attachment range
PARENT BATES	EDC0000001	First Bates number of parent document/Email
		**This PARENT BATES field should be populated
		in each record representing an attachment "child"
CIVI D. D. MEG	EB COOCOO B EB COOCOO	document
CHILD BATES	EDC0000002; EDC0000014	First Bates number of "child" attachment(s); can be
		more than one Bates number listed depending on the number of attachments
		**The CHILD BATES field should be populated in
		each record representing a "parent" document
CUSTODIAN	Smith, John	Email: Mailbox where the email resided
COSTODIAN	Simul, John	Native: Name of the individual or department from
		whose files the document originated
FROM	John Smith	Email: Sender
PROM	John Smith	Native: Author(s) of document
		**semi-colon should be used to separate multiple
		entries
TO	Coffman, Janice; LeeW	Recipient(s)
	[mailto:LeeW@MSN.com]	**semi-colon should be used to separate multiple
		entries
CC	Frank Thompson [mailto:	Carbon copy recipient(s)
	frank Thompson@cdt.com]	**semi-colon should be used to separate multiple
		entries
BCC	John Cain	Blind carbon copy recipient(s)
		**semi-colon should be used to separate multiple
		entries
SUBJECT	Board Meeting Minutes	Email: Subject line of the email
		Native: Title of document (if available)
FILE_NAME	BoardMeetingMinutes.docx	Native: Name of the original native file, including
		extension
DATE_SENT	10/12/2010	Email: Date the email was sent
		Native: (empty)
TIME_SENT/TIME	07:05 PM GMT	Email: Time the email was sent/ Time zone in which
_ZONE		the emails were standardized during conversion.
		Native: (empty)
		**This data must be a separate field and cannot be
		combined with the DATE SENT field

TIME ZONE	GMT	The time zone in which the emails were standardized
THATE_ZONE	G.VII	during conversion.
		Email: Time zone
		Native: (empty)
LINK	D:\001\EDC0000001.msg	Hyperlink to the email or native file document
		**The linked file must be named per the
		FIRSTBATES number
MIME TYPE	application/msword	The content type of an email or native file document
		as identified/extracted from the header
FILE EXTEN	MSG	The file type extension representing the email or
		native file document; will vary depending on the
		format
AUTHOR	John Smith	Email: (empty)
		Native: Author of the document
LAST_AUTHOR	Jane Doe	Email: (empty)
		Native: Last Author of the document
DATE_CREATED	10/10/2010	Email: (empty)
		Native: Date the document was created
TIME_CREATED/T	10:25 AM GMT	Email: (empty)
IME ZONE		Native: Time the document was created including time
		zone
		**This data must be a separate field and cannot be
		combined with the DATE_CREATED field
DATE_MOD	10/12/2010	Email: (empty)
		Native: Date the document was last modified
TIME_MOD/TIME_	07:00 PM GMT	Email: (empty)
ZONE		Native: Time the document was last modified including
		the time zone
		**This data must be a separate field and cannot be
		combined with the DATE_MOD field
DATE_ACCESSD	10/12/2010	Email: (empty)
		Native: Date the document was last accessed
TIME_ACCESSD/T	07:00 PM GMT	Email: (empty)
IME ZONE		Native: Time the document was last accessed including
		the time zone
		**This data must be a separate field and cannot be
		combined with the DATE_ACCESSD field
PRINTED_DATE	10/12/2010	Email: (empty)
		Native: Date the document was last printed
FILE_SIZE	5,952	Size of native file document/email in KB
PGCOUNT	I	Number of pages in native file document/email
PATH	J:\Shared\SmithJ\October	Email: (empty)
	Agenda.doc	Native: Path where native file document was stored
		including original file name.
INTFILEPATH	Personal Folders\Deleted	Email: original location of email including original
	Items\Board Meeting	file name.
	Minutes.msg	Native: (empty)
INTMSGID	<000805c2c71b\$75977050\$cb	Email: Unique Message ID
	8306d1@MSN>	Native: (empty)

Case 1:24-cv-01858-ACR Document 26-1 Filed 02/04/25 Page 646 of 933 Data Delivery Standards

HEADER	Return-Path: <example_from@dc.edu> X-SpamCatcher-Score:1[X] Received:from[136.167.40.119] (HELO dc.edu) by fe3.dc.edu (CommuniGate Pro SMTP4.1.8) with ESMTP-TLS id 61258719 for example_to@mail.dc.edu; Mon, 23 Aug 2004 11:40:10 - 0400 Message-ID: <4129F3CA.2020509@dc.edu> Date: Mon, 23 Aug 2005 11:40:36 -400 From: Taylor Evans <example_from@dc.edu> User-Agent:Mozilla/5.0 (Windows;U; Windows NT 5.1; en-US;rv:1.0.1) Gecko/20020823 Netscape/7.0 X-Accept-Language:en-us,en MIME-Version:1.0 To: Jon Smith <example_to@mail.dc.edu> Subject:Business Development Meeting Content-Type: text/plain;charset-us-ascii; format=flowed Content-Transfer-Encoding:7bit</example_to@mail.dc.edu></example_from@dc.edu></example_from@dc.edu>	Email: The email header information Native: (empty) SHA-256 hash value of the document.
SHA256	AD6128C5CA40164AF71A1E FC800E12D2F195CE07BB5F8 C813B0888A2DDE6A06F	STA-230 hash value of the document.
OCRPATH	TEXT/001/EDC0000001.txt	Path to extracted text of the native file

Sample Image Cross-Reference File:

IMG000001,,E:\001\IMG0000001.TIF,Y,,,
IMG0000002,,E:\001\IMG0000002.TIF,,,,
IMG0000003,,E:\001\IMG0000003.TIF,,,,
IMG0000004,,E:\001\IMG0000005.TIF,Y,,,
IMG0000005,,E:\001\IMG0000005.TIF,Y,,,
IMG0000006,,E:\001\IMG0000006.TIF,,,,,

ADDENDUM B

For Electronic Phone Records, include the following fields in separate columns: For Calls:

- 1) Account Number
- 2) Connection Date Date the call was received or made
- 3) Connection Time Time call was received or made
- 4) Seizure Time Time it took for the call to be placed in seconds
- 5) Originating Number Phone that placed the call
- 6) Terminating Number Phone that received the call
- 7) Elapsed Time The length of time the call lasted, preferably in seconds
- 8) End Time The time the call ended
- 9) Number Dialed Actual number dialed
- 10) IMEI Originating Unique id to phone used to make call
- 11) IMEI Terminating- Unique id to phone used to receive call
- 12) IMSI Originating Unique id to phone used to make call
- 13) IMSI Terminating- Unique id to phone used to receive call
- 14) Call Codes Identify call direction or other routing information
- 15) Time Zone Time Zone in which the call was received or placed, if applicable

For Text messages:

- 1) Account Number
- Connection Date Date the text was received or made
- 3) Connection Time Time text was received or made
- 4) Originating Number Who placed the text
- 5) Terminating Number Who received the text
- 6) IMEI Originating Unique id to phone used to make text
- 7) IMEI Terminating Unique id to phone used to receive text
- 8) IMSI Originating Unique id to phone used to make text
- 9) IMSI Terminating- Unique id to phone used to receive text
- 10) Text Code Identify text direction, or other text routing information
- 11) Text Type Code Type of text message (sent SMS, MMS, or other)
- 12) Time Zone Time Zone in which the call was received or placed, if applicable

For Mobile Data Usage:

- 1) Account Number
- 2) Connection Date Date the data was received or made
- 3) Connection Time Time data was received or made
- 4) Originating number Number that used data
- 5) IMEI Originating Unique id of phone that used data
- 6) IMSI Originating Unique id of phone that used data
- 7) Data or Data codes Identify data direction, or other data routing information
- 8) Time Zone Time Zone in which the call was received or placed, if applicable

SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549

Supplemental Information for Persons Requested to Supply Information Voluntarily or Directed to Supply Information Pursuant to a Commission Subpoena

A. False Statements and Documents

Section 1001 of Title 18 of the United States Code provides that fines and terms of imprisonment may be imposed upon:

[W]hoever, in any matter within the jurisdiction of the executive, legislative, or judicial branch of the Government of the United States, knowingly and willfully--

- (1) falsifies, conceals, or covers up by any trick, scheme, or device a material fact;
- (2) makes any materially false, fictitious, or fraudulent statement or representation; or
- (3) makes or uses any false writing or document knowing the same to contain any materially false, fictitious, or fraudulent statement or entry.

Section 1519 of Title 18 of the United States Code provides that fines and terms of imprisonment may be imposed upon:

Whoever knowingly alters, destroys, mutilates, conceals, covers up, falsifies, or makes a false entry in any record, document, or tangible object with the intent to impede, obstruct, or influence the investigation or proper administration of any matter within the jurisdiction of any department or agency of the United States . . ., or in relation to or contemplation of any such matter.

B. Testimony

If your testimony is taken, you should be aware of the following:

- 1. Record. Your testimony will be transcribed by a reporter. If you desire to go off the record, please indicate this to the Commission employee taking your testimony, who will determine whether to grant your request. The reporter will not go off the record at your, or your counsel's, direction.
- 2. Counsel. You have the right to be accompanied, represented and advised by counsel of your choice. Your counsel may advise you before, during and after your testimony; question you briefly at the conclusion of your testimony to clarify any of the answers you give during testimony; and make summary notes during your testimony solely for your use. If you are accompanied by counsel, you may consult privately.

If you are not accompanied by counsel, please advise the Commission employee taking your testimony if, during the testimony, you desire to be accompanied, represented and advised by counsel. Your testimony will be adjourned once to afford you the opportunity to arrange to be so accompanied, represented or advised.

You may be represented by counsel who also represents other persons involved in the Commission's investigation. This multiple representation, however, presents a potential conflict of interest if one client's interests are or may be adverse to another's. If you are represented by counsel who also represents other persons involved in the investigation, the Commission will assume that you and counsel have discussed and resolved all issues concerning possible conflicts of interest. The choice of counsel, and the responsibility for that choice, is yours.

3. Transcript Availability. Rule 6 of the Commission's Rules Relating to Investigations, 17 CFR 203.6, states:

A person who has submitted documentary evidence or testimony in a formal investigative proceeding shall be entitled, upon written request, to procure a copy of his documentary evidence or a transcript of his testimony on payment of the appropriate fees: *Provided, however*, That in a nonpublic formal investigative proceeding the Commission may for good cause deny such request. In any event, any witness, upon proper identification, shall have the right to inspect the official transcript of the witness' own testimony.

If you wish to purchase a copy of the transcript of your testimony, the reporter will provide you with a copy of the appropriate form. Persons requested to supply information voluntarily will be allowed the rights provided by this rule.

4. Perjury. Section 1621 of Title 18 of the United States Code provides that fines and terms of imprisonment may be imposed upon:

Whoever--

- (1) having taken an oath before a competent tribunal, officer, or person, in any case in which a law of the United States authorizes an oath to be administered, that he will testify, declare, depose, or certify truly, or that any written testimony, declaration, deposition, or certificate by him subscribed, is true, willfully and contrary to such oath states or subscribes any material matter which he does not believe to be true; or
- (2) in any declaration, certificate, verification, or statement under penalty of periury as permitted under section 1746 of title 28. United States Code, willfully subscribes as true any material matter which he does not believe to be true.
- 5. Fifth Amendment and Voluntary Testimony. Information you give may be used against you in any federal, state, local or foreign administrative, civil or criminal proceeding brought by the Commission or any other agency.

You may refuse, in accordance with the rights guaranteed to you by the Fifth Amendment to the Constitution of the United States, to give any information that may tend to incriminate you.

If your testimony is not pursuant to subpoena, your appearance to testify is voluntary, you need not answer any question, and you may leave whenever you wish. Your cooperation is, however, appreciated.

Formal Order Availability. If the Commission has issued a formal order of investigation, it will be shown to you during your testimony, at your request. If you desire a copy of the formal order, please make your request in writing.

C. Submissions and Settlements

Rule 5(c) of the Commission's Rules on Informal and Other Procedures, 17 CFR 202.5(c), states:

Persons who become involved in . . . investigations may, on their own initiative, submit a written statement to the Commission setting forth their interests and position in regard to the subject matter of the investigation. Upon request, the staff, in its discretion, may advise such persons of the general nature of the investigation, including the indicated violations as they pertain to them, and the amount of time that may be available for preparing and submitting a statement prior to the presentation of a staff recommendation to the Commission for the commencement of an administrative or injunction proceeding. Submissions by interested persons should be forwarded to the appropriate Division Director or Regional Director with a copy to the staff members conducting the investigation and should be clearly referenced to the specific investigation to which they relate. In the event a recommendation for the commencement of an enforcement proceeding is presented by the staff, any submissions by interested persons will be forwarded to the Commission in conjunction with the staff memorandum.

The staff of the Commission routinely seeks to introduce submissions made pursuant to Rule 5(c) as evidence in Commission enforcement proceedings, when the staff deems appropriate.

Rule 5(f) of the Commission's Rules on Informal and Other Procedures, 17 CFR 202.5(f), states:

In the course of the Commission's investigations, civil lawsuits, and administrative proceedings, the staff, with appropriate authorization, may discuss with persons involved the disposition of such matters by consent, by settlement, or in some other manner. It is the policy of the Commission, however, that the disposition of any such matter may not, expressly or impliedly, extend to any criminal charges that have been, or may be, brought against any such person or any recommendation with respect thereto. Accordingly, any person involved in an enforcement matter before the Commission who consents, or agrees to consent, to any judgment or order does so solely for the purpose of resolving the claims against him in that investigative, civil, or administrative matter and not for the purpose of resolving any criminal charges that have been, or might be, brought against him. This policy reflects the fact that neither the Commission nor its staff has the authority or responsibility for instituting, conducting, settling, or otherwise disposing of criminal proceedings. That authority and responsibility are vested in the Attorney General and representatives of the Department of Justice.

D. Freedom of Information Act

The Freedom of Information Act, 5 U.S.C. 552 (the "FOIA"), generally provides for disclosure of information to the public. Rule 83 of the Commission's Rules on Information and Requests, 17 CFR 200.83, provides a procedure by which a person can make a written request that information submitted to the Commission not be disclosed under the FOIA. That rule states that no determination as to the validity of such a request will be made until a request for disclosure of the information under the FOIA is received. Accordingly, no response to a request that information not be disclosed under the FOIA is necessary or will be given until a request for disclosure under the FOIA is received. If you desire an acknowledgment of receipt of your written request that information not be disclosed under the FOIA, please provide a duplicate request, together with a stamped, self-addressed envelope.

E. Authority for Solicitation of Information

Persons Directed to Supply Information Pursuant to Subpoena. The authority for requiring production of information is set forth in the subpoena. Disclosure of the information to the Commission is mandatory, subject to the valid assertion of any legal right or privilege you might have.

Persons Requested to Supply Information Voluntarily. One or more of the following provisions authorizes the Commission to solicit the information requested: Sections 19 and/or 20 of the Securities Act of 1933; Section 21 of the Securities Exchange Act of 1934; Section 321 of the Trust Indenture Act of 1939; Section 42 of the Investment Company Act of 1940; Section 209 of the Investment Advisers Act of 1940; and 17 CFR 202.5. Disclosure of the requested information to the Commission is voluntary on your part.

F. Effect of Not Supplying Information

Persons Directed to Supply Information Pursuant to Subpoena. If you fail to comply with the subpoena, the Commission may seek a court order requiring you to do so. If such an order is obtained and you thereafter fail to supply the information, you may be subject to civil and/or criminal sanctions for contempt of court. In addition, Section 21(c) of the Securities Exchange Act of 1934, Section 42(c) of the Investment Company Act of 1940, and Section 209(c) of the Investment Advisers Act of 1940 provide that fines and terms of imprisonment may be imposed upon any person who shall, without just cause, fail or refuse to attend and testify or to answer any lawful inquiry, or to produce books, papers, correspondence, memoranda, and other records in compliance with the subpoena.

Persons Requested to Supply Information Voluntarily. There are no direct sanctions and thus no direct effects for failing to provide all or any part of the requested information.

G. Principal Uses of Information

The Commission's principal purpose in soliciting the information is to gather facts in order to determine whether any person has violated, is violating, or is about to violate any provision of the federal securities laws or rules for which the Commission has enforcement authority, such as rules of securities exchanges and the rules of the Municipal Securities Rulemaking Board. Facts developed may, however, constitute violations of other laws or rules. Information provided may be used in Commission and other agency enforcement proceedings. Unless the Commission or its staff explicitly agrees to the contrary in writing, you should not assume that the Commission or its staff acquiesces in, accedes to, or concurs or agrees with, any position, condition, request, reservation of right, understanding, or any other statement that purports, or may be deemed, to be or to reflect a limitation upon the Commission's receipt, use, disposition, transfer, or retention, in accordance with applicable law, of information provided.

H. Routine Uses of Information

The Commission often makes its files available to other governmental agencies, particularly United States Attorneys and state prosecutors. There is a likelihood that information supplied by you will be made available to such agencies where appropriate. Whether or not the Commission makes its files available to other governmental agencies is, in general, a confidential matter between the Commission and such other governmental agencies.

Set forth below is a list of the routine uses which may be made of the information furnished.

- 1. To appropriate agencies, entities, and persons when (a) it is suspected or confirmed that the security or confidentiality of information in the system of records has been compromised; (b) the SEC has determined that, as a result of the suspected or confirmed compromise, there is a risk of harm to economic or property interests, identity theft or fraud, or harm to the security or integrity of this system or other systems or programs (whether maintained by the SEC or another agency or entity) that rely upon the compromised information; and (c) the disclosure made to such agencies, entities, and persons is reasonably necessary to assist in connection with the SEC's efforts to respond to the suspected or confirmed compromise and prevent, minimize, or remedy such harm.
- 2. To other federal, state, local, or foreign law enforcement agencies; securities self-regulatory organizations; and foreign financial regulatory authorities to assist in or coordinate regulatory or law enforcement activities with the SEC.
- 3. To national securities exchanges and national securities associations that are registered with the SEC, the Municipal Securities Rulemaking Board; the Securities Investor Protection Corporation; the Public Company Accounting Oversight Board; the federal banking authorities, including, but not limited to, the Board of Governors of the Federal Reserve System, the Comptroller of the Currency, and the Federal Deposit Insurance Corporation; state securities regulatory agencies or organizations; or regulatory authorities of a foreign government in connection with their regulatory or enforcement responsibilities.
- 4. By SEC personnel for purposes of investigating possible violations of, or to conduct investigations authorized by, the federal securities laws.

- 5. In any proceeding where the federal securities laws are in issue or in which the Commission, or past or present members of its staff, is a party or otherwise involved in an official capacity.
- 6. In connection with proceedings by the Commission pursuant to Rule 102(e) of its Rules of Practice, 17 CFR 201.102(e).
- 7. To a bar association, state accountancy board, or other federal, state, local, or foreign licensing or oversight authority; or professional association or self-regulatory authority to the extent that it performs similar functions (including the Public Company Accounting Oversight Board) for investigations or possible disciplinary action.
- 8. To a federal, state, local, tribal, foreign, or international agency, if necessary to obtain information relevant to the SEC's decision concerning the hiring or retention of an employee; the issuance of a security clearance; the letting of a contract; or the issuance of a license, grant, or other benefit.
- 9. To a federal, state, local, tribal, foreign, or international agency in response to its request for information concerning the hiring or retention of an employee; the issuance of a security clearance; the reporting of an investigation of an employee; the letting of a contract; or the issuance of a license, grant, or other benefit by the requesting agency, to the extent that the information is relevant and necessary to the requesting agency's decision on the matter.
- 10. To produce summary descriptive statistics and analytical studies, as a data source for management information, in support of the function for which the records are collected and maintained or for related personnel management functions or manpower studies; may also be used to respond to general requests for statistical information (without personal identification of individuals) under the Freedom of Information Act.
- 11. To any trustee, receiver, master, special counsel, or other individual or entity that is appointed by a court of competent jurisdiction, or as a result of an agreement between the parties in connection with litigation or administrative proceedings involving allegations of violations of the federal securities laws (as defined in section 3(a)(47) of the Securities Exchange Act of 1934, 15 U.S.C. 78c(a)(47)) or pursuant to the Commission's Rules of Practice, 17 CFR 201,100 – 900 or the Commission's Rules of Fair Fund and Disgorgement Plans, 17 CFR 201.1100-1106, or otherwise, where such trustee, receiver, master, special counsel, or other individual or entity is specifically designated to perform particular functions with respect to, or as a result of, the pending action or proceeding or in connection with the administration and enforcement by the Commission of the federal securities laws or the Commission's Rules of Practice or the Rules of Fair Fund and Disgorgement Plans.
- 12. To any persons during the course of any inquiry, examination, or investigation conducted by the SEC's staff, or in connection with civil litigation, if the staff has reason to believe that the person to whom the record is disclosed may have further information about the matters related therein, and those matters appeared to be relevant at the time to the subject matter of the inquiry.
- 13. To interns, grantees, experts, contractors, and others who have been engaged by the Commission to assist in the performance of a service related to this system of records and who need access to the records for the purpose of assisting the Commission in the efficient administration of its programs, including by performing clerical, stenographic, or data analysis functions, or by reproduction of records by electronic or other means. Recipients of these records shall be required to comply with the requirements of the Privacy Act of 1974, as amended, 5 U.S.C. 552a.
- 14. In reports published by the Commission pursuant to authority granted in the federal securities laws (as such term is defined in section 3(a)(47) of the Securities Exchange Act of 1934, 15 U.S.C. 78c(a)(47)), which authority shall include, but not be limited to, section 21(a) of the Securities Exchange Act of 1934, 15 U.S.C. 78u(a)).
- 15. To members of advisory committees that are created by the Commission or by Congress to render advice and recommendations to the Commission or to Congress, to be used solely in connection with their official designated functions.
- 16. To any person who is or has agreed to be subject to the Commission's Rules of Conduct, 17 CFR 200.735-1 to 200.735-18, and who assists in the investigation by the Commission of possible violations of the federal securities laws (as such term is defined in section 3(a)(47) of the Securities Exchange Act of 1934, 15 U.S.C. 78c(a)(47)), in the preparation or conduct of enforcement actions brought by the Commission for such violations, or otherwise in connection with the Commission's enforcement or regulatory functions under the federal securities laws.
- 17. To a Congressional office from the record of an individual in response to an inquiry from the Congressional office made at the request of that individual.
- 18. To members of Congress, the press, and the public in response to inquiries relating to particular Registrants and their activities, and other matters under the Commission's jurisdiction.

- 19. To prepare and publish information relating to violations of the federal securities laws as provided in 15 U.S.C. 78c(a)(47)), as amended.
- 20. To respond to subpoenas in any litigation or other proceeding.
- 21. To a trustee in bankruptcy.
- 22. To any governmental agency, governmental or private collection agent, consumer reporting agency or commercial reporting agency, governmental or private employer of a debtor, or any other person, for collection, including collection by administrative offset, federal salary offset, tax refund offset, or administrative wage garnishment, of amounts owed as a result of Commission civil or administrative proceedings.

* * * * *

Small Business Owners: The SEC always welcomes comments on how it can better assist small businesses. If you would like more information, or have questions or comments about federal securities regulations as they affect small businesses, please contact the Office of Small Business Policy, in the SEC's Division of Corporation Finance, at 202-551-3460. If you would prefer to comment to someone outside of the SEC, you can contact the Small Business Regulatory Enforcement Ombudsman at http://www.sba.gov/ombudsman or toll free at 888-REG-FAIR. The Ombudsman's office receives comments from small businesses and annually evaluates federal agency enforcement activities for their responsiveness to the special needs of small business.

BACKGROUND QUESTIONNAIRE

Please respond to the following questions. Answering these questions will reduce the amount of time spent on background information when you testify. You may use the space provided, attaching additional sheets as necessary, or supply the information in a separate document. If you would like an electronic version of this document, please contact us and we will provide you with one.

To	day's date:
1.	What is your full name?
2.	Have you ever been known by any other name? Yes No If yes, list each such name and the period(s) in which you were known by that name.
3.	Date and place of birth?
4.	Country of citizenship?
5.	Marital Status? Married Divorced Single
6.	List the names, ages, and occupations of your children, if any.
7.	List all residences you occupied at any time during the last three years, including vacation homes, beginning with your current residence. For each residence, state the address, dates of residence, and all telephone numbers (including facsimile numbers) listed at that address.

ELECTRONIC COMMUNICATIONS ACCOUNTS

8. List all telephone numbers and telecommunication services that were in your name or that you regularly used during the last three years. Include all residential business, cellular, credit card, and VOIP numbers, and services such as Google Voice, Skype, and video conference

services. For each telephone number, state the name of the corresponding carrier (e.g., AT&T, Verizon, Vonage, Skype, etc.).

- 9. List the universal resource locator (URL) for all websites or blogs that you established or for which you had the authority to control content at any time during the last three years. For each website, state the name(s) of the domain name registrar (e.g. GoDaddy) through which the URL was obtained, the name(s) of all individuals or entities who provided web site hosting or design services, whether the website contained primarily business or personal information, and the time period in which it was active.
- 10. List all electronic mail addresses and social networking accounts (e.g. Facebook, LinkedIn, Twitter, Instagram, Flickr, Google+) that were in your name or that you regularly used at any time during the last three years. Include all personal, business, or shared electronic mail addresses and social networking accounts. For each electronic mail address and social networking account, state the name(s) of the corresponding internet service provider(s) (e.g. Google, Yahoo, ΛOL, or your employer), whether the address was used primarily for business or personal correspondence, and the time period in which it was active.
- 11. List all usernames for instant messaging and similar electronic communications services (including, but not limited to, Bloomberg, Skype, Whatsapp, Telegram, Signal, and Discord), other than those listed in response to questions above, that were in your name or that you regularly used at any time during the last three years. Include all personal, business, and shared addresses. For each username, state the name(s) of the communication service provider (e.g. Google, AOL, etc.), whether the address was used primarily for business or personal correspondence, the time period in which it was active, and the name of the software application(s) (e.g. GTalk, ICQ, MSN Messenger) you used to access it.
- 12. List all internet message boards and discussion forums (including, but not limited to, Money Maker Group, PNQI Message Board, Investors Hub Daily) of which you were a member or

on which you posted messages at any time during the last three years. For each message board or discussion forum, state the service provider and your member name or identification information.

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13. Are you	now, or	have you ever	r been, ar	n officer o	r director	of any	publicly-held	l company?
Yes	_ No	·						

14. Are you now, or have you ever been, a beneficial owner, directly or indirectly, of five per cent or more of any class of equity securities of any publicly held company? Yes _____ No ____.

PRIVATELY-HELD COMPANIES

- 15. Are you now, or have you ever been, a beneficial owner, directly or indirectly, of any privately-held company (i.e., corporation, partnership, limited liability company or other corporate form)?
- 16. Are you now, or have you ever been, a manager or a member of any privately-held company (i.e., corporation, partnership, limited liability company or other corporate form)?

SECURITIES ACCOUNTS

17. List all securities or brokerage accounts that you have held in your name, individually or jointly, at any time during the last three years. Include all foreign accounts. For each such

Background	Questionnaire
Page 4	

account, identify: (i) the brokerage firm; (ii) the location of the branch where your account is or was held; (iii) your broker; (iv) the type of account (i.e., cash, margin or IRA); (v) the account number; and (vi) whether any person has ever held discretionary authority or power of attorney over the account; if so, name such person(s).

18. List all securities or brokerage accounts (including foreign accounts), other than those listed in your answer to the previous question, in which you had any direct or indirect beneficial interest at any time during the last three years. For each such account, provide the information requested by the previous question.

19. List all securities or brokerage accounts (including foreign accounts), other than those listed in your answers to the two previous questions, over which you had any control at any time during the last three years. For each such account, provide the information requested by the first question in this section.

BANK ACCOUNTS

20. List all accounts you have held in your name at any financial institution (i.e., bank, thrift, or credit union) at any time during the last three years. Include all foreign accounts. For each such account, identify: (i) the financial institution; (ii) the address of the branch at which your account is or was held; (iii) the type of account (i.e., checking, savings, money market or IRA); (iv) the account number; and (v) whether any person has ever had discretionary authority or power of attorney over the account; if so, name such person(s).

21. List all accounts at financial institutions (including foreign accounts), other than those listed in your answer to the previous question, in which you had any direct or indirect beneficial

interest at any time during the last three years. For each such account, provide the information requested by the previous question.

- 22. List all accounts at financial institutions (including foreign accounts), other than those listed in your answers to the two previous questions, over which you had any control at any time during the last three years. For each such account, provide the information requested by the first question in this section.
- 23. List any other accounts (including foreign accounts), other than those listed in your answers to the previous questions in this section, that were held in your name, in which you had any direct or indirect beneficial interest, or over which you had any control, that you have used to transfer funds during the last three years, including, but not limited to, PayPal accounts. For each such account, provide the information requested by the first question in this section.

PRIOR PROCEEDINGS

- 24. Have you ever testified in any proceeding conducted by the staff of the Securities and Exchange Commission, a U.S. or foreign federal or state agency, a U.S. or foreign federal or state court, a stock exchange, the Financial Industry Regulatory Authority ("FINRA") or any other self-regulatory organization ("SRO"), or in any arbitration proceeding related to securities transactions?
- 25. Have you ever been deposed in connection with any court proceeding? Yes ____ No ____.

26.	Have you ever been named as a defendant or respondent in any action or proceeding brought by the SEC, any other U.S. or foreign federal agency, a state securities agency, FINRA, an SRO, or any exchange? Yes No
27.	Have you ever been a defendant in any action (other than those listed in response to the previous question) alleging violations of the federal securities laws? Yes No
28.	Have you ever been a defendant in any criminal proceeding other than one involving a minor traffic offense? Yes No
	DUCATIONAL HISTORY Provide the requested information about each educational institution that you have attended, beginning with the most recent and working backward to the date that you completed high school.
30.	Other than courses taken in connection with institutions listed in response to question 29, list any securities, accounting or business related courses taken since high school. For each such course, identify the date that the course was completed and the name of the institution or organization that offered the course.
	OFESSIONAL LICENSES/CLUBS Do you hold, or have you ever held, any professional license? Yes No

35. State your employment activities, beginning with the present and working backward to the date that you completed high school and attach a recent copy of your resume or curriculum vitae. For each position you have held (including multiple positions or titles with the same employer), provide the following information:

CONTINUE ON ADDITIONAL SHEETS IF NECESSARY

To: mhk admin[mhkadmin@gusraekaplan.com], (S) Martin Kaplan[mkablan@gusraekaplan.com], (S) Martin Kaplan[mkablan.com], (S) Martin Kaplan[mkablan.

From: (b)(6); (b)(7)(C)

Sent: 2024-02-29T17:00:22Z

Subject: SMAIL C-08950

Received: 2024-02-29T17:00:30Z 2024.02.29 Ltr to M. Kaplan Encl. FO.pdf

20024.02.29 C-8950 Prometheum Inc. Subpoena.pdf

2024.02.29 C-8950 Prometheum Ember Capital Subpoena.pdf

Dear Mr. Kaplan:

Enclosed please find a copy of the Formal Order in C-8950 and its supplements. We are withdrawing the subpoenas previously issued to your clients, Prometheum Ember Capital, LLC and Prometheum, Inc., on February 27, 2024. Please see the attached newly issued subpoenas to your clients with today's date. Other than the dates, and the return dates, the subpoenas are identical.

Thank you,
(b)(6);

(b)(6); (b)(7)(C)

b)(6): Division of Enforcement

U.S. Securities and Exchange Commission

100 Pearl Street, Suite 20-100

New York, NY 10004 (b)(6): (b)(7)

OFFICE (b)(6); (b)(7)(C)

(b)(6): <u>@sec.gov</u>

From: mhk admin <mhkadmin@gusraekaplan.com>

Sent: Wednesday, February 28, 2024 9:20 AM

Cc: Martin Kaplan < mkaplan@gusraekaplan.com>

Subject: C-08950

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

(b)(6); (b)(7)(C)

On behalf of Mr. Kaplan please see attached correspondence.

Donna Quartiero, Legal Secretary | Gusrae Kaplan Nusbaum PLLC | 120 Wall Street | New York, NY 10005 | T: (212) 269-1400 | mhkadmin@gusraekaplan.com | www.gusraekaplan.com | <a href="mailto:www.gusrae

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UNITED STATES SECURITIES AND EXCHANGE COMMISSION

CHICAGO REGIONAL OFFICE SUITE 1450 175 WEST JACKSON BLVD. CHICAGO, ILLINOIS 60604

(b)(6); (b)(7)(C)	
DIVISION OF ENFORCE	MENT

February 29, 2024

TELEPHONE: (312) 886-3936

VIA EMAIL [mkaplan@gusraekaplan.com]

Martin H. Kaplan Gusrae Kaplan Nusbaum PLLC 120 Wall Street, Floor 25 New York, NY 10005

Re: C-08950

Esec.gov.

Dear Mr. Kaplan:

(b)(6); (b)(7)(C)

I am writing in response to your letter dated February 28, 2024, in which you requested a copy of the Formal Order of Investigation (together with its supplements, the "Formal Order") in the above-referenced matter. Pursuant to Rule 7(a) of the Commission's Rules Relating to Investigations, your request has been granted. Λ copy of the Formal Order is enclosed.

Sincerely,
(b)(6); (b)(7)(C)

Division of Enforcement

NON-PUBLIC

UNITED STATES OF AMERICA Before the SECURITIES AND EXCHANGE COMMISSION March 28, 2023

In the Matter of

Ethereum 2.0,

C-08950

ORDER DIRECTING PRIVATE INVESTIGATION AND DESIGNATING OFFICERS TO TAKE TESTIMONY

I.

The Commission has information that tends to show that from at least late 2018:

- A. Ethereum operates as a permissionless blockchain with smart contract functionality and its native crypto asset is Ether (ETH). Ethereum launched in 2015. Neither Ethereum nor any of its offers or sales of securities are registered with the Commission in any capacity.
- B. In possible violation of Sections 5(a) and 5(c) of the Securities Act of 1933 ("Securities Act"), Ethereum and/or its officers, directors, employees, partners, subsidiaries, and/or affiliates, and other persons or entities, directly or indirectly, may have been or may be offering to sell, selling, and delivering after sale to the public, or may have been or may be offering to sell or to buy through the use or medium of any prospectus or otherwise, certain securities, including, but not limited to ETH, as to which no registration statement was or is in effect or on file with the Commission, and for which no exemption was or is available. While engaged in the above-described activities, such persons or entities, directly or indirectly, may have been or may be making use of any means or instruments of transportation or communication in interstate commerce or of the mails.

II.

The Commission, deeming such acts and practices, if true, to be possible violations of the Sections 5(a) and (c) of the Securities Act, finds it necessary and appropriate and hereby:

ORDERS, pursuant to the provisions of Section 20(a) of the Securities Act that a private investigation be made to determine whether any persons or entities have engaged in, or are about to engage in, any of the reported acts or practices or any acts or practices of similar purport or object; and

FURTHER ORDERS, pursuant to the pro	ovisions of Section 19(c) of the Securities Act
that for purposes of such investigation, (b)(6); (b)(7)(C)	5)
(b)(6); (b)(7)(C)	
[(b)(6); (b)(7)(C)	
	and each of them, are hereby designated as
officers of the Commission and are empowered to	o administer oaths and affirmations, subpoena
witnesses, compel their attendance, take evidence	e, and require the production of any books,
papers, correspondence, memoranda, or other rec	ords deemed relevant or material to the inquiry,
and to perform all other duties in connection there	

For the Commission, by the Division of Enforcement, pursuant to delegated authority.¹

Gurbir S. Grewal

Director, Division of Enforcement

Date Approved: March 28, 2023

Affirmed by the Commission on 04/13/2023

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¹ 17 CFR 200.30-4(a)(13); Public Law 87-592.

NON-PUBLIC

UNITED STATES OF AMERICA Before the SECURITIES AND EXCHANGE COMMISSION

November 5, 2023

In	tho	M	atter	Λf
	1111	100	24 1 1 1 1 1	411

Ethereum 2.0

C-08950

SUPPLEMENTAL ORDER DESIGNATING ADDITIONAL OFFICERS

IT IS ORDERED that the order of the Commission adopted on March 28, 2023, authorizing a private investigation of the above captioned matter, based upon possible violations of the provisions of the federal securities laws, be and it is hereby amended by designating as additional officers of the Commission, (b)(6): (b)(7)(C)

(b)(6): (b)(7)(C)

For the Commission, by the Division of Enforcement, pursuant to delegated authority.1

Gurbir S. Grewal
Director, Division of Enforcement

Date Approved: November 5, 2023

¹ 17 C.F.R. 200.30-4(a)(1); Public Law 87-592.

NON-PUBLIC

UNITED STATES OF AMERICA Before the SECURITIES AND EXCHANGE COMMISSION

February 28, 2024

In	the	Matter	οf
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Ethereum 2.0

C-08950

SUPPLEMENTAL ORDER DESIGNATING ADDITIONAL OFFICERS AND REMOVING AN OFFICER

IT IS ORDERED that the order of the Commission adopted on March 28, 2023, authorizing a private investigation of the above captioned matter, based upon possible violations of the provisions of the federal securities laws, be and it is hereby amended by removing as an officer of the Commission, (b)(6); (b)(7)(C) and designating as additional officers of the Commission, (b)(6); (b)(7)(C)

For the Commission, by the Division of Enforcement, pursuant to delegated authority.¹

CON.

Gurbir S. Grewal Director, Division of Enforcement

Date Approved: February 28, 2024

¹ 17 C.F.R. 200.30-4(a)(1); Public Law 87-592.



UNITED STATES SECURITIES AND EXCHANGE COMMISSION

100 PEARL STREET, SUITE 20-100 NEW YORK, NY 10004-2616

DIVISION OF ENFORCEMENT

February 29, 2024

VIA SECURE EMAIL

Prometheum, Inc. c/o Martin H. Kaplan Gusrae Kaplan Nusbaum PLLC 120 Wall Street, Floor 25 New York, NY 10005 mkaplan@gusraekaplan.com

Re: C-08950

Dear Mr. Kaplan:

The enclosed subpoena has been issued pursuant to a formal order entered by the United States Securities and Exchange Commission. Pursuant to Rule 8 of the United States Securities and Exchange Commission's Rules Relating to Investigations, 17 C.F.R. § 203.8, I have enclosed a subpoena for documents issued to Prometheum, Inc. ("Prometheum") in connection with the above-referenced investigation.

The enclosed subpoena requires Prometheum to produce documents to the SEC by March 14, 2024 to:

ENF-CPU U.S. Securities and Exchange Commission 14420 Albemarle Point Place, Suite 102 Chantilly, VA 20151-1750

For smaller electronic productions under 10MB in size, the materials may be emailed to the following email address: ENF-CPU@scc.gov.

Pl	ease also pro	ovide a duplic	ate copy of an	v document p	roduction cover	r letters to me at
(b)(b);	·			7 <u></u>		1 4
	@sec.gov, (t			@sec.gov, (b)(o); (b)(1)(C)	at
(b)(6); (b)(7)(C)	usec.gov,	and ^{(b)(6); (b)(7)(0}	at (b)(6);	ûsec.gov.	Additionally, 1	please include th
SEC matte	er number at	nd the name o	f the requestir	ig attorney wh	ien responding.	

Please carefully read the subpoena attachment, which contains, among other things, important instructions related to the manner of producing documents. In particular, if Prometheum prefers to send us copies of original documents, the staff requests that you scan and produce hard copy documents, as well as electronic documents, in an electronic format consistent with the SEC Data Delivery Standards attached hereto. All electronic documents responsive to the subpoena, including all metadata, should also be produced in their native software format. If you have any questions concerning the production of documents in an electronic format, please contact me as soon as possible and in any event before producing documents. For security reasons, we strongly encourage the encryption of sensitive documents before production.

When producing the records, please consecutively number and mark each document produced with a symbol that identifies it as being produced by Prometheum and provide an index which briefly identifies the documents produced.

In your cover letter(s) accompanying the production of responsive documents, please enclose a list briefly describing each item you send. The list should identify the paragraph(s) in the subpoena attachment to which each item responds. Please also state in the cover letter(s) whether you believe Prometheum has met the obligations of the subpoena by searching carefully and thoroughly for everything called for by the subpoena and sending it all to us.

A copy of the subpoena should be included with the documents that are produced. Correspondence should reference case number and requesting SEC staff member.

Passwords for documents, files, compressed archives, and encrypted media should be provided separately either via email addressed to ENF-CPU@sec.gov, or in a separate cover letter mailed separately from the data. Password correspondence should reference case number and requesting SEC staff member.

In addition, for any documents that qualify as records of regularly conducted activities under Federal Rule of Evidence 902(11), please have the appropriate representative(s) of Prometheum complete a business records certification (a sample of which is enclosed) and return it with the document production. Execution of this certification may allow the Commission to introduce the documents provided by Prometheum in any subsequent judicial proceeding, without requiring the testimony of a records custodian.

Enclosed is a copy of the Commission's Form 1662, entitled "Supplemental Information for Persons Requested to Supply Information Voluntarily or Directed to Supply Information Pursuant to a Commission Subpoena." This form explains how we may use the information which Prometheum provides to the Commission and has other important information.

This investigation is a non-public, fact-finding inquiry. We are trying to determine whether there have been any violations of the federal securities laws. The investigation does not mean that we have concluded that anyone has violated the law. Also, the investigation does not mean that we have a negative opinion of any person, entity, or security.

If you have	any questions	or would like to	discuss this matte	r, you may	contact me at
(b)(6); (b)(7)(C)]				

Sincerely,		
(b)(6); (b)(7)(C)		
Division of	f Enfor	cement
(b)(6); (b)(7)(C)		
(b)(6); (b)(7)(C)	ysec.go	DV

Enclosures:

Subpoena and Attachment Business Records Certification SEC Data Delivery Standards SEC Form 1662



SUBPOENA

UNITED STATES OF AMERICA SECURITIES AND EXCHANGE COMMISSION

C-08950

To: Prometheum, Inc. c/o Martin H. Kaplan Gusrae Kaplan Nusbaum PLLC 120 Wall Street, Floor 25 New York, NY 10005

YOU MUST PRODUCE everything specified in the Attachment to this subpoena to officers of the Securities and Exchange Commission, at the place, date and time specified below:

ENF-CPU, U.S. Securities and Exchange Commission, 14420 Albemarle Point Place, Suite 102 Chantilly, VA 20151-1750, no later than March 14, 2024.

YOU MUST TESTIFY before officers of the Securities and Exchange Commission, at the place, date and time specified below:

FEDERAL LAW REQUIRES YOU TO COMPLY WITH THIS SUBPOENA.

If you do not comply with this subpoena, the SEC may bring an action in Federal Court to enforce this subpoena. Failure to comply with a court order enforcing this subpoena may result in the court imposing a fine, imprisonment, or both.

By: (b)(6); (b)(7)(C) Date: February 29, 2024

U.S. Securities and Exchange Commission New York Regional Office 100 Pearl Street, Suite 20-100 New York, NY 10004-2616

I am an officer of the U.S. Securities and Exchange Commission authorized to issue subpoenas in this matter. The Securities and Exchange Commission has issued a formal order authorizing this investigation under Section 20(a) of the Securities Act of 1933.

NOTICE TO WITNESS: If you claim a witness fee or mileage, submit this subpoena with the claim voucher.

SUBPOENA ATTACHMENT FOR PROMETHEUM, INC.

C-08950

February 29, 2024

Definitions

As used in this subpoena, the words and phrases listed below shall have the following meanings:

- 1. "Prometheum, Inc." means the entity doing business under the name "Prometheum, Inc.," including parents, subsidiaries, affiliates, predecessors, successors, officers, directors, employees, agents, general partners, limited partners, partnerships and aliases, code names, or trade or business names used by any of the foregoing.
- 2. "Communication" means any correspondence, contact, discussion, e-mail, instant message, or any other kind of oral or written exchange or transmission of information (in the form of facts, ideas, inquiries, or otherwise), including but not limited to those made on Social Media Services, and any response thereto between two or more Persons or entities, including, without limitation, all telephone conversations, face-to-face meetings or conversations, internal or external discussions, or exchanges of a Document or Documents.
- 3. "Concerning" means directly or indirectly, in whole or in part, describing, constituting, evidencing, recording, evaluating, substantiating, concerning, referring to, alluding to, in connection with, commenting on, relating to, regarding, discussing, showing, analyzing or reflecting.
- 4. "ConsenSys" means the entity or business doing business under the name ConsenSys Software, Inc., including parents, subsidiaries, affiliates, predecessors, successors, officers, directors, employees, agents, general partners, limited partners, partnerships and aliases, owners, code names, or trade or business names used by any of the foregoing.
- 5. "Document" shall include, but is not limited to, any written, printed, or typed matter including, but not limited to all drafts and copies bearing notations or marks not found in the original, letters and correspondence, interoffice communications, slips, tickets, records, worksheets, financial records, accounting documents, bookkeeping documents, memoranda, reports, manuals, telephone logs, facsimiles, messages of any type, telephone messages, text messages, voice mails, tape recordings, notices, instructions, minutes, summaries, notes of meetings, file folder markings, and any other organizational indicia, purchase orders, information recorded by photographic process, including microfilm and microfiche, computer printouts, spreadsheets, and other electronically stored information, including writings, drawings, graphs, charts, photographs, sound recordings, images, and other data or data compilations that are stored in any medium from which information can be retrieved, obtained, manipulated, or translated.

- 6. "ETH" means Ether or the native crypto asset for the Ethereum blockchain and network.
- 7. "Ethereum Developers" refers to any anyone developing on the Ethereum blockchain and network, including, but not limited to, Ethereum protocol developers also known as Ethereum core developers.
- 8. The "Ethereum Foundation" means the entity or business doing business under the name "Ethereum Foundation," including, but not limited to, ethereum.org and parents, subsidiaries, affiliates, predecessors, successors, officers, directors, employees, agents, general partners, limited partners, partnerships and aliases, owners, code names, or trade or business names used by any of the foregoing.
- 9. "The Merge" or "Ethereum 2.0" means the transition by the Ethereum blockchain of its consensus mechanism from proof-of-work to proof-of-stake.
- 10. The term "You" and "Your" means the Person to whom or entity to which this subpoena was issued.
- 11. To the extent necessary to bring within the scope of this this subpoena any information or Documents that might otherwise be construed to be outside its scope:
 - a. the word "or" means "and/or";
 - b. the word "and" means "and/or";
 - c. the functional words "each," "every" "any" and "all" shall each be deemed to include each of the other functional words;
 - d. the masculine gender includes the female gender and the female gender includes the masculine gender; and
 - e. the singular includes the plural and the plural includes the singular.

Instructions

- 1. Unless otherwise specified, this subpoena calls for production of the original Documents and all copies and drafts of same. Documents responsive to this subpoena may be in electronic or paper form. Electronic Documents such as email should be produced in accordance with the attached Document entitled SEC Data Delivery Standards. All responsive electronic Documents, including all metadata, should also be produced in their native software format.
- 2. For Documents in paper format, you may send the originals, or, if you prefer, you may send copies of the originals. The Commission cannot reimburse you for the copying costs. If you are sending copies, the staff requests that you scan (rather than photocopy) hard copy Documents and produce them in an electronic format consistent with the SEC Data Delivery Standards. Alternatively, you may send us photocopies of the Documents in paper format. If you choose to send copies, you <u>must</u> secure and retain the originals and store them in a safe place. The staff may later request or require that you produce the originals.

- 3. Whether you scan or photocopy Documents, the copies must be identical to the originals, including even faint marks or print. Also, please note that if copies of a Document differ in any way, they are considered separate Documents and you must send each one. For example, if you have two copies of the same letter, but only one of them has handwritten notes on it, you must send both the clean copy and the one with notes.
- 4. In producing a photocopy of an original Document that contains post-it(s), notation flag(s), or other removable markings or attachments which may conceal all or a portion of the markings contained in the original Document, photocopies of the original Document both with and without the relevant post-it(s), notation flag(s), or removable markings or attachments should be produced.
- 5. Documents should be produced as they are kept in the ordinary course of business or be organized and labeled to correspond with the categories in this request. In that regard, Documents should be produced in a unitized manner, i.e., delineated with staples or paper clips to identify the Document boundaries.
- 6. Documents should be labeled with sequential numbering (bates-stamped).
- 7. The scope of any given request should not be limited or narrowed on the basis that it calls for Documents that are responsive to another request.
- 8. This subpoena covers all Documents in or subject to your possession, custody or control, including all Documents that are not in your immediate possession but that you have the effective ability to obtain, that are responsive, in whole or in part, to any of the individual requests set forth below. If, for any reason including a claim of attorney-client privilege you do not produce something called for by the request, you should submit a list of what you are not producing. The list should describe each item separately, noting:
 - a. its author(s);
 - b. its date:
 - c. its subject matter;
 - d. the name of the Person who has the item now, or the last Person known to have it;
 - e. the names of everyone who ever had the item or a copy of it, and the names of everyone who was told the item's contents;
 - f. the basis upon which you are not producing the responsive Document;
 - g. the specific request in the subpoena to which the Document relates;
 - h. the attorney(s) and the client(s) involved; and
 - i. in the case of the work product doctrine, the litigation for which the Document was prepared in anticipation.
- 9. If Documents responsive to this subpoena no longer exist because they have been lost, discarded, or otherwise destroyed, you should identify such Documents and give the date on which they were lost, discarded, or destroyed.

Documents to be Produced

- 1. Documents and Communications Concerning any legal analysis of ETH, the Merge, or Ethereum 2.0, including, but not limited to, Communications with the Ethereum Foundation, ConsenSys, or Ethereum Developers. Please note that the above Instructions discuss the procedures for how to handle privileged documents.
- 2. Documents upon which You relied in any analysis responsive to Request No. 1 above.
- 3. Communications with any regulator or government agency in the U.S. or a foreign country Concerning ETH, the Merge, or Ethereum 2.0, including, but not limited to, Communications by attorneys or agents representing you.

DECLARATION OF [Insert Name] CERTIFYING RECORDS OF REGULARLY CONDUCTED BUSINESS ACTIVITY

I, the undersigned, [insert name], pursuant to 28 U.S.C. § 1746, declare that:

- 1. I am employed by [insert name of company] as [insert position] and by reason of my position am authorized and qualified to make this declaration. [if possible supply additional information as to how person is qualified to make declaration, e.g., I am custodian of records, I am familiar with the company's recordkeeping practices or systems, etc.]
- 2. I further certify that the documents [attached hereto or submitted herewith] and stamped [insert bates range] are true copies of records that were:
 - (a) made at or near the time of the occurrence of the matters set forth therein, by, or from information transmitted by, a person with knowledge of those matters;
 - (b) kept in the course of regularly conducted business activity; and
 - (c) made by the regularly conducted business activity as a regular practice.

I declare under penalty of perjury that the foregoing is true and correct. Executed on [date].

[Name]	



U.S. Securities and Exchange Commission

Data Delivery Standards

This document describes the technical requirements for paper and electronic document productions to the U.S. Securities and Exchange Commission (SEC). **Any questions or proposed file formats other than those described below must be discussed with the legal and technical staff of the SEC Division of Enforcement prior to submission. **

General Instructions	
Delivery Formats	2
I. Imaged Productions	7
1. Images 1 roductions 1. Images 1.	.:
2. Image Cross-Reference File	
3. Data File	
4. Text	
5. Linked Native Files	
II. Native File Productions without Load Files	
III. Adobe PDF File Productions	
IV. Audio Files	
V. Video Files	, 4
VI. Electronic Trade and Bank Records	
VII. Electronic Phone Records	. 4
VIII. Audit Workpapers	5
IX. Mobile Device Data	5

General Instructions

The current mailing address for all physical productions sent to the SEC is:

ENF-CPU (U.S. Securities & Exchange Commission), 14420 Albemarle Point Place, Suite 102, Chantilly, VA 20151-1750

Electronic files must be produced in their native format, i.e. the format in which they are ordinarily used and maintained during the normal course of business. For example, an MS Excel file must be produced as an MS Excel file rather than an image of a spreadsheet. (Note: An Adobe PDF file is not considered a native file unless the document was initially created as a PDF.)

In the event produced files require the use of proprietary software not commonly found in the workplace, the SEC will explore other format options with the producing party.

The proposed use of file de-duplication methodologies or computer-assisted review or technology-assisted review (TAR) during the processing of documents must be discussed with and approved by the legal and technical staff of the Division of Enforcement (ENF). If your production will be de-duplicated it is vital that you 1) preserve any unique metadata associated with the duplicate files, for example, custodian name and file location and, 2) make that unique metadata part of your production to the SEC.

General requirements for ALL document productions are:

- 1. A cover letter must be included with each production and should include the following information:
 - a. Case number, ease name and requesting SEC staff member name
 - b. A list of each piece of media included in the production with its unique production volume number
 - c. A list of custodians, identifying the Bates range for each custodian
 - d. A list of redacted documents and the redaction reason
 - c. The time zone in which the emails were standardized during conversion
 - f. Whether the production contains native files produced from Mac operating system environments
- Data can be produced on CD, DVD, thumb drive, etc., using the media requiring the least number of deliverables and labeled with the following:
 - a. Case number
 - b. Production date
 - c. Producing party
 - d. Bates range (if applicable)
- All submissions must be organized by custodian unless otherwise instructed.
- 4. All document family groups, i.e. email attachments, embedded files, etc., should be produced together and children files should follow parent files sequentially in the Bates numbering.
- 5. All load-ready collections should include only one data load file and one image pointer file.
- 6. All load-ready text must be produced as separate document-level text files.
- 7. All load-ready collections should account for custodians in the custodian field.
- All load-ready collections must provide the extracted contents of any container files to ensure all relevant files are produced as separate records.
- 9. Audio files should be separated from data files if both are included in the production.
- 10. Only alphanumeric characters and the underscore character are permitted in file names and folder names. Special characters are not permitted.
- 11. All electronic productions submitted on media must be produced using industry standard self-extracting encryption software.
- 12. The SEC uses 7zip to access compressed files. Note that the SEC cannot accept files that use AES-256 Jpeg or pkAES-256-Cert Deflate compression methods, even if the files are created with 7zip. If you have any questions or need additional information, please reach out to the requesting SEC staff member.
- 13. Electronic productions of 30 GB or less are strongly encouraged to be submitted via Secure File Transfer. All Secure File Transfers should be sent to the SEC Centralized Production Unit (ENF-CPU@sec.gov) with a CC to the requesting SEC staff member. If you do not have your own Secure File Transfer application, you may reach out to the requesting SEC staff member for a link to the SEC system in order to upload your production. If using the SEC Secure File Transfer system, you will NOT be able to CC individuals outside the SEC on your upload transmission. Note that the SEC cannot accept productions made using file sharing sites such as Google Drive or Microsoft Office 365.
- 14. Productions containing BSA or SAR material must be encrypted. Secure File Transfer applications may be used to produce BSA or SAR material. BSA or SAR material should be segregated and appropriately marked as BSA or SAR, or should be produced separately from other case related records.
- 15. Passwords for electronic documents, files, compressed archives and encrypted media must be provided separately either via email or in a cover letter apart from the media.
- 16. All electronic productions should be produced free of computer viruses.
- 17. Before producing forensically collected images, parties should reach out to the requesting SEC staff member in order to discuss appropriate handling.
- 18. Before producing unique data sets (large sets of relational data, website reconstruction, chat room data, etc.), parties should reach out to the requesting SEC staff member in order to discuss an appropriate production format.
- Additional technical descriptions can be found in the addendum to this document.

Please note that productions sent to the SEC via United States Postal Service are subject to Mail Irradiation, and as a result electronic productions may be damaged.

Delivery Formats

Imaged Productions

The SEC prefers that all scanned paper and electronic file collections be produced in a structured format including industry standard load files, Bates numbered image files, native files and searchable document-level text files. Bates numbers should not contain spaces. Hyphens (-) and underscores (-) are acceptable.

1. Images

- Black and white images must be 300 DPI Group IV single-page TIFF files
- b. Color images must be produced in JPEG format
- File names cannot contain embedded spaces or special characters (including the comma)
- d. Folder names cannot contain embedded spaces or special characters (including the comma)
- e. All image files must have a unique file name, i.e. Bates number
- f. Images must be endorsed with sequential Bates numbers in the lower right corner of each image
- The number of image files per folder should not exceed 2,000 files g.
- h. Excel spreadsheets should have a placeholder image named by the Bates number of the file
- AUTOCAD/photograph files should be produced as a single page JPEG file

2. Image Cross-Reference File

The image cross-reference file (LOG or .OPT) links the images to the database records. It should be a comma-delimited file consisting of seven fields per line with a line in the cross-reference file for every image in the database with the following format:

ImageID, VolumeLabel, ImageFilePath, DocumentBreak, FolderBreak, BoxBreak, PageCount

3. Data File

The data file (.DAT) contains all of the fielded information that will be loaded into the database.

- The first line of the .DAT file must be a header row identifying the field names
- The .DAT file must use the following *Concordance*® default delimiters:

Comma ¶ ASCII character (020)

Quote b ASCII character (254)

- c. If the .DAT file is produced in Unicode format it must contain the byte order marker
- d. Date fields should be provided in the format: mm/dd/yyyy
- Date and time fields must be two separate fields
- The time zone must be included in all time fields f.
- If the production includes imaged emails and attachments, the attachment fields must be included to preserve the parent/child relationship between an email and its attachments
- An OCRPATH field must be included to provide the file path and name of the extracted text file on the produced storage media. The text file must be named after the FIRSTBATES. Do not include the text in the .DAT file.
- For productions with native files, a LINK field must be included to provide the file path and name of the native file on the produced storage media. The native file must be named after the FIRSTBATES.
- BEGATTACH and ENDATTACH fields must be two separate fields
- A complete list of metadata fields is available in Addendum A to this document

4. Text

Text must be produced as separate document-level text files, not as fields within the .DAT file. The text files must be named per the FIRSTBATES/Image Key and the full path to the text file (OCRPATII) should be included in the .DAT file. Text files may be in either ANSI or Unicode format, however, ALL text files must be in the same format within the same production. Note that productions containing text with foreign characters must produce text files in Unicode format to preserve the foreign characters. Text files must be in a separate folder, and the number of text files per folder should not exceed 2,000 files. There should be no special characters (including commas) in the folder names. For redacted documents, provide the full text for the redacted version.

Linked Native Files

Copies of original email and native file documents/attachments must be included for all electronic productions.

- a. Native file documents must be named per the FIRSTBATES number
- b. The full path of the native file must be provided in the .DAT file for the LINK field
- The number of native files per folder should not exceed 2,000 files

II. Native File Production without Load Files

With prior approval, native files may be produced without load files. Native file productions should not be Bates numbered. Native files must be produced as they are maintained in the normal course of business and organized by custodian-named file folders. Native email files (.PST or .MBOX) must be separated by custodian.

III. Adobe PDF File Production

With prior approval, Adobe PDF files may be produced in native file format.

- 1. All PDFs must be unitized at the document level, i.e. each PDF must represent a discrete document.
- 2. PDF files should be produced in separate folders named by the custodian. The folders should not contain any special characters (including commas).
- 3. All PDF files must contain embedded text that includes all discernible words within the document, not selected text or image only. This requires all layers of the PDF to be flattened first.
- 4. If PDF files are Bates endorsed, the PDF files must be named by the Bates range.

IV. Audio Files

Audio files from telephone recording systems must be produced in a format that is playable using Microsoft Windows Media PlayerTM. Additionally, the call information (metadata) related to each audio recording MUST be provided. The metadata file must be produced in a delimited text format. Field names must be included in the first row of the text file. The metadata must include, at a minimum, the following fields:

1) Caller Name: Caller's name or account/identification number

2) Originating Number: Caller's phone number3) Called Party Name: Called party's name

4) Terminating Number: Called party's phone number

5) Date: Date of call6) Time: Time of call

7) Filename: Filename of audio file

V. Video Files

Video files must be produced in a format that is playable using Microsoft Windows Media PlayerTM.

VI. Electronic Trade and Bank Records

When producing electronic trade records, bank records, or financial statements, provide the files in one of the following formats:

- 1. MS Excel spreadsheet with header information detailing the field structure. If any special codes exist in the dataset, a separate document must be provided that details all such codes. If details of the field structure do not fit in the header, a separate document must be provided that includes such details.
- 2. Delimited text file with header information detailing the field structure. The preferred delimiter is a vertical bar "|". If any special codes exist in the dataset, a separate document must be provided that details all such codes. If details of the field structure do not fit in the header, a separate document must be provided that includes such details.

VII. Electronic Phone Records

When producing an MS Excel spreadsheet for electronic phone records, provide the files in the following format:

- 1. MS Excel spreadsheet with header information detailing the field structure. If any special codes exist in the dataset, a separate document must be provided that details all such codes. If details of the field structure do not fit in the header, a separate document must be provided that includes such details. Data must be formatted in its native format (i.e. dates in a date format, numbers in an appropriate numerical format, and numbers with leading zeroes as text).
 - a. The metadata that must be included is outlined in **Addendum B** of this document. Each field of data must be loaded into a separate column. For example, Date and Start_Time must be produced in separate columns and not combined into a single column containing both pieces of information. Any fields of data that are provided in addition to those listed in **Addendum B** must also be loaded into separate columns.

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Data Delivery Standards

VIII. Audit Workpapers

The SEC prefers for workpapers to be produced in two formats: (1) With Bates numbers in accordance with the SEC Data Delivery Standards; and (2) in native format via laptop computer, web-based viewing platform, or otherwise, allowing for viewing in the same format and organization as the firm's audit team. Prior to production of workpapers via laptop computer or web-based viewing platform, audit firms should contact the requesting SEC staff member for additional information and written agreements addressing use of software, access, and viewing protocols.

IX. Mobile Device Data

Before producing any mobile device data (including but not limited to text messages and application data) parties should reach out to the requesting SEC staff member in order to discuss the appropriate production format. Productions containing chat data from applications must be identified at the time of production and the following information must be provided to the requesting SEC staff member and the SEC Centralized Production Unit: chat application, chat data format, and how the length of a chat is determined (i.e. set duration of time, number of minutes without messages, etc.)

ADDENDUM A

The metadata of electronic document collections should be extracted and provided in a .DAT file using the field definition and formatting described below:

Field Name Sample Data Description FIRSTBATES EDC0000001 First Bates number of native file documents. LASTBATES EDC0000001 Last Bates number of native file documents.	
	ent/email
	ent/email
**The LASTBATES field should be po	opulated
for single page documents/emails.	
ATTACHRANGE EDC0000001 - EDC00000015 Bates number of the first page of	f the parent
document to the Bates number of the la	ast page of the
last attachment "child" document	
BEGATTACH EDC0000001 First Bates number of attachment range	
ENDATTACH EDC0000015 Last Bates number of attachment range	
PARENT_BATES EDC0000001 First Bates number of parent document/	
**This PARENT_BATES field should	
in each record representing an attack	hment "child"
document	
CHILD_BATES EDC0000002; EDC0000014 First Bates number of "child" attachmo	
more than one Bates number listed dep	pending on the
number of attachments	, , , , ,
**The CHILD_BATES field should be	
cach record representing a "parent" de	
CUSTODIAN Smith, John Email: Mailbox where the email reside	
Native: Name of the individual or de	pariment from
whose files the document originated	
FROM John Smith Email: Sender	
Native: Author(s) of document	
**semi-colon should be used to separat	te multiple
TO Coffman, Janice: LeeW Recipient(s)	
	4
[mailto:LeeW@MSN.com] **semi-colon should be used to separate entries	te multiple
CC Frank Thompson [mailto: Carbon copy recipient(s)	
frank_Thompson@cdt.com]	to multiple
entries	ic munipic
BCC John Cain Blind carbon copy recipient(s)	
**semi-colon should be used to separat	te multiple
entries	te manapie
SUBJECT Board Meeting Minutes Email: Subject line of the email	
Native: Title of document (if available)	
FILE_NAME BoardMeetingMinutes.docx Native: Name of the original native	file, including
extension	
DATE_SENT 10/12/2010 Email: Date the email was sent	
Native: (empty)	
TIME SENT/TIME 07:05 PM GMT Email: Time the email was sent/ Time	zone in which
ZONE the emails were standardized during co	
Native: (empty)	
**This data must be a separate field and	d cannot be
combined with the DATE_SENT field	
TIME_ZONE GMT The time zone in which the emails wer	re standardized
during conversion.	
Email: Time zone	
Native: (empty)	

LINK	D:\001\EDC0000001.msg	Hyperlink to the email or native file document **The linked file must be named per the FIRSTBATES number
MIME_TYPE	application/msword	The content type of an email or native file document as identified/extracted from the header
FILE_EXTEN	MSG	The file type extension representing the email or native file document; will vary depending on the format
AUTHOR	John Smith	Email: (empty) Native: Author of the document
LAST_AUTHOR	Jane Doe	Email: (empty) Native: Last Author of the document
DATE_CREATED	10/10/2010	Email: (empty) Native: Date the document was created
TIME_CREATED/T IME_ZONE	10:25 AM GMT	Email: (empty) Native: Time the document was created including time zone **This data must be a separate field and cannot be combined with the DATE_CREATED field
DATE_MOD	10/12/2010	Email: (empty) Native: Date the document was last modified
TIME_MOD/TIME_ ZONE	07:00 PM GMT	Email: (empty) Native: Time the document was last modified including the time zone **This data must be a separate field and cannot be combined with the DATE_MOD field
DATE_ACCESSD	10/12/2010	Email: (empty) Native: Date the document was last accessed
TIME_ACCESSD/T IME_ZONE	07:00 PM GMT	Email: (empty) Native: Time the document was last accessed including the time zone **This data must be a separate field and cannot be combined with the DATE_ACCESSD field
PRINTED_DATE	10/12/2010	Email: (empty) Native: Date the document was last printed
FILE_SIZE	5,952	Size of native file document/email in KB
PGCOUNT	1	Number of pages in native file document/email
PATH	J:\Shared\SmithJ\October Agenda.doc	Email: (empty) Native: Path where native file document was stored including original file name.
INTFILEPATH	Personal Folders\Deleted Items\Board Meeting Minutes.msg	Email: original location of email including original file name. Native: (empty)
INTMSGID	<000805c2c71bS75977050Scb 8306d1@MSN>	Email: Unique Message ID Native: (empty)

Case 1:24-cv-01858-ACR Document 26-1 Filed 02/04/25 Page 682 of 933 Data Delivery Standards

HEADER	Return-Path: <example_from@dc.edu> X-SpamCatcher-Score:1[X] Received:from[136.167.40.119] (HELO dc.edu) by fe3.dc.edu (CommuniGate Pro SMTP4.1.8) with ESMTP-TLS id 61258719 for example_to@mail.dc.edu; Mon, 23 Aug 2004 11:40:10 - 0400 Message-ID: <<4129F3CA.2020509@dc.edu> Date: Mon, 23 Aug 2005 11:40:36 -400 From: Taylor Evans <example_from@dc.edu> User-Agent:Mozilla/5.0 (Windows;U; Windows NT 5.1: en-US;rv:1.0.1) Gecko/20020823 Netscape/7.0 X-Accept-Language:en-us,en MIME-Version:1.0 To: Jon Smith <example_to@mail.dc.edu> Subject:Business Development Meeting Content-Type: text/plain;charset=us-ascii; format=flowed Content-Transfer-Encoding:7bit</example_to@mail.dc.edu></example_from@dc.edu></example_from@dc.edu>	
SHA256	AD6128C5CA40164AF71A1E FC800E12D2F195CE07BB5F8 C813B0888A2DDE6A06F	SHA-256 hash value of the document.
OCRPATH	TEXT/001/EDC0000001.txt	Path to extracted text of the native file

Sample Image Cross-Reference File:

IMG000001,,E:\001\IMG0000001.TIF,Y,,,
IMG0000002,,E:\001\IMG0000002.TIF,,,,
IMG0000003,,E:\001\IMG0000003.TIF,,,,
IMG0000004,,E:\001\IMG0000005.TIF,Y,,,
IMG0000005,,E:\001\IMG0000005.TIF,Y,,,
IMG0000006,,E:\001\IMG0000006.TIF,,,,,

ADDENDUM B

For Electronic Phone Records, include the following fields in separate columns:

For Calls:

- 1) Account Number
- 2) Connection Date Date the call was received or made
- 3) Connection Time Time call was received or made
- 4) Seizure Time Time it took for the call to be placed in seconds
- 5) Originating Number Phone that placed the call
- 6) Terminating Number Phone that received the call
- 7) Elapsed Time The length of time the call lasted, preferably in seconds
- 8) End Time The time the call ended
- 9) Number Dialed Actual number dialed
- 10) IMEI Originating Unique id to phone used to make call
- 11) IMEI Terminating-Unique id to phone used to receive call
- 12) IMSI Originating Unique id to phone used to make call
- 13) IMSI Terminating- Unique id to phone used to receive call
- 14) Call Codes Identify call direction or other routing information
- 15) Time Zone Time Zone in which the call was received or placed, if applicable

For Text messages:

- 1) Account Number
- 2) Connection Date Date the text was received or made
- 3) Connection Time Time text was received or made
- 4) Originating Number Who placed the text
- 5) Terminating Number Who received the text
- 6) IMEI Originating Unique id to phone used to make text
- 7) IMEI Terminating—Unique id to phone used to receive text
- 8) IMSI Originating Unique id to phone used to make text
- 9) IMSI Terminating- Unique id to phone used to receive text
- 10) Text Code Identify text direction, or other text routing information
- 11) Text Type Code Type of text message (sent SMS, MMS, or other)
- 12) Time Zone Time Zone in which the call was received or placed, if applicable

For Mobile Data Usage:

- 1) Account Number
- Connection Date Date the data was received or made
- 3) Connection Time Time data was received or made
- 4) Originating number Number that used data
- 5) IMEI Originating Unique id of phone that used data
- 6) IMSI Originating Unique id of phone that used data
- 7) Data or Data codes Identify data direction, or other data routing information
- 8) Time Zone Time Zone in which the call was received or placed, if applicable

SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549

Supplemental Information for Persons Requested to Supply Information Voluntarily or Directed to Supply Information Pursuant to a Commission Subpoena

A. False Statements and Documents

Section 1001 of Title 18 of the United States Code provides that fines and terms of imprisonment may be imposed upon:

[W]hoever, in any matter within the jurisdiction of the executive, legislative, or judicial branch of the Government of the United States, knowingly and willfully--

- (1) falsifies, conceals, or covers up by any trick, scheme, or device a material fact;
- (2) makes any materially false, fictitious, or fraudulent statement or representation; or
- (3) makes or uses any false writing or document knowing the same to contain any materially false, fictitious, or fraudulent statement or entry.

Section 1519 of Title 18 of the United States Code provides that fines and terms of imprisonment may be imposed upon:

Whoever knowingly alters, destroys, mutilates, conceals, covers up, falsifies, or makes a false entry in any record, document, or tangible object with the intent to impede, obstruct, or influence the investigation or proper administration of any matter within the jurisdiction of any department or agency of the United States . . ., or in relation to or contemplation of any such matter.

B. Testimony

If your testimony is taken, you should be aware of the following:

- 1. Record. Your testimony will be transcribed by a reporter. If you desire to go off the record, please indicate this to the Commission employee taking your testimony, who will determine whether to grant your request. The reporter will not go off the record at your, or your counsel's, direction.
- 2. Counsel. You have the right to be accompanied, represented and advised by counsel of your choice. Your counsel may advise you before, during and after your testimony; question you briefly at the conclusion of your testimony to clarify any of the answers you give during testimony; and make summary notes during your testimony solely for your use. If you are accompanied by counsel, you may consult privately.

If you are not accompanied by counsel, please advise the Commission employee taking your testimony if, during the testimony, you desire to be accompanied, represented and advised by counsel. Your testimony will be adjourned once to afford you the opportunity to arrange to be so accompanied, represented or advised.

You may be represented by counsel who also represents other persons involved in the Commission's investigation. This multiple representation, however, presents a potential conflict of interest if one client's interests are or may be adverse to another's. If you are represented by counsel who also represents other persons involved in the investigation, the Commission will assume that you and counsel have discussed and resolved all issues concerning possible conflicts of interest. The choice of counsel, and the responsibility for that choice, is yours.

3. Transcript Availability. Rule 6 of the Commission's Rules Relating to Investigations, 17 CFR 203.6, states:

A person who has submitted documentary evidence or testimony in a formal investigative proceeding shall be entitled, upon written request, to procure a copy of his documentary evidence or a transcript of his testimony on payment of the appropriate fees: *Provided, however*, That in a nonpublic formal investigative proceeding the Commission may for good cause deny such request. In any event, any witness, upon proper identification, shall have the right to inspect the official transcript of the witness' own testimony.

If you wish to purchase a copy of the transcript of your testimony, the reporter will provide you with a copy of the appropriate form. Persons requested to supply information voluntarily will be allowed the rights provided by this rule.

4. *Perjury.* Section 1621 of Title 18 of the United States Code provides that fines and terms of imprisonment may be imposed upon:

Whoever--

(1) having taken an oath before a competent tribunal, officer, or person, in any case in which a law of the United States authorizes an oath to be administered, that he will testify, declare,

depose, or certify truly, or that any written testimony, declaration, deposition, or certificate by him subscribed, is true, willfully and contrary to such oath states or subscribes any material matter which he does not believe to be true; or

- (2) in any declaration, certificate, verification, or statement under penalty of perjury as permitted under section 1746 of title 28, United States Code, willfully subscribes as true any material matter which he does not believe to be true.
- 5. Fifth Amendment and Voluntary Testimony. Information you give may be used against you in any federal, state, local or foreign administrative, civil or criminal proceeding brought by the Commission or any other agency.

You may refuse, in accordance with the rights guaranteed to you by the Fifth Amendment to the Constitution of the United States, to give any information that may tend to incriminate you.

If your testimony is not pursuant to subpoena, your appearance to testify is voluntary, you need not answer any question, and you may leave whenever you wish. Your cooperation is, however, appreciated.

6. Formal Order Availability. If the Commission has issued a formal order of investigation, it will be shown to you during your testimony, at your request. If you desire a copy of the formal order, please make your request in writing.

C. Submissions and Settlements

Rule 5(c) of the Commission's Rules on Informal and Other Procedures, 17 CFR 202.5(c), states:

Persons who become involved in . . . investigations may, on their own initiative, submit a written statement to the Commission setting forth their interests and position in regard to the subject matter of the investigation. Upon request, the staff, in its discretion, may advise such persons of the general nature of the investigation, including the indicated violations as they pertain to them, and the amount of time that may be available for preparing and submitting a statement prior to the presentation of a staff recommendation to the Commission for the commencement of an administrative or injunction proceeding. Submissions by interested persons should be forwarded to the appropriate Division Director or Regional Director with a copy to the staff members conducting the investigation and should be clearly referenced to the specific investigation to which they relate. In the event a recommendation for the commencement of an enforcement proceeding is presented by the staff, any submissions by interested persons will be forwarded to the Commission in conjunction with the staff memorandum.

The staff of the Commission routinely seeks to introduce submissions made pursuant to Rule 5(c) as evidence in Commission enforcement proceedings, when the staff deems appropriate.

Rule 5(f) of the Commission's Rules on Informal and Other Procedures, 17 CFR 202.5(f), states:

In the course of the Commission's investigations, civil lawsuits, and administrative proceedings, the staff, with appropriate authorization, may discuss with persons involved the disposition of such matters by consent, by settlement, or in some other manner. It is the policy of the Commission, however, that the disposition of any such matter may not, expressly or impliedly, extend to any criminal charges that have been, or may be, brought against any such person or any recommendation with respect thereto. Accordingly, any person involved in an enforcement matter before the Commission who consents, or agrees to consent, to any judgment or order does so solely for the purpose of resolving the claims against him in that investigative, civil, or administrative matter and not for the purpose of resolving any criminal charges that have been, or might be, brought against him. This policy reflects the fact that neither the Commission nor its staff has the authority or responsibility for instituting, conducting, settling, or otherwise disposing of criminal proceedings. That authority and responsibility are vested in the Attorney General and representatives of the Department of Justice.

D. Freedom of Information Act

The Freedom of Information Act, 5 U.S.C. 552 (the "FOIA"), generally provides for disclosure of information to the public. Rule 83 of the Commission's Rules on Information and Requests, 17 CFR 200.83, provides a procedure by which a person can make a written request that information submitted to the Commission not be disclosed under the FOIA. That rule states that no determination as to the validity of such a request will be made until a request for disclosure of the information under the FOIA is received. Accordingly, no response to a request that information not be disclosed under the FOIA is necessary or will be given until a request for disclosure under the FOIA is received. If you desire an acknowledgment of receipt of your written request that information not be disclosed under the FOIA, please provide a duplicate request, together with a stamped, self-addressed envelope.

E. Authority for Solicitation of Information

Persons Directed to Supply Information Pursuant to Subpoena. The authority for requiring production of information is set forth in the subpoena. Disclosure of the information to the Commission is mandatory, subject to the valid assertion of any legal right or privilege you might have.

Persons Requested to Supply Information Voluntarily. One or more of the following provisions authorizes the Commission to solicit the information requested: Sections 19 and/or 20 of the Securities Act of 1933; Section 21 of the Securities Exchange Act of 1934; Section 321 of the Trust Indenture Act of 1939; Section 42 of the Investment Company Act of 1940; Section 209 of the Investment Advisers Act of 1940; and 17 CFR 202.5. Disclosure of the requested information to the Commission is voluntary on your part.

F. Effect of Not Supplying Information

Persons Directed to Supply Information Pursuant to Subpoena. If you fail to comply with the subpoena, the Commission may seek a court order requiring you to do so. If such an order is obtained and you thereafter fail to supply the information, you may be subject to civil and/or criminal sanctions for contempt of court. In addition, Section 21(c) of the Securities Exchange Act of 1934, Section 42(c) of the Investment Company Act of 1940, and Section 209(c) of the Investment Advisers Act of 1940 provide that fines and terms of imprisonment may be imposed upon any person who shall, without just cause, fail or refuse to attend and testify or to answer any lawful inquiry, or to produce books, papers, correspondence, memoranda, and other records in compliance with the subpoena.

Persons Requested to Supply Information Voluntarily. There are no direct sanctions and thus no direct effects for failing to provide all or any part of the requested information.

G. Principal Uses of Information

The Commission's principal purpose in soliciting the information is to gather facts in order to determine whether any person has violated, is violating, or is about to violate any provision of the federal securities laws or rules for which the Commission has enforcement authority, such as rules of securities exchanges and the rules of the Municipal Securities Rulemaking Board. Facts developed may, however, constitute violations of other laws or rules. Information provided may be used in Commission and other agency enforcement proceedings. Unless the Commission or its staff explicitly agrees to the contrary in writing, you should not assume that the Commission or its staff acquiesces in, accedes to, or concurs or agrees with, any position, condition, request, reservation of right, understanding, or any other statement that purports, or may be deemed, to be or to reflect a limitation upon the Commission's receipt, use, disposition, transfer, or retention, in accordance with applicable law, of information provided.

H. Routine Uses of Information

The Commission often makes its files available to other governmental agencies, particularly United States Attorneys and state prosecutors. There is a likelihood that information supplied by you will be made available to such agencies where appropriate. Whether or not the Commission makes its files available to other governmental agencies is, in general, a confidential matter between the Commission and such other governmental agencies.

Set forth below is a list of the routine uses which may be made of the information furnished.

- 1. To appropriate agencies, entities, and persons when (1) the SEC suspects or has confirmed that there has been a breach of the system of records, (2) the SEC has determined that as a result of the suspected or confirmed breach there is a risk of harm to individuals, the SEC (including its information systems, programs, and operations), the Federal Government, or national security; and (3) the disclosure made to such agencies, entities, and persons is reasonably necessary to assist in connection with the SEC's efforts to respond to the suspected or confirmed breach or to prevent, minimize, or remedy such harm.
- 2. To other Federal, state, local, or foreign law enforcement agencies; securities self-regulatory organizations; and foreign financial regulatory authorities to assist in or coordinate regulatory or law enforcement activities with the SEC.
- 3. To national securities exchanges and national securities associations that are registered with the SEC, the Municipal Securities Rulemaking Board; the Securities Investor Protection Corporation; the Public Company Accounting Oversight Board; the Federal banking authorities, including, but not limited to, the Board of Governors of the Federal Reserve System, the Comptroller of the Currency, and the Federal Deposit Insurance Corporation; state securities regulatory agencies or organizations; or regulatory authorities of a foreign government in connection with their regulatory or enforcement responsibilities.
- 4. By SEC personnel for purposes of investigating possible violations of, or to conduct investigations authorized by, the Federal securities laws.
- 5. In any proceeding where the Federal securities laws are in issue or in which the Commission, or past or present members of its staff, is a party or otherwise involved in an official capacity.
- 6. In connection with proceedings by the Commission pursuant to Rule 102(e) of its Rules of Practice, 17 CFR 201.102(e).

- 7. To a bar association, state accountancy board, or other Federal, state, local, or foreign licensing or oversight authority; or professional association or self-regulatory authority to the extent that it performs similar functions (including the Public Company Accounting Oversight Board) for investigations or possible disciplinary action.
- 8. To a Federal, state, local, tribal, foreign, or international agency, if necessary to obtain information relevant to the SEC's decision concerning the hiring or retention of an employee; the issuance of a security clearance; the letting of a contract; or the issuance of a license, grant, or other benefit.
- 9. To a Federal, state, local, tribal, foreign, or international agency in response to its request for information concerning the hiring or retention of an employee; the issuance of a security clearance; the reporting of an investigation of an employee; the letting of a contract; or the issuance of a license, grant, or other benefit by the requesting agency, to the extent that the information is relevant and necessary to the requesting agency's decision on the matter.
- 10. To produce summary descriptive statistics and analytical studies, as a data source for management information, in support of the function for which the records are collected and maintained or for related personnel management functions or manpower studies; may also be used to respond to general requests for statistical information (without personal identification of individuals) under the Freedom of Information Act.
- 11. To any trustee, receiver, master, special counsel, or other individual or entity that is appointed by a court of competent jurisdiction, or as a result of an agreement between the parties in connection with litigation or administrative proceedings involving allegations of violations of the Federal securities laws (as defined in section 3(a)(47) of the Securities Exchange Act of 1934, 15 U.S.C. 78c(a)(47)) or pursuant to the Commission's Rules of Practice, 17 CFR 201.100 through 900 or the Commission's Rules of Fair Fund and Disgorgement Plans, 17 CFR 201.1100 through 1106, or otherwise, where such trustee, receiver, master, special counsel, or other individual or entity is specifically designated to perform particular functions with respect to, or as a result of, the pending action or proceeding or in connection with the administration and enforcement by the Commission of the Federal securities laws or the Commission's Rules of Practice or the Rules of Fair Fund and Disgorgement Plans.
- 12. To any persons during the course of any inquiry, examination, or investigation conducted by the SEC's staff, or in connection with civil litigation, if the staff has reason to believe that the person to whom the record is disclosed may have further information about the matters related therein, and those matters appeared to be relevant at the time to the subject matter of the inquiry.
- 13. To interns, grantees, experts, contractors, and others who have been engaged by the Commission to assist in the performance of a service related to this system of records and who need access to the records for the purpose of assisting the Commission in the efficient administration of its programs, including by performing clerical, stenographic, or data analysis functions, or by reproduction of records by electronic or other means. Recipients of these records shall be required to comply with the requirements of the Privacy Act of 1974, as amended, 5 U.S.C. 552a.
- 14. In reports published by the Commission pursuant to authority granted in the Federal securities laws (as such term is defined in section 3(a)(47) of the Securities Exchange Act of 1934, 15 U.S.C. 78c(a)(47)), which authority shall include, but not be limited to, section 21(a) of the Securities Exchange Act of 1934, 15 U.S.C. 78u(a)).
- 15. To members of advisory committees that are created by the Commission or by Congress to render advice and recommendations to the Commission or to Congress, to be used solely in connection with their official designated functions.
- 16. To any person who is or has agreed to be subject to the Commission's Rules of Conduct, 17 CFR 200.735-1 through 200.735-18, and who assists in the investigation by the Commission of possible violations of the Federal securities laws (as such term is defined in section 3(a)(47) of the Securities Exchange Act of 1934, 15 U.S.C. 78c(a)(47)), in the preparation or conduct of enforcement actions brought by the Commission for such violations, or otherwise in connection with the Commission's enforcement or regulatory functions under the Federal securities laws.
- 17. To a Congressional office from the record of an individual in response to an inquiry from the Congressional office made at the request of that individual.
- 18. To members of Congress, the press, and the public in response to inquiries relating to particular Registrants and their activities, and other matters under the Commission's jurisdiction.
- 19. To prepare and publish information relating to violations of the Federal securities laws as provided in 15 U.S.C. 78c(a)(47)), as amended.
- 20. To respond to subpoenas in any litigation or other proceeding.
- 21. To a trustee in bankruptcy.
- 22. To any governmental agency, governmental or private collection agent, consumer reporting agency or commercial reporting agency, governmental or private employer of a debtor, or any other person, for collection,

including collection by administrative offset, Federal salary offset, tax refund offset, or administrative wage garnishment, of amounts owed as a result of Commission civil or administrative proceedings.

23. To another Federal agency or Federal entity, when the SEC determines that information from this system of records is reasonably necessary to assist the recipient agency or entity in (1) responding to a suspected or confirmed breach or (2) preventing, minimizing, or remedying the risk of harm to individuals, the recipient agency or entity (including its information systems, programs, and operations), the Federal Government, or national security, resulting from a suspected or confirmed breach.

* * * * *

Small Business Owners: The SEC always welcomes comments on how it can better assist small businesses. If you would like more information, or have questions or comments about federal securities regulations as they affect small businesses, please contact the Office of Small Business Policy, in the SEC's Division of Corporation Finance, at 202-551-3460. If you would prefer to comment to someone outside of the SEC, you can contact the Small Business Regulatory Enforcement Ombudsman at http://www.sba.gov/ombudsman or toll free at 888-REG-FAIR. The Ombudsman's office receives comments from small businesses and annually evaluates federal agency enforcement activities for their responsiveness to the special needs of small business.



UNITED STATES SECURITIES AND EXCHANGE COMMISSION

100 PEARL STREET, SUITE 20-100 NEW YORK, NY 10004-2616

DIVISION OF ENFORCEMENT

February 29, 2024

VIA SECURE EMAIL

Prometheum Ember Capital, LLC c/o Martin H. Kaplan Gusrae Kaplan Nusbaum PLLC 120 Wall Street, Floor 25 New York, NY 10005 mkaplan@gusraekaplan.com

Re: C-08950

Dear Mr. Kaplan:

The enclosed subpoena has been issued pursuant to a formal order entered by the United States Securities and Exchange Commission. Pursuant to Rule 8 of the United States Securities and Exchange Commission's Rules Relating to Investigations, 17 C.F.R. § 203.8, I have enclosed a subpoena for documents issued to Prometheum Ember Capital, LLC ("ProCap") in connection with the above-referenced investigation.

The enclosed subpoena requires ProCap to produce documents to the SEC by March 14, 2024 to:

ENF-CPU U.S. Securities and Exchange Commission 14420 Albemarle Point Place, Suite 102 Chantilly, VA 20151-1750

For smaller electronic productions under 10MB in size, the materials may be emailed to the following email address: ENF-CPU@sec.gov.

	<u>Pl</u> ease also provide a dupli	cate copy of any	document production	on cover letters to me at
b)(6);	(a)sec.gov, (b)(6); (b)(7)(C)	at (b)(6); (b)(7)(C)	sec.gov (b)(6); (b)(7)(C)	at
b)(7)(C) (b)(6); (b)	7)(C) <u>(i)sec.gov</u> , and (b)(6); (b)(7			onally, please include the
	natter number and the name			• •

Please carefully read the subpoena attachment, which contains, among other things, important instructions related to the manner of producing documents. In particular, if ProCap prefers to send us copies of original documents, the staff requests that you scan and produce hard copy documents, as well as electronic documents, in an electronic format consistent with the SEC Data Delivery Standards attached hereto. All electronic documents responsive to the subpoena, including all metadata, should also be produced in their native software format. If you have any questions concerning the production of documents in an electronic format, please contact me as soon as possible and in any event before producing documents. For security reasons, we strongly encourage the encryption of sensitive documents before production.

When producing the records, please consecutively number and mark each document produced with a symbol that identifies it as being produced by ProCap and provide an index which briefly identifies the documents produced.

In your cover letter(s) accompanying the production of responsive documents, please enclose a list briefly describing each item you send. The list should identify the paragraph(s) in the subpoena attachment to which each item responds. Please also state in the cover letter(s) whether you believe ProCap has met the obligations of the subpoena by searching carefully and thoroughly for everything called for by the subpoena and sending it all to us.

A copy of the subpoena should be included with the documents that are produced. Correspondence should reference case number and requesting SEC staff member.

Passwords for documents, files, compressed archives, and encrypted media should be provided separately either via email addressed to ENF-CPU@sec.gov, or in a separate cover letter mailed separately from the data. Password correspondence should reference case number and requesting SEC staff member.

In addition, for any documents that qualify as records of regularly conducted activities under Federal Rule of Evidence 902(11), please have the appropriate representative(s) of ProCap complete a business records certification (a sample of which is enclosed) and return it with the document production. Execution of this certification may allow the Commission to introduce the documents provided by ProCap in any subsequent judicial proceeding, without requiring the testimony of a records custodian.

Enclosed is a copy of the Commission's Form 1662, entitled "Supplemental Information for Persons Requested to Supply Information Voluntarily or Directed to Supply Information Pursuant to a Commission Subpoena." This form explains how we may use the information which ProCap provides to the Commission and has other important information.

This investigation is a non-public, fact-finding inquiry. We are trying to determine whether there have been any violations of the federal securities laws. The investigation does not mean that we have concluded that anyone has violated the law. Also, the investigation does not mean that we have a negative opinion of any person, entity, or security.

If you have any questions or would like to discuss this matter, you may contact me at (b)(6); (b)(7)(C)

Sincerely,	
(b)(6); (b)(7)(C)	
(b)(6);	

Enclosures: Subpoena and Attachment

Business Records Certification SEC Data Delivery Standards

SEC Form 1662



SUBPOENA

UNITED STATES OF AMERICA SECURITIES AND EXCHANGE COMMISSION

C-08950

To: Prometheum Ember Capital, LLC c/o Martin H. Kaplan
Gusrae Kaplan Nusbaum PLLC
120 Wall Street, Floor 25
New York, NY 10005

YOU MUST PRODUCE everything specified in the Attachment to this subpoena to officers of the Securities and Exchange Commission, at the place, date and time specified below:

ENF-CPU, U.S. Securities and Exchange Commission, 14420 Albemarle Point Place, Suite 102 Chantilly, VA 20151-1750, no later than March 14, 2024.

YOU MUST TESTIFY before officers of the Securities and Exchange Commission, at the place, date and time specified below:

FEDERAL LAW REQUIRES YOU TO COMPLY WITH THIS SUBPOENA.

If you do not comply with this subpoena, the SEC may bring an action in Federal Court to enforce this subpoena. Failure to comply with a court order enforcing this subpoena may result in the court imposing a fine, imprisonment, or both.

Date:

February 29, 2024

By: (b)(6); (b)(7)(C)

U.S. Securities and Exchange Commission New York Regional Office 100 Pearl Street, Suite 20-100 New York, NY 10004-2616

I am an officer of the U.S. Securities and Exchange Commission authorized to issue subpoenas in this matter. The Securities and Exchange Commission has issued a formal order authorizing this investigation under Section 20(a) of the Securities Act of 1933.

NOTICE TO WITNESS: If you claim a witness fee or mileage, submit this subpoena with the claim voucher.

SUBPOENA ATTACHMENT FOR PROMETHEUM EMBER CAPITAL, LLC $\underline{\text{C-08950}}$

February 29, 2024

Definitions

As used in this subpoena, the words and phrases listed below shall have the following meanings:

- 1. "ProCap" means the entity doing business under the name "Prometheum Ember Capital, LLC" including parents, subsidiaries, affiliates, predecessors, successors, officers, directors, employees, agents, general partners, limited partners, partnerships and aliases, code names, or trade or business names used by any of the foregoing.
- 2. "Communication" means any correspondence, contact, discussion, e-mail, instant message, or any other kind of oral or written exchange or transmission of information (in the form of facts, ideas, inquiries, or otherwise), including but not limited to those made on Social Media Services, and any response thereto between two or more Persons or entities, including, without limitation, all telephone conversations, face-to-face meetings or conversations, internal or external discussions, or exchanges of a Document or Documents.
- 3. "Concerning" means directly or indirectly, in whole or in part, describing, constituting, evidencing, recording, evaluating, substantiating, concerning, referring to, alluding to, in connection with, commenting on, relating to, regarding, discussing, showing, analyzing or reflecting.
- 4. "ConsenSys" means the entity or business doing business under the name ConsenSys Software, Inc., including parents, subsidiaries, affiliates, predecessors, successors, officers, directors, employees, agents, general partners, limited partners, partnerships and aliases, owners, code names, or trade or business names used by any of the foregoing.
- 5. "Document" shall include, but is not limited to, any written, printed, or typed matter including, but not limited to all drafts and copies bearing notations or marks not found in the original, letters and correspondence, interoffice communications, slips, tickets, records, worksheets, financial records, accounting documents, bookkeeping documents, memoranda, reports, manuals, telephone logs, facsimiles, messages of any type, telephone messages, text messages, voice mails, tape recordings, notices, instructions, minutes, summaries, notes of meetings, file folder markings, and any other organizational indicia, purchase orders, information recorded by photographic process, including microfilm and microfiche, computer printouts, spreadsheets, and other electronically stored information, including writings, drawings, graphs, charts, photographs, sound recordings, images, and other data or data compilations that are stored in any medium from which information can be retrieved, obtained, manipulated, or translated.

- 6. "ETH" means Ether or the native crypto asset for the Ethereum blockchain and network.
- 7. "Ethereum Developers" refers to any anyone developing on the Ethereum blockchain and network, including, but not limited to, Ethereum protocol developers also known as Ethereum core developers.
- 8. The "Ethereum Foundation" means the entity or business doing business under the name "Ethereum Foundation," including, but not limited to, ethereum.org and parents, subsidiaries, affiliates, predecessors, successors, officers, directors, employees, agents, general partners, limited partners, partnerships and aliases, owners, code names, or trade or business names used by any of the foregoing.
- 9. "The Merge" or "Ethereum 2.0" means the transition by the Ethereum blockchain of its consensus mechanism from proof-of-work to proof-of-stake.
- 10. The term "You" and "Your" means the Person to whom or entity to which this subpoena was issued.
- 11. To the extent necessary to bring within the scope of this this subpoena any information or Documents that might otherwise be construed to be outside its scope:
 - a. the word "or" means "and/or";
 - b. the word "and" means "and/or";
 - c. the functional words "each," "every" "any" and "all" shall each be deemed to include each of the other functional words;
 - d. the masculine gender includes the female gender and the female gender includes the masculine gender; and
 - e. the singular includes the plural and the plural includes the singular.

Instructions

- 1. Unless otherwise specified, this subpoena calls for production of the original Documents and all copies and drafts of same. Documents responsive to this subpoena may be in electronic or paper form. Electronic Documents such as email should be produced in accordance with the attached Document entitled SEC Data Delivery Standards. All responsive electronic Documents, including all metadata, should also be produced in their native software format.
- 2. For Documents in paper format, you may send the originals, or, if you prefer, you may send copies of the originals. The Commission cannot reimburse you for the copying costs. If you are sending copies, the staff requests that you scan (rather than photocopy) hard copy Documents and produce them in an electronic format consistent with the SEC Data Delivery Standards. Alternatively, you may send us photocopies of the Documents in paper format. If you choose to send copies, you <u>must</u> secure and retain the originals and store them in a safe place. The staff may later request or require that you produce the originals.

- 3. Whether you scan or photocopy Documents, the copies must be identical to the originals, including even faint marks or print. Also, please note that if copies of a Document differ in any way, they are considered separate Documents and you must send each one. For example, if you have two copies of the same letter, but only one of them has handwritten notes on it, you must send both the clean copy and the one with notes.
- 4. In producing a photocopy of an original Document that contains post-it(s), notation flag(s), or other removable markings or attachments which may conceal all or a portion of the markings contained in the original Document, photocopies of the original Document both with and without the relevant post-it(s), notation flag(s), or removable markings or attachments should be produced.
- 5. Documents should be produced as they are kept in the ordinary course of business or be organized and labeled to correspond with the categories in this request. In that regard, Documents should be produced in a unitized manner, i.e., delineated with staples or paper clips to identify the Document boundaries.
- 6. Documents should be labeled with sequential numbering (bates-stamped).
- 7. The scope of any given request should not be limited or narrowed on the basis that it calls for Documents that are responsive to another request.
- 8. This subpoena covers all Documents in or subject to your possession, custody or control, including all Documents that are not in your immediate possession but that you have the effective ability to obtain, that are responsive, in whole or in part, to any of the individual requests set forth below. If, for any reason including a claim of attorney-client privilege you do not produce something called for by the request, you should submit a list of what you are not producing. The list should describe each item separately, noting:
 - a. its author(s);
 - b. its date:
 - c. its subject matter;
 - d. the name of the Person who has the item now, or the last Person known to have it;
 - e. the names of everyone who ever had the item or a copy of it, and the names of everyone who was told the item's contents;
 - f. the basis upon which you are not producing the responsive Document;
 - g. the specific request in the subpoena to which the Document relates;
 - h. the attorney(s) and the client(s) involved; and
 - i. in the case of the work product doctrine, the litigation for which the Document was prepared in anticipation.
- 9. If Documents responsive to this subpoena no longer exist because they have been lost, discarded, or otherwise destroyed, you should identify such Documents and give the date on which they were lost, discarded, or destroyed.

Documents to be Produced

- 1. Documents and Communications Concerning any legal analysis of ETH, the Merge, or Ethereum 2.0, including, but not limited to, Communications with the Ethereum Foundation, ConsenSys, or Ethereum Developers. Please note that the above Instructions discuss the procedures for how to handle privileged documents.
- 2. Documents upon which You relied in any analysis responsive to Request No. 1 above.
- 3. Communications with any regulator or government agency in the U.S. or a foreign country Concerning ETH, the Merge, or Ethereum 2.0, including, but not limited to, Communications by attorneys or agents representing you.

DECLARATION OF [Insert Name] CERTIFYING RECORDS OF REGULARLY CONDUCTED BUSINESS ACTIVITY

I, the undersigned, [insert name], pursuant to 28 U.S.C. § 1746, declare that:

- 1. I am employed by [insert name of company] as [insert position] and by reason of my position am authorized and qualified to make this declaration. [if possible supply additional information as to how person is qualified to make declaration, e.g., I am custodian of records, I am familiar with the company's recordkeeping practices or systems, etc.]
- 2. I further certify that the documents [attached hereto or submitted herewith] and stamped [insert bates range] are true copies of records that were:
 - (a) made at or near the time of the occurrence of the matters set forth therein, by, or from information transmitted by, a person with knowledge of those matters;
 - (b) kept in the course of regularly conducted business activity; and
 - (c) made by the regularly conducted business activity as a regular practice.

I declare under penalty of perjury that the foregoing is true and correct. Executed on [date].

[Name]	



U.S. Securities and Exchange Commission

Data Delivery Standards

This document describes the technical requirements for paper and electronic document productions to the U.S. Securities and Exchange Commission (SEC). **Any questions or proposed file formats other than those described below must be discussed with the legal and technical staff of the SEC Division of Enforcement prior to submission. **

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General Instructions

The current mailing address for all physical productions sent to the SEC is:

ENF-CPU (U.S. Securities & Exchange Commission), 14420 Albemarle Point Place, Suite 102, Chantilly, VA 20151-1750

Electronic files must be produced in their native format, i.e. the format in which they are ordinarily used and maintained during the normal course of business. For example, an MS Excel file must be produced as an MS Excel file rather than an image of a spreadsheet. (Note: An Adobe PDF file is not considered a native file unless the document was initially created as a PDF.)

In the event produced files require the use of proprietary software not commonly found in the workplace, the SEC will explore other format options with the producing party.

The proposed use of file de-duplication methodologies or computer-assisted review or technology-assisted review (TAR) during the processing of documents must be discussed with and approved by the legal and technical staff of the Division of Enforcement (ENF). If your production will be de-duplicated it is vital that you 1) preserve any unique metadata associated with the duplicate files, for example, custodian name and file location and, 2) make that unique metadata part of your production to the SEC.

General requirements for ALL document productions are:

- 1. A cover letter must be included with each production and should include the following information:
 - a. Case number, ease name and requesting SEC staff member name
 - b. A list of each piece of media included in the production with its unique production volume number
 - c. A list of custodians, identifying the Bates range for each custodian
 - d. A list of redacted documents and the redaction reason
 - c. The time zone in which the emails were standardized during conversion
 - f. Whether the production contains native files produced from Mac operating system environments
- Data can be produced on CD, DVD, thumb drive, etc., using the media requiring the least number of deliverables and labeled with the following:
 - a. Case number
 - b. Production date
 - c. Producing party
 - d. Bates range (if applicable)
- All submissions must be organized by custodian unless otherwise instructed.
- 4. All document family groups, i.e. email attachments, embedded files, etc., should be produced together and children files should follow parent files sequentially in the Bates numbering.
- 5. All load-ready collections should include only one data load file and one image pointer file.
- 6. All load-ready text must be produced as separate document-level text files.
- 7. All load-ready collections should account for custodians in the custodian field.
- All load-ready collections must provide the extracted contents of any container files to ensure all relevant files are produced as separate records.
- 9. Audio files should be separated from data files if both are included in the production.
- 10. Only alphanumeric characters and the underscore character are permitted in file names and folder names. Special characters are not permitted.
- 11. All electronic productions submitted on media must be produced using industry standard self-extracting encryption software.
- 12. The SEC uses 7zip to access compressed files. Note that the SEC cannot accept files that use AES-256 Jpeg or pkAES-256-Cert Deflate compression methods, even if the files are created with 7zip. If you have any questions or need additional information, please reach out to the requesting SEC staff member.
- 13. Electronic productions of 30 GB or less are strongly encouraged to be submitted via Secure File Transfer. All Secure File Transfers should be sent to the SEC Centralized Production Unit (ENF-CPU@sec.gov) with a CC to the requesting SEC staff member. If you do not have your own Secure File Transfer application, you may reach out to the requesting SEC staff member for a link to the SEC system in order to upload your production. If using the SEC Secure File Transfer system, you will NOT be able to CC individuals outside the SEC on your upload transmission. Note that the SEC cannot accept productions made using file sharing sites such as Google Drive or Microsoft Office 365.
- 14. Productions containing BSA or SAR material must be encrypted. Secure File Transfer applications may be used to produce BSA or SAR material. BSA or SAR material should be segregated and appropriately marked as BSA or SAR, or should be produced separately from other case related records.
- 15. Passwords for electronic documents, files, compressed archives and encrypted media must be provided separately either via email or in a cover letter apart from the media.
- 16. All electronic productions should be produced free of computer viruses.
- 17. Before producing forensically collected images, parties should reach out to the requesting SEC staff member in order to discuss appropriate handling.
- 18. Before producing unique data sets (large sets of relational data, website reconstruction, chat room data, etc.), parties should reach out to the requesting SEC staff member in order to discuss an appropriate production format.
- Additional technical descriptions can be found in the addendum to this document.

Please note that productions sent to the SEC via United States Postal Service are subject to Mail Irradiation, and as a result electronic productions may be damaged.

Delivery Formats

Imaged Productions

The SEC prefers that all scanned paper and electronic file collections be produced in a structured format including industry standard load files, Bates numbered image files, native files and searchable document-level text files. Bates numbers should not contain spaces. Hyphens (-) and underscores (-) are acceptable.

1. Images

- Black and white images must be 300 DPI Group IV single-page TIFF files
- b. Color images must be produced in JPEG format
- File names cannot contain embedded spaces or special characters (including the comma)
- d. Folder names cannot contain embedded spaces or special characters (including the comma)
- e. All image files must have a unique file name, i.e. Bates number
- f. Images must be endorsed with sequential Bates numbers in the lower right corner of each image
- The number of image files per folder should not exceed 2,000 files g.
- h. Excel spreadsheets should have a placeholder image named by the Bates number of the file
- AUTOCAD/photograph files should be produced as a single page JPEG file

2. Image Cross-Reference File

The image cross-reference file (LOG or .OPT) links the images to the database records. It should be a comma-delimited file consisting of seven fields per line with a line in the cross-reference file for every image in the database with the following format:

ImageID, VolumeLabel, ImageFilePath, DocumentBreak, FolderBreak, BoxBreak, PageCount

3. Data File

The data file (.DAT) contains all of the fielded information that will be loaded into the database.

- The first line of the .DAT file must be a header row identifying the field names
- The .DAT file must use the following *Concordance*® default delimiters:

Comma ¶ ASCII character (020)

Quote b ASCII character (254)

- c. If the .DAT file is produced in Unicode format it must contain the byte order marker
- d. Date fields should be provided in the format: mm/dd/yyyy
- Date and time fields must be two separate fields
- The time zone must be included in all time fields f.
- If the production includes imaged emails and attachments, the attachment fields must be included to preserve the parent/child relationship between an email and its attachments
- An OCRPATH field must be included to provide the file path and name of the extracted text file on the produced storage media. The text file must be named after the FIRSTBATES. Do not include the text in the .DAT file.
- For productions with native files, a LINK field must be included to provide the file path and name of the native file on the produced storage media. The native file must be named after the FIRSTBATES.
- BEGATTACH and ENDATTACH fields must be two separate fields
- A complete list of metadata fields is available in Addendum A to this document

4. Text

Text must be produced as separate document-level text files, not as fields within the .DAT file. The text files must be named per the FIRSTBATES/Image Key and the full path to the text file (OCRPATII) should be included in the .DAT file. Text files may be in either ANSI or Unicode format, however, ALL text files must be in the same format within the same production. Note that productions containing text with foreign characters must produce text files in Unicode format to preserve the foreign characters. Text files must be in a separate folder, and the number of text files per folder should not exceed 2,000 files. There should be no special characters (including commas) in the folder names. For redacted documents, provide the full text for the redacted version.

Linked Native Files

Copies of original email and native file documents/attachments must be included for all electronic productions.

- a. Native file documents must be named per the FIRSTBATES number
- b. The full path of the native file must be provided in the .DAT file for the LINK field
- The number of native files per folder should not exceed 2,000 files

II. Native File Production without Load Files

With prior approval, native files may be produced without load files. Native file productions should not be Bates numbered. Native files must be produced as they are maintained in the normal course of business and organized by custodian-named file folders. Native email files (.PST or .MBOX) must be separated by custodian.

III. Adobe PDF File Production

With prior approval, Adobe PDF files may be produced in native file format.

- 1. All PDFs must be unitized at the document level, i.e. each PDF must represent a discrete document.
- 2. PDF files should be produced in separate folders named by the custodian. The folders should not contain any special characters (including commas).
- 3. All PDF files must contain embedded text that includes all discernible words within the document, not selected text or image only. This requires all layers of the PDF to be flattened first.
- 4. If PDF files are Bates endorsed, the PDF files must be named by the Bates range.

IV. Audio Files

Audio files from telephone recording systems must be produced in a format that is playable using Microsoft Windows Media PlayerTM. Additionally, the call information (metadata) related to each audio recording MUST be provided. The metadata file must be produced in a delimited text format. Field names must be included in the first row of the text file. The metadata must include, at a minimum, the following fields:

1) Caller Name: Caller's name or account/identification number

2) Originating Number: Caller's phone number3) Called Party Name: Called party's name

4) Terminating Number: Called party's phone number

5) Date: Date of call
6) Time: Time of call

7) Filename: Filename of audio file

V. Video Files

Video files must be produced in a format that is playable using Microsoft Windows Media PlayerTM.

VI. Electronic Trade and Bank Records

When producing electronic trade records, bank records, or financial statements, provide the files in one of the following formats:

- 1. MS Excel spreadsheet with header information detailing the field structure. If any special codes exist in the dataset, a separate document must be provided that details all such codes. If details of the field structure do not fit in the header, a separate document must be provided that includes such details.
- 2. Delimited text file with header information detailing the field structure. The preferred delimiter is a vertical bar "|". If any special codes exist in the dataset, a separate document must be provided that details all such codes. If details of the field structure do not fit in the header, a separate document must be provided that includes such details.

VII. Electronic Phone Records

When producing an MS Excel spreadsheet for electronic phone records, provide the files in the following format:

- 1. MS Excel spreadsheet with header information detailing the field structure. If any special codes exist in the dataset, a separate document must be provided that details all such codes. If details of the field structure do not fit in the header, a separate document must be provided that includes such details. Data must be formatted in its native format (i.e. dates in a date format, numbers in an appropriate numerical format, and numbers with leading zeroes as text).
 - a. The metadata that must be included is outlined in **Addendum B** of this document. Each field of data must be loaded into a separate column. For example, Date and Start_Time must be produced in separate columns and not combined into a single column containing both pieces of information. Any fields of data that are provided in addition to those listed in **Addendum B** must also be loaded into separate columns.

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Data Delivery Standards

VIII. Audit Workpapers

The SEC prefers for workpapers to be produced in two formats: (1) With Bates numbers in accordance with the SEC Data Delivery Standards; and (2) in native format via laptop computer, web-based viewing platform, or otherwise, allowing for viewing in the same format and organization as the firm's audit team. Prior to production of workpapers via laptop computer or web-based viewing platform, audit firms should contact the requesting SEC staff member for additional information and written agreements addressing use of software, access, and viewing protocols.

IX. Mobile Device Data

Before producing any mobile device data (including but not limited to text messages and application data) parties should reach out to the requesting SEC staff member in order to discuss the appropriate production format. Productions containing chat data from applications must be identified at the time of production and the following information must be provided to the requesting SEC staff member and the SEC Centralized Production Unit: chat application, chat data format, and how the length of a chat is determined (i.e. set duration of time, number of minutes without messages, etc.)

ADDENDUM A

The metadata of electronic document collections should be extracted and provided in a .DAT file using the field definition and formatting described below:

Field Name Sample Data Description FIRSTBATES EDC0000001 First Bates number of native file documents. LASTBATES EDC0000001 Last Bates number of native file documents.	
	ent/email
	ent/email
**The LASTBATES field should be po	opulated
for single page documents/emails.	
ATTACHRANGE EDC0000001 - EDC0000015 Bates number of the first page of	f the parent
document to the Bates number of the la	ast page of the
last attachment "child" document	
BEGATTACH EDC0000001 First Bates number of attachment range	
ENDATTACH EDC0000015 Last Bates number of attachment range	
PARENT_BATES EDC0000001 First Bates number of parent document/	
**This PARENT_BATES field should	
in each record representing an attack	hment "child"
document	
CHILD_BATES EDC0000002; EDC0000014 First Bates number of "child" attachmo	
more than one Bates number listed dep	pending on the
number of attachments	, , , , ,
**The CHILD_BATES field should be	
cach record representing a "parent" de	
CUSTODIAN Smith, John Email: Mailbox where the email reside	
Native: Name of the individual or de	pariment from
whose files the document originated	
FROM John Smith Email: Sender	
Native: Author(s) of document	
**semi-colon should be used to separat	te multiple
TO Coffman, Janice: LeeW Recipient(s)	
	4
[mailto:LeeW@MSN.com] **semi-colon should be used to separate entries	te multiple
CC Frank Thompson [mailto: Carbon copy recipient(s)	
frank_Thompson@cdt.com]	to multiple
entries	ic munipic
BCC John Cain Blind carbon copy recipient(s)	
**semi-colon should be used to separat	te multiple
entries	te manapie
SUBJECT Board Meeting Minutes Email: Subject line of the email	
Native: Title of document (if available)	
FILE_NAME BoardMeetingMinutes.docx Native: Name of the original native	file, including
extension	
DATE_SENT 10/12/2010 Email: Date the email was sent	
Native: (empty)	
TIME SENT/TIME 07:05 PM GMT Email: Time the email was sent/ Time	zone in which
ZONE the emails were standardized during co	
Native: (empty)	
**This data must be a separate field and	d cannot be
combined with the DATE_SENT field	
TIME_ZONE GMT The time zone in which the emails wer	re standardized
during conversion.	
Email: Time zone	
Native: (empty)	

LINK	D:\001\EDC0000001.msg	Hyperlink to the email or native file document **The linked file must be named per the FIRSTBATES number
MIME_TYPE	application/msword	The content type of an email or native file document as identified/extracted from the header
FILE_EXTEN	MSG	The file type extension representing the email or native file document; will vary depending on the format
AUTHOR	John Smith	Email: (empty) Native: Author of the document
LAST_AUTHOR	Jane Doe	Email: (empty) Native: Last Author of the document
DATE_CREATED	10/10/2010	Email: (empty) Native: Date the document was created
TIME_CREATED/T IME_ZONE	10:25 AM GMT	Email: (empty) Native: Time the document was created including time zone **This data must be a separate field and cannot be combined with the DATE_CREATED field
DATE_MOD	10/12/2010	Email: (empty) Native: Date the document was last modified
TIME_MOD/TIME_ ZONE	07:00 PM GMT	Email: (empty) Native: Time the document was last modified including the time zone **This data must be a separate field and cannot be combined with the DATE_MOD field
DATE_ACCESSD	10/12/2010	Email: (empty) Native: Date the document was last accessed
TIME_ACCESSD/T IME_ZONE	07:00 PM GMT	Email: (empty) Native: Time the document was last accessed including the time zone **This data must be a separate field and cannot be combined with the DATE_ACCESSD field
PRINTED_DATE	10/12/2010	Email: (empty) Native: Date the document was last printed
FILE_SIZE	5,952	Size of native file document/email in KB
PGCOUNT	1	Number of pages in native file document/email
PATH	J:\Shared\SmithJ\October Agenda.doc	Email: (empty) Native: Path where native file document was stored including original file name.
INTFILEPATH	Personal Folders\Deleted Items\Board Meeting Minutes.msg	Email: original location of email including original file name. Native: (empty)
INTMSGID	<000805c2c71bS75977050Scb 8306d1@MSN>	Email: Unique Message ID Native: (empty)

Case 1:24-cv-01858-ACR Document 26-1 Filed 02/04/25 Page 705 of 933 Data Delivery Standards

HEADER	Return-Path: <example_from@dc.edu> X-SpamCatcher-Score:1[X] Received:from[136.167.40.119] (HELO dc.edu) by fe3.dc.edu (CommuniGate Pro SMTP4.1.8) with ESMTP-TLS id 61258719 for example_to@mail.dc.edu; Mon, 23 Aug 2004 11:40:10 - 0400 Message-ID: <<4129F3CA.2020509@dc.edu> Date: Mon, 23 Aug 2005 11:40:36 -400 From: Taylor Evans <example_from@dc.edu> User-Agent:Mozilla/5.0 (Windows;U; Windows NT 5.1: en-US;rv:1.0.1) Gecko/20020823 Netscape/7.0 X-Accept-Language:en-us,en MIME-Version:1.0 To: Jon Smith <example_to@mail.dc.edu> Subject:Business Development Meeting Content-Type: text/plain;charset=us-ascii; format=flowed Content-Transfer-Encoding:7bit</example_to@mail.dc.edu></example_from@dc.edu></example_from@dc.edu>	
SHA256	AD6128C5CA40164AF71A1E FC800E12D2F195CE07BB5F8 C813B0888A2DDE6A06F	SHA-256 hash value of the document.
OCRPATH	TEXT/001/EDC0000001.txt	Path to extracted text of the native file

Sample Image Cross-Reference File:

IMG000001,,E:\001\IMG0000001.TIF,Y,,,
IMG0000002,,E:\001\IMG0000002.TIF,,,,
IMG0000003,,E:\001\IMG0000003.TIF,,,,
IMG0000004,,E:\001\IMG0000005.TIF,Y,,,
IMG0000005,,E:\001\IMG0000005.TIF,Y,,,
IMG0000006,,E:\001\IMG0000006.TIF,,,,,

ADDENDUM B

For Electronic Phone Records, include the following fields in separate columns:

For Calls:

- 1) Account Number
- 2) Connection Date Date the call was received or made
- 3) Connection Time Time call was received or made
- 4) Seizure Time Time it took for the call to be placed in seconds
- 5) Originating Number Phone that placed the call
- 6) Terminating Number Phone that received the call
- 7) Elapsed Time The length of time the call lasted, preferably in seconds
- 8) End Time The time the call ended
- 9) Number Dialed Actual number dialed
- 10) IMEI Originating Unique id to phone used to make call
- 11) IMEI Terminating-Unique id to phone used to receive call
- 12) IMSI Originating Unique id to phone used to make call
- 13) IMSI Terminating- Unique id to phone used to receive call
- 14) Call Codes Identify call direction or other routing information
- 15) Time Zone Time Zone in which the call was received or placed, if applicable

For Text messages:

- 1) Account Number
- 2) Connection Date Date the text was received or made
- 3) Connection Time Time text was received or made
- 4) Originating Number Who placed the text
- 5) Terminating Number Who received the text
- 6) IMEI Originating Unique id to phone used to make text
- 7) IMEI Terminating—Unique id to phone used to receive text
- 8) IMSI Originating Unique id to phone used to make text
- 9) IMSI Terminating- Unique id to phone used to receive text
- 10) Text Code Identify text direction, or other text routing information
- 11) Text Type Code Type of text message (sent SMS, MMS, or other)
- 12) Time Zone Time Zone in which the call was received or placed, if applicable

For Mobile Data Usage:

- 1) Account Number
- Connection Date Date the data was received or made
- 3) Connection Time Time data was received or made
- 4) Originating number Number that used data
- 5) IMEI Originating Unique id of phone that used data
- 6) IMSI Originating Unique id of phone that used data
- 7) Data or Data codes Identify data direction, or other data routing information
- 8) Time Zone Time Zone in which the call was received or placed, if applicable

SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549

Supplemental Information for Persons Requested to Supply Information Voluntarily or Directed to Supply Information Pursuant to a Commission Subpoena

A. False Statements and Documents

Section 1001 of Title 18 of the United States Code provides that fines and terms of imprisonment may be imposed upon:

[W]hoever, in any matter within the jurisdiction of the executive, legislative, or judicial branch of the Government of the United States, knowingly and willfully--

- (1) falsifies, conceals, or covers up by any trick, scheme, or device a material fact;
- (2) makes any materially false, fictitious, or fraudulent statement or representation; or
- (3) makes or uses any false writing or document knowing the same to contain any materially false, fictitious, or fraudulent statement or entry.

Section 1519 of Title 18 of the United States Code provides that fines and terms of imprisonment may be imposed upon:

Whoever knowingly alters, destroys, mutilates, conceals, covers up, falsifies, or makes a false entry in any record, document, or tangible object with the intent to impede, obstruct, or influence the investigation or proper administration of any matter within the jurisdiction of any department or agency of the United States . . ., or in relation to or contemplation of any such matter.

B. Testimony

If your testimony is taken, you should be aware of the following:

- 1. Record. Your testimony will be transcribed by a reporter. If you desire to go off the record, please indicate this to the Commission employee taking your testimony, who will determine whether to grant your request. The reporter will not go off the record at your, or your counsel's, direction.
- 2. Counsel. You have the right to be accompanied, represented and advised by counsel of your choice. Your counsel may advise you before, during and after your testimony; question you briefly at the conclusion of your testimony to clarify any of the answers you give during testimony; and make summary notes during your testimony solely for your use. If you are accompanied by counsel, you may consult privately.

If you are not accompanied by counsel, please advise the Commission employee taking your testimony if, during the testimony, you desire to be accompanied, represented and advised by counsel. Your testimony will be adjourned once to afford you the opportunity to arrange to be so accompanied, represented or advised.

You may be represented by counsel who also represents other persons involved in the Commission's investigation. This multiple representation, however, presents a potential conflict of interest if one client's interests are or may be adverse to another's. If you are represented by counsel who also represents other persons involved in the investigation, the Commission will assume that you and counsel have discussed and resolved all issues concerning possible conflicts of interest. The choice of counsel, and the responsibility for that choice, is yours.

3. Transcript Availability. Rule 6 of the Commission's Rules Relating to Investigations, 17 CFR 203.6, states:

A person who has submitted documentary evidence or testimony in a formal investigative proceeding shall be entitled, upon written request, to procure a copy of his documentary evidence or a transcript of his testimony on payment of the appropriate fees: *Provided, however*, That in a nonpublic formal investigative proceeding the Commission may for good cause deny such request. In any event, any witness, upon proper identification, shall have the right to inspect the official transcript of the witness' own testimony.

If you wish to purchase a copy of the transcript of your testimony, the reporter will provide you with a copy of the appropriate form. Persons requested to supply information voluntarily will be allowed the rights provided by this rule.

4. *Perjury.* Section 1621 of Title 18 of the United States Code provides that fines and terms of imprisonment may be imposed upon:

Whoever-

(1) having taken an oath before a competent tribunal, officer, or person, in any case in which a law of the United States authorizes an oath to be administered, that he will testify, declare,

depose, or certify truly, or that any written testimony, declaration, deposition, or certificate by him subscribed, is true, willfully and contrary to such oath states or subscribes any material matter which he does not believe to be true; or

- (2) in any declaration, certificate, verification, or statement under penalty of perjury as permitted under section 1746 of title 28, United States Code, willfully subscribes as true any material matter which he does not believe to be true.
- 5. Fifth Amendment and Voluntary Testimony. Information you give may be used against you in any federal, state, local or foreign administrative, civil or criminal proceeding brought by the Commission or any other agency.

You may refuse, in accordance with the rights guaranteed to you by the Fifth Amendment to the Constitution of the United States, to give any information that may tend to incriminate you.

If your testimony is not pursuant to subpoena, your appearance to testify is voluntary, you need not answer any question, and you may leave whenever you wish. Your cooperation is, however, appreciated.

6. Formal Order Availability. If the Commission has issued a formal order of investigation, it will be shown to you during your testimony, at your request. If you desire a copy of the formal order, please make your request in writing.

C. Submissions and Settlements

Rule 5(c) of the Commission's Rules on Informal and Other Procedures, 17 CFR 202,5(c), states:

Persons who become involved in . . . investigations may, on their own initiative, submit a written statement to the Commission setting forth their interests and position in regard to the subject matter of the investigation. Upon request, the staff, in its discretion, may advise such persons of the general nature of the investigation, including the indicated violations as they pertain to them, and the amount of time that may be available for preparing and submitting a statement prior to the presentation of a staff recommendation to the Commission for the commencement of an administrative or injunction proceeding. Submissions by interested persons should be forwarded to the appropriate Division Director or Regional Director with a copy to the staff members conducting the investigation and should be clearly referenced to the specific investigation to which they relate. In the event a recommendation for the commencement of an enforcement proceeding is presented by the staff, any submissions by interested persons will be forwarded to the Commission in conjunction with the staff memorandum.

The staff of the Commission routinely seeks to introduce submissions made pursuant to Rule 5(c) as evidence in Commission enforcement proceedings, when the staff deems appropriate.

Rule 5(f) of the Commission's Rules on Informal and Other Procedures, 17 CFR 202.5(f), states:

In the course of the Commission's investigations, civil lawsuits, and administrative proceedings, the staff, with appropriate authorization, may discuss with persons involved the disposition of such matters by consent, by settlement, or in some other manner. It is the policy of the Commission, however, that the disposition of any such matter may not, expressly or impliedly, extend to any criminal charges that have been, or may be, brought against any such person or any recommendation with respect thereto. Accordingly, any person involved in an enforcement matter before the Commission who consents, or agrees to consent, to any judgment or order does so solely for the purpose of resolving the claims against him in that investigative, civil, or administrative matter and not for the purpose of resolving any criminal charges that have been, or might be, brought against him. This policy reflects the fact that neither the Commission nor its staff has the authority or responsibility for instituting, conducting, settling, or otherwise disposing of criminal proceedings. That authority and responsibility are vested in the Attorney General and representatives of the Department of Justice.

D. Freedom of Information Act

The Freedom of Information Act, 5 U.S.C. 552 (the "FOIA"), generally provides for disclosure of information to the public. Rule 83 of the Commission's Rules on Information and Requests, 17 CFR 200.83, provides a procedure by which a person can make a written request that information submitted to the Commission not be disclosed under the FOIA. That rule states that no determination as to the validity of such a request will be made until a request for disclosure of the information under the FOIA is received. Accordingly, no response to a request that information not be disclosed under the FOIA is necessary or will be given until a request for disclosure under the FOIA is received. If you desire an acknowledgment of receipt of your written request that information not be disclosed under the FOIA, please provide a duplicate request, together with a stamped, self-addressed envelope.

E. Authority for Solicitation of Information

Persons Directed to Supply Information Pursuant to Subpoena. The authority for requiring production of information is set forth in the subpoena. Disclosure of the information to the Commission is mandatory, subject to the valid assertion of any legal right or privilege you might have.

Persons Requested to Supply Information Voluntarily. One or more of the following provisions authorizes the Commission to solicit the information requested: Sections 19 and/or 20 of the Securities Act of 1933; Section 21 of the Securities Exchange Act of 1934; Section 321 of the Trust Indenture Act of 1939; Section 42 of the Investment Company Act of 1940; Section 209 of the Investment Advisers Act of 1940; and 17 CFR 202.5. Disclosure of the requested information to the Commission is voluntary on your part.

F. Effect of Not Supplying Information

Persons Directed to Supply Information Pursuant to Subpoena. If you fail to comply with the subpoena, the Commission may seek a court order requiring you to do so. If such an order is obtained and you thereafter fail to supply the information, you may be subject to civil and/or criminal sanctions for contempt of court. In addition, Section 21(c) of the Securities Exchange Act of 1934, Section 42(c) of the Investment Company Act of 1940, and Section 209(c) of the Investment Advisers Act of 1940 provide that fines and terms of imprisonment may be imposed upon any person who shall, without just cause, fail or refuse to attend and testify or to answer any lawful inquiry, or to produce books, papers, correspondence, memoranda, and other records in compliance with the subpoena.

Persons Requested to Supply Information Voluntarily. There are no direct sanctions and thus no direct effects for failing to provide all or any part of the requested information.

G. Principal Uses of Information

The Commission's principal purpose in soliciting the information is to gather facts in order to determine whether any person has violated, is violating, or is about to violate any provision of the federal securities laws or rules for which the Commission has enforcement authority, such as rules of securities exchanges and the rules of the Municipal Securities Rulemaking Board. Facts developed may, however, constitute violations of other laws or rules. Information provided may be used in Commission and other agency enforcement proceedings. Unless the Commission or its staff explicitly agrees to the contrary in writing, you should not assume that the Commission or its staff acquiesces in, accedes to, or concurs or agrees with, any position, condition, request, reservation of right, understanding, or any other statement that purports, or may be deemed, to be or to reflect a limitation upon the Commission's receipt, use, disposition, transfer, or retention, in accordance with applicable law, of information provided.

H. Routine Uses of Information

The Commission often makes its files available to other governmental agencies, particularly United States Attorneys and state prosecutors. There is a likelihood that information supplied by you will be made available to such agencies where appropriate. Whether or not the Commission makes its files available to other governmental agencies is, in general, a confidential matter between the Commission and such other governmental agencies.

Set forth below is a list of the routine uses which may be made of the information furnished.

- 1. To appropriate agencies, entities, and persons when (1) the SEC suspects or has confirmed that there has been a breach of the system of records, (2) the SEC has determined that as a result of the suspected or confirmed breach there is a risk of harm to individuals, the SEC (including its information systems, programs, and operations), the Federal Government, or national security; and (3) the disclosure made to such agencies, entities, and persons is reasonably necessary to assist in connection with the SEC's efforts to respond to the suspected or confirmed breach or to prevent, minimize, or remedy such harm.
- 2. To other Federal, state, local, or foreign law enforcement agencies; securities self-regulatory organizations; and foreign financial regulatory authorities to assist in or coordinate regulatory or law enforcement activities with the SEC.
- 3. To national securities exchanges and national securities associations that are registered with the SEC, the Municipal Securities Rulemaking Board; the Securities Investor Protection Corporation; the Public Company Accounting Oversight Board; the Federal banking authorities, including, but not limited to, the Board of Governors of the Federal Reserve System, the Comptroller of the Currency, and the Federal Deposit Insurance Corporation; state securities regulatory agencies or organizations; or regulatory authorities of a foreign government in connection with their regulatory or enforcement responsibilities.
- 4. By SEC personnel for purposes of investigating possible violations of, or to conduct investigations authorized by, the Federal securities laws.
- 5. In any proceeding where the Federal securities laws are in issue or in which the Commission, or past or present members of its staff, is a party or otherwise involved in an official capacity.
- 6. In connection with proceedings by the Commission pursuant to Rule 102(e) of its Rules of Practice, 17 CFR 201.102(e).

- 7. To a bar association, state accountancy board, or other Federal, state, local, or foreign licensing or oversight authority; or professional association or self-regulatory authority to the extent that it performs similar functions (including the Public Company Accounting Oversight Board) for investigations or possible disciplinary action.
- 8. To a Federal, state, local, tribal, foreign, or international agency, if necessary to obtain information relevant to the SEC's decision concerning the hiring or retention of an employee; the issuance of a security clearance; the letting of a contract; or the issuance of a license, grant, or other benefit.
- 9. To a Federal, state, local, tribal, foreign, or international agency in response to its request for information concerning the hiring or retention of an employee; the issuance of a security clearance; the reporting of an investigation of an employee; the letting of a contract; or the issuance of a license, grant, or other benefit by the requesting agency, to the extent that the information is relevant and necessary to the requesting agency's decision on the matter.
- 10. To produce summary descriptive statistics and analytical studies, as a data source for management information, in support of the function for which the records are collected and maintained or for related personnel management functions or manpower studies; may also be used to respond to general requests for statistical information (without personal identification of individuals) under the Freedom of Information Act.
- 11. To any trustee, receiver, master, special counsel, or other individual or entity that is appointed by a court of competent jurisdiction, or as a result of an agreement between the parties in connection with litigation or administrative proceedings involving allegations of violations of the Federal securities laws (as defined in section 3(a)(47) of the Securities Exchange Act of 1934, 15 U.S.C. 78c(a)(47)) or pursuant to the Commission's Rules of Practice, 17 CFR 201.100 through 900 or the Commission's Rules of Fair Fund and Disgorgement Plans, 17 CFR 201.1100 through 1106, or otherwise, where such trustee, receiver, master, special counsel, or other individual or entity is specifically designated to perform particular functions with respect to, or as a result of, the pending action or proceeding or in connection with the administration and enforcement by the Commission of the Federal securities laws or the Commission's Rules of Practice or the Rules of Fair Fund and Disgorgement Plans.
- 12. To any persons during the course of any inquiry, examination, or investigation conducted by the SEC's staff, or in connection with civil litigation, if the staff has reason to believe that the person to whom the record is disclosed may have further information about the matters related therein, and those matters appeared to be relevant at the time to the subject matter of the inquiry.
- 13. To interns, grantees, experts, contractors, and others who have been engaged by the Commission to assist in the performance of a service related to this system of records and who need access to the records for the purpose of assisting the Commission in the efficient administration of its programs, including by performing clerical, stenographic, or data analysis functions, or by reproduction of records by electronic or other means. Recipients of these records shall be required to comply with the requirements of the Privacy Act of 1974, as amended, 5 U.S.C.
- 14. In reports published by the Commission pursuant to authority granted in the Federal securities laws (as such term is defined in section 3(a)(47) of the Securities Exchange Act of 1934, 15 U.S.C. 78c(a)(47)), which authority shall include, but not be limited to, section 21(a) of the Securities Exchange Act of 1934, 15 U.S.C. 78u(a)).
- 15. To members of advisory committees that are created by the Commission or by Congress to render advice and recommendations to the Commission or to Congress, to be used solely in connection with their official designated functions.
- 16. To any person who is or has agreed to be subject to the Commission's Rules of Conduct, 17 CFR 200.735-1 through 200.735-18, and who assists in the investigation by the Commission of possible violations of the Federal securities laws (as such term is defined in section 3(a)(47) of the Securities Exchange Act of 1934, 15 U.S.C. 78c(a)(47)), in the preparation or conduct of enforcement actions brought by the Commission for such violations, or otherwise in connection with the Commission's enforcement or regulatory functions under the Federal securities laws.
- 17. To a Congressional office from the record of an individual in response to an inquiry from the Congressional office made at the request of that individual.
- 18. To members of Congress, the press, and the public in response to inquiries relating to particular Registrants and their activities, and other matters under the Commission's jurisdiction.
- 19. To prepare and publish information relating to violations of the Federal securities laws as provided in 15 U.S.C. 78c(a)(47)), as amended.
- 20. To respond to subpoenas in any litigation or other proceeding.
- 21. To a trustee in bankruptcy.
- 22. To any governmental agency, governmental or private collection agent, consumer reporting agency or commercial reporting agency, governmental or private employer of a debtor, or any other person, for collection,

including collection by administrative offset, Federal salary offset, tax refund offset, or administrative wage garnishment, of amounts owed as a result of Commission civil or administrative proceedings.

23. To another Federal agency or Federal entity, when the SEC determines that information from this system of records is reasonably necessary to assist the recipient agency or entity in (1) responding to a suspected or confirmed breach or (2) preventing, minimizing, or remedying the risk of harm to individuals, the recipient agency or entity (including its information systems, programs, and operations), the Federal Government, or national security, resulting from a suspected or confirmed breach.

* * * * *

Small Business Owners: The SEC always welcomes comments on how it can better assist small businesses. If you would like more information, or have questions or comments about federal securities regulations as they affect small businesses, please contact the Office of Small Business Policy, in the SEC's Division of Corporation Finance, at 202-551-3460. If you would prefer to comment to someone outside of the SEC, you can contact the Small Business Regulatory Enforcement Ombudsman at http://www.sba.gov/ombudsman or toll free at 888-REG-FAIR. The Ombudsman's office receives comments from small businesses and annually evaluates federal agency enforcement activities for their responsiveness to the special needs of small business.

To: mkaplan@gusraekaplan.com[mkaplan@gusraekaplan.com] (b)(6); (b)(7)(4)SE 1.24-CV SEC.GOV; (b)(6); (b)(7)(4)(11)E11(26-1 File 9820.4/35; (D) (B) 308 (C) 12 Of 933 psec.gov] Cc: (b)(6); (b)(7)(C) From: 2024-02-27T23:24:43Z Sent: Subject:

SMAIL C-08950 Prometheum Ember Capital Subpoena Received: 2024-02-27T23:24:51Z

C-8950 Prometheum Ember Capital Subpoena.pdf

Dear Mr. Kaplan:

Please see the attached document subpoena.

Thank you, (b)(6);

(b)(6); (b)(7)(C) (b)(6); Division of Enforcement U.S. Securities and Exchange Commission 100 Pearl Street, Suite 20-100 New York, NY 10004 OFFICE (b)(6); (b)(7)(C)

MOBILE

(b)(6); @sec.gov



UNITED STATES SECURITIES AND EXCHANGE COMMISSION

100 PEARL STREET, SUITE 20-100 NEW YORK, NY 10004-2616

DIVISION OF ENFORCEMENT

February 27, 2024

VIA SECURE EMAIL

Prometheum Ember Capital, LLC c/o Martin H. Kaplan Gusrae Kaplan Nusbaum PLLC 120 Wall Street, Floor 25 New York, NY 10005 mkaplan@gusraekaplan.com

Re: C-08950

Dear Mr. Kaplan:

The enclosed subpoena has been issued pursuant to a formal order entered by the United States Securities and Exchange Commission. Pursuant to Rule 8 of the United States Securities and Exchange Commission's Rules Relating to Investigations, 17 C.F.R. § 203.8, I have enclosed a subpoena for documents issued to Prometheum Ember Capital, LLC ("ProCap") in connection with the above-referenced investigation.

The enclosed subpoena requires ProCap to produce documents to the SEC by March 12, 2024 to:

ENF-CPU U.S. Securities and Exchange Commission 14420 Albemarle Point Place, Suite 102 Chantilly, VA 20151-1750

For smaller electronic productions under 10MB in size, the materials may be emailed to the following email address: ENF-CPU@sec.gov.

171	lease also p	rovide				document	production	cover	letters to	me at
(b)(6); (b)(7)(C)	@sec.gov,	(b)(6); (b)(7)(C)	at (b)(6)	(c))sec.gov,	b)(6); (b)(7)(C)		at	
(b)(6); (b)(7)(C	i) i)sec.gov	, and (6)(6); (b)(7)(C		(b)(6);	@sec.go	v. Addition	ally, p	olease incl	ude the
SEC matt	er number	and the	name of	the rec	questing	attorney v	when respoi	nding.		

Please carefully read the subpoena attachment, which contains, among other things, important instructions related to the manner of producing documents. In particular, if ProCap prefers to send us copies of original documents, the staff requests that you scan and produce hard copy documents, as well as electronic documents, in an electronic format consistent with the SEC Data Delivery Standards attached hereto. All electronic documents responsive to the subpoena, including all metadata, should also be produced in their native software format. If you have any questions concerning the production of documents in an electronic format, please contact me as soon as possible and in any event before producing documents. For security reasons, we strongly encourage the encryption of sensitive documents before production.

When producing the records, please consecutively number and mark each document produced with a symbol that identifies it as being produced by ProCap and provide an index which briefly identifies the documents produced.

In your cover letter(s) accompanying the production of responsive documents, please enclose a list briefly describing each item you send. The list should identify the paragraph(s) in the subpoena attachment to which each item responds. Please also state in the cover letter(s) whether you believe ProCap has met the obligations of the subpoena by searching carefully and thoroughly for everything called for by the subpoena and sending it all to us.

A copy of the subpoena should be included with the documents that are produced. Correspondence should reference case number and requesting SEC staff member.

Passwords for documents, files, compressed archives, and encrypted media should be provided separately either via email addressed to ENF-CPU@sec.gov, or in a separate cover letter mailed separately from the data. Password correspondence should reference case number and requesting SEC staff member.

In addition, for any documents that qualify as records of regularly conducted activities under Federal Rule of Evidence 902(11), please have the appropriate representative(s) of ProCap complete a business records certification (a sample of which is enclosed) and return it with the document production. Execution of this certification may allow the Commission to introduce the documents provided by ProCap in any subsequent judicial proceeding, without requiring the testimony of a records custodian.

Enclosed is a copy of the Commission's Form 1662, entitled "Supplemental Information for Persons Requested to Supply Information Voluntarily or Directed to Supply Information Pursuant to a Commission Subpoena." This form explains how we may use the information which ProCap provides to the Commission and has other important information.

This investigation is a non-public, fact-finding inquiry. We are trying to determine whether there have been any violations of the federal securities laws. The investigation does not mean that we have concluded that anyone has violated the law. Also, the investigation does not mean that we have a negative opinion of any person, entity, or security.

If you have any questions or would like to discuss this matter, you may contact me at (b)(6); (b)(7)(C)

Sincerely,	
(b)(6); (b)(7)(C)	
Division of Enforcement	
(b)(6); (b)(7)(C)	
(b)(6); (b)(7)(C) (p)sec.gov	

Enclosures: Subpoena and Attachment

Business Records Certification SEC Data Delivery Standards

SEC Form 1662



SUBPOENA

UNITED STATES OF AMERICA SECURITIES AND EXCHANGE COMMISSION

C-08950

To: Prometheum Ember Capital, LLC c/o Martin H. Kaplan
Gusrae Kaplan Nusbaum PLLC
120 Wall Street, Floor 25
New York, NY 10005

YOU MUST PRODUCE everything specified in the Attachment to this subpoena to officers of the Securities and Exchange Commission, at the place, date and time specified below:

ENF-CPU, U.S. Securities and Exchange Commission, 14420 Albemarle Point Place, Suite 102 Chantilly, VA 20151-1750, no later than March 12, 2024.

YOU MUST TESTIFY before officers of the Securities and Exchange Commission, at the place, date and time specified below:

FEDERAL LAW REQUIRES YOU TO COMPLY WITH THIS SUBPOENA.

If you do not comply with this subpoena, the SEC may bring an action in Federal Court to enforce this subpoena. Failure to comply with a court order enforcing this subpoena may result in the court imposing a fine, imprisonment, or both.

Date:

February 27, 2024

By: (b)(6); (b)(7)(C)

U.S. Securities and Exchange Commission New York Regional Office 100 Pearl Street, Suite 20-100 New York, NY 10004-2616

I am an officer of the U.S. Securities and Exchange Commission authorized to issue subpoenas in this matter. The Securities and Exchange Commission has issued a formal order authorizing this investigation under Section 20(a) of the Securities Act of 1933.

NOTICE TO WITNESS: If you claim a witness fee or mileage, submit this subpoena with the claim voucher.

SUBPOENA ATTACHMENT FOR PROMETHEUM EMBER CAPITAL, LLC $\underline{\text{C-}08950}$

February 27, 2024

Definitions

As used in this subpoena, the words and phrases listed below shall have the following meanings:

- 1. "ProCap" means the entity doing business under the name "Prometheum Ember Capital, LLC" including parents, subsidiaries, affiliates, predecessors, successors, officers, directors, employees, agents, general partners, limited partners, partnerships and aliases, code names, or trade or business names used by any of the foregoing.
- 2. "Communication" means any correspondence, contact, discussion, e-mail, instant message, or any other kind of oral or written exchange or transmission of information (in the form of facts, ideas, inquiries, or otherwise), including but not limited to those made on Social Media Services, and any response thereto between two or more Persons or entities, including, without limitation, all telephone conversations, face-to-face meetings or conversations, internal or external discussions, or exchanges of a Document or Documents.
- 3. "Concerning" means directly or indirectly, in whole or in part, describing, constituting, evidencing, recording, evaluating, substantiating, concerning, referring to, alluding to, in connection with, commenting on, relating to, regarding, discussing, showing, analyzing or reflecting.
- 4. "ConsenSys" means the entity or business doing business under the name ConsenSys Software, Inc., including parents, subsidiaries, affiliates, predecessors, successors, officers, directors, employees, agents, general partners, limited partners, partnerships and aliases, owners, code names, or trade or business names used by any of the foregoing.
- 5. "Document" shall include, but is not limited to, any written, printed, or typed matter including, but not limited to all drafts and copies bearing notations or marks not found in the original, letters and correspondence, interoffice communications, slips, tickets, records, worksheets, financial records, accounting documents, bookkeeping documents, memoranda, reports, manuals, telephone logs, facsimiles, messages of any type, telephone messages, text messages, voice mails, tape recordings, notices, instructions, minutes, summaries, notes of meetings, file folder markings, and any other organizational indicia, purchase orders, information recorded by photographic process, including microfilm and microfiche, computer printouts, spreadsheets, and other electronically stored information, including writings, drawings, graphs, charts, photographs, sound recordings, images, and other data or data compilations that are stored in any medium from which information can be retrieved, obtained, manipulated, or translated.

- 6. "ETH" means Ether or the native crypto asset for the Ethereum blockchain and network.
- 7. "Ethereum Developers" refers to any anyone developing on the Ethereum blockchain and network, including, but not limited to, Ethereum protocol developers also known as Ethereum core developers.
- 8. The "Ethereum Foundation" means the entity or business doing business under the name "Ethereum Foundation," including, but not limited to, ethereum.org and parents, subsidiaries, affiliates, predecessors, successors, officers, directors, employees, agents, general partners, limited partners, partnerships and aliases, owners, code names, or trade or business names used by any of the foregoing.
- 9. "The Merge" or "Ethereum 2.0" means the transition by the Ethereum blockchain of its consensus mechanism from proof-of-work to proof-of-stake.
- 10. The term "You" and "Your" means the Person to whom or entity to which this subpoena was issued.
- 11. To the extent necessary to bring within the scope of this this subpoena any information or Documents that might otherwise be construed to be outside its scope:
 - a. the word "or" means "and/or";
 - b. the word "and" means "and/or";
 - c. the functional words "each," "every" "any" and "all" shall each be deemed to include each of the other functional words;
 - d. the masculine gender includes the female gender and the female gender includes the masculine gender; and
 - e. the singular includes the plural and the plural includes the singular.

Instructions

- 1. Unless otherwise specified, this subpoena calls for production of the original Documents and all copies and drafts of same. Documents responsive to this subpoena may be in electronic or paper form. Electronic Documents such as email should be produced in accordance with the attached Document entitled SEC Data Delivery Standards. All responsive electronic Documents, including all metadata, should also be produced in their native software format.
- 2. For Documents in paper format, you may send the originals, or, if you prefer, you may send copies of the originals. The Commission cannot reimburse you for the copying costs. If you are sending copies, the staff requests that you scan (rather than photocopy) hard copy Documents and produce them in an electronic format consistent with the SEC Data Delivery Standards. Alternatively, you may send us photocopies of the Documents in paper format. If you choose to send copies, you <u>must</u> secure and retain the originals and store them in a safe place. The staff may later request or require that you produce the originals.

- 3. Whether you scan or photocopy Documents, the copies must be identical to the originals, including even faint marks or print. Also, please note that if copies of a Document differ in any way, they are considered separate Documents and you must send each one. For example, if you have two copies of the same letter, but only one of them has handwritten notes on it, you must send both the clean copy and the one with notes.
- 4. In producing a photocopy of an original Document that contains post-it(s), notation flag(s), or other removable markings or attachments which may conceal all or a portion of the markings contained in the original Document, photocopies of the original Document both with and without the relevant post-it(s), notation flag(s), or removable markings or attachments should be produced.
- 5. Documents should be produced as they are kept in the ordinary course of business or be organized and labeled to correspond with the categories in this request. In that regard, Documents should be produced in a unitized manner, i.e., delineated with staples or paper clips to identify the Document boundaries.
- 6. Documents should be labeled with sequential numbering (bates-stamped).
- 7. The scope of any given request should not be limited or narrowed on the basis that it calls for Documents that are responsive to another request.
- 8. This subpoena covers all Documents in or subject to your possession, custody or control, including all Documents that are not in your immediate possession but that you have the effective ability to obtain, that are responsive, in whole or in part, to any of the individual requests set forth below. If, for any reason including a claim of attorney-client privilege you do not produce something called for by the request, you should submit a list of what you are not producing. The list should describe each item separately, noting:
 - a. its author(s);
 - b. its date:
 - c. its subject matter;
 - d. the name of the Person who has the item now, or the last Person known to have it;
 - e. the names of everyone who ever had the item or a copy of it, and the names of everyone who was told the item's contents;
 - f. the basis upon which you are not producing the responsive Document;
 - g. the specific request in the subpoena to which the Document relates;
 - h. the attorney(s) and the client(s) involved; and
 - i. in the case of the work product doctrine, the litigation for which the Document was prepared in anticipation.
- 9. If Documents responsive to this subpoena no longer exist because they have been lost, discarded, or otherwise destroyed, you should identify such Documents and give the date on which they were lost, discarded, or destroyed.

Documents to be Produced

- 1. Documents and Communications Concerning any legal analysis of ETH, the Merge, or Ethereum 2.0, including, but not limited to, Communications with the Ethereum Foundation, ConsenSys, or Ethereum Developers. Please note that the above Instructions discuss the procedures for how to handle privileged documents.
- 2. Documents upon which You relied in any analysis responsive to Request No. 1 above.
- 3. Communications with any regulator or government agency in the U.S. or a foreign country Concerning ETH, the Merge, or Ethereum 2.0, including, but not limited to, Communications by attorneys or agents representing you.

DECLARATION OF [Insert Name] CERTIFYING RECORDS OF REGULARLY CONDUCTED BUSINESS ACTIVITY

I, the undersigned, [insert name], pursuant to 28 U.S.C. § 1746, declare that:

- 1. I am employed by [insert name of company] as [insert position] and by reason of my position am authorized and qualified to make this declaration. [if possible supply additional information as to how person is qualified to make declaration, e.g., I am custodian of records, I am familiar with the company's recordkeeping practices or systems, etc.]
- 2. I further certify that the documents [attached hereto or submitted herewith] and stamped [insert bates range] are true copies of records that were:
 - (a) made at or near the time of the occurrence of the matters set forth therein, by, or from information transmitted by, a person with knowledge of those matters;
 - (b) kept in the course of regularly conducted business activity; and
 - (c) made by the regularly conducted business activity as a regular practice.

I declare under penalty of perjury that the foregoing is true and correct. Executed on [date].

 [Name]	



U.S. Securities and Exchange Commission

Data Delivery Standards

This document describes the technical requirements for paper and electronic document productions to the U.S. Securities and Exchange Commission (SEC). **Any questions or proposed file formats other than those described below must be discussed with the legal and technical staff of the SEC Division of Enforcement prior to submission. **

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General Instructions

The current mailing address for all physical productions sent to the SEC is:

ENF-CPU (U.S. Securities & Exchange Commission), 14420 Albemarle Point Place, Suite 102, Chantilly, VA 20151-1750

Electronic files must be produced in their native format, i.e. the format in which they are ordinarily used and maintained during the normal course of business. For example, an MS Excel file must be produced as an MS Excel file rather than an image of a spreadsheet. (Note: An Adobe PDF file is not considered a native file unless the document was initially created as a PDF.)

In the event produced files require the use of proprietary software not commonly found in the workplace, the SEC will explore other format options with the producing party.

The proposed use of file de-duplication methodologies or computer-assisted review or technology-assisted review (TAR) during the processing of documents must be discussed with and approved by the legal and technical staff of the Division of Enforcement (ENF). If your production will be de-duplicated it is vital that you 1) preserve any unique metadata associated with the duplicate files, for example, custodian name and file location and, 2) make that unique metadata part of your production to the SEC.

General requirements for ALL document productions are:

- 1. A cover letter must be included with each production and should include the following information:
 - Case number, case name and requesting SEC staff member name
 - b. A list of each piece of media included in the production with its unique production volume number
 - c. A list of custodians, identifying the Bates range for each custodian
 - d. A list of redacted documents and the redaction reason
 - c. The time zone in which the emails were standardized during conversion
 - f. Whether the production contains native files produced from Mac operating system environments
- Data can be produced on CD, DVD, thumb drive, etc., using the media requiring the least number of deliverables and labeled with the following:
 - a. Case number
 - b. Production date
 - c. Producing party
 - d. Bates range (if applicable)
- All submissions must be organized by custodian unless otherwise instructed.
- All document family groups, i.e. email attachments, embedded files, etc., should be produced together and children files should follow parent files sequentially in the Bates numbering.
- All load-ready collections should include only one data load file and one image pointer file.
- All load-ready text must be produced as separate document-level text files.
- All load-ready collections should account for custodians in the custodian field.
- 8. All load-ready collections must provide the extracted contents of any container files to ensure all relevant files are produced as separate records.
- Audio files should be separated from data files if both are included in the production.
- 10. Only alphanumeric characters and the underscore character are permitted in file names and folder names. Special characters are not permitted.
- 11. All electronic productions submitted on media must be produced using industry standard self-extracting encryption software.
- 12. The SEC uses 7zip to access compressed files. Note that the SEC cannot accept files that use AES-256 Jpeg or pkAES-256-Cert Deflate compression methods, even if the files are created with 7zip. If you have any questions or need additional information, please reach out to the requesting SEC staff member.
- 13. Electronic productions of 30 GB or less are strongly encouraged to be submitted via Secure File Transfer. All Secure File Transfers should be sent to the SEC Centralized Production Unit (ENF-CPU@sec.gov) with a CC to the requesting SEC staff member. If you do not have your own Secure File Transfer application, you may reach out to the requesting SEC staff member for a link to the SEC system in order to upload your production. If using the SEC Secure File Transfer system, you will NOT be able to CC individuals outside the SEC on your upload transmission. Note that the SEC cannot accept productions made using file sharing sites such as Google Drive or Microsoft Office 365.
- 14. Productions containing BSA or SAR material must be encrypted. Secure File Transfer applications may be used to produce BSA or SAR material. BSA or SAR material should be segregated and appropriately marked as BSA or SAR, or should be produced separately from other case related records.
- 15. Passwords for electronic documents, files, compressed archives and encrypted media must be provided separately either via email or in a cover letter apart from the media.
- 16. All electronic productions should be produced free of computer viruses.
- 17. Before producing forensically collected images, parties should reach out to the requesting SEC staff member in order to discuss appropriate handling.
- 18. Before producing unique data sets (large sets of relational data, website reconstruction, chat room data, etc.), parties should reach out to the requesting SEC staff member in order to discuss an appropriate production format.
- Additional technical descriptions can be found in the addendum to this document.

Please note that productions sent to the SEC via United States Postal Service are subject to Mail Irradiation, and as a result electronic productions may be damaged.

Delivery Formats

Imaged Productions

The SEC prefers that all scanned paper and electronic file collections be produced in a structured format including industry standard load files, Bates numbered image files, native files and searchable document-level text files. Bates numbers should not contain spaces. Hyphens (-) and underscores (-) are acceptable.

1. Images

- Black and white images must be 300 DPI Group IV single-page TIFF files
- b. Color images must be produced in JPEG format
- File names cannot contain embedded spaces or special characters (including the comma)
- d. Folder names cannot contain embedded spaces or special characters (including the comma)
- e. All image files must have a unique file name, i.e. Bates number
- f. Images must be endorsed with sequential Bates numbers in the lower right corner of each image
- The number of image files per folder should not exceed 2,000 files g.
- h. Excel spreadsheets should have a placeholder image named by the Bates number of the file
- AUTOCAD/photograph files should be produced as a single page JPEG file

2. Image Cross-Reference File

The image cross-reference file (LOG or .OPT) links the images to the database records. It should be a comma-delimited file consisting of seven fields per line with a line in the cross-reference file for every image in the database with the following format:

ImageID, VolumeLabel, ImageFilePath, DocumentBreak, FolderBreak, BoxBreak, PageCount

3. Data File

The data file (.DAT) contains all of the fielded information that will be loaded into the database.

- The first line of the .DAT file must be a header row identifying the field names
- The .DAT file must use the following *Concordance*® default delimiters:

Comma ¶ ASCII character (020)

Quote b ASCII character (254)

- c. If the .DAT file is produced in Unicode format it must contain the byte order marker
- d. Date fields should be provided in the format: mm/dd/yyyy
- Date and time fields must be two separate fields
- The time zone must be included in all time fields f.
- If the production includes imaged emails and attachments, the attachment fields must be included to preserve the parent/child relationship between an email and its attachments
- An OCRPATH field must be included to provide the file path and name of the extracted text file on the produced storage media. The text file must be named after the FIRSTBATES. Do not include the text in the .DAT file.
- For productions with native files, a LINK field must be included to provide the file path and name of the native file on the produced storage media. The native file must be named after the FIRSTBATES.
- BEGATTACH and ENDATTACH fields must be two separate fields
- A complete list of metadata fields is available in Addendum A to this document

4. Text

Text must be produced as separate document-level text files, not as fields within the .DAT file. The text files must be named per the FIRSTBATES/Image Key and the full path to the text file (OCRPATII) should be included in the .DAT file. Text files may be in either ANSI or Unicode format, however, ALL text files must be in the same format within the same production. Note that productions containing text with foreign characters must produce text files in Unicode format to preserve the foreign characters. Text files must be in a separate folder, and the number of text files per folder should not exceed 2,000 files. There should be no special characters (including commas) in the folder names. For redacted documents, provide the full text for the redacted version.

Linked Native Files

Copies of original email and native file documents/attachments must be included for all electronic productions.

- a. Native file documents must be named per the FIRSTBATES number
- b. The full path of the native file must be provided in the .DAT file for the LINK field
- The number of native files per folder should not exceed 2,000 files

II. Native File Production without Load Files

With prior approval, native files may be produced without load files. Native file productions should not be Bates numbered. Native files must be produced as they are maintained in the normal course of business and organized by custodian-named file folders. Native email files (.PST or .MBOX) must be separated by custodian.

III. Adobe PDF File Production

With prior approval, Adobe PDF files may be produced in native file format.

- 1. All PDFs must be unitized at the document level, i.e. each PDF must represent a discrete document.
- 2. PDF files should be produced in separate folders named by the custodian. The folders should not contain any special characters (including commas).
- 3. All PDF files must contain embedded text that includes all discernible words within the document, not selected text or image only. This requires all layers of the PDF to be flattened first.
- 4. If PDF files are Bates endorsed, the PDF files must be named by the Bates range.

IV. Audio Files

Audio files from telephone recording systems must be produced in a format that is playable using Microsoft Windows Media PlayerTM. Additionally, the call information (metadata) related to each audio recording MUST be provided. The metadata file must be produced in a delimited text format. Field names must be included in the first row of the text file. The metadata must include, at a minimum, the following fields:

1) Caller Name: Caller's name or account/identification number

2) Originating Number: Caller's phone number3) Called Party Name: Called party's name

4) Terminating Number: Called party's phone number

5) Date: Date of call
6) Time: Time of call

7) Filename: Filename of audio file

V. Video Files

Video files must be produced in a format that is playable using Microsoft Windows Media PlayerTM.

VI. Electronic Trade and Bank Records

When producing electronic trade records, bank records, or financial statements, provide the files in one of the following formats:

- 1. MS Excel spreadsheet with header information detailing the field structure. If any special codes exist in the dataset, a separate document must be provided that details all such codes. If details of the field structure do not fit in the header, a separate document must be provided that includes such details.
- 2. Delimited text file with header information detailing the field structure. The preferred delimiter is a vertical bar "|". If any special codes exist in the dataset, a separate document must be provided that details all such codes. If details of the field structure do not fit in the header, a separate document must be provided that includes such details.

VII. Electronic Phone Records

When producing an MS Excel spreadsheet for electronic phone records, provide the files in the following format:

- 1. MS Excel spreadsheet with header information detailing the field structure. If any special codes exist in the dataset, a separate document must be provided that details all such codes. If details of the field structure do not fit in the header, a separate document must be provided that includes such details. Data must be formatted in its native format (i.e. dates in a date format, numbers in an appropriate numerical format, and numbers with leading zeroes as text).
 - a. The metadata that must be included is outlined in **Addendum B** of this document. Each field of data must be loaded into a separate column. For example, Date and Start_Time must be produced in separate columns and not combined into a single column containing both pieces of information. Any fields of data that are provided in addition to those listed in **Addendum B** must also be loaded into separate columns.

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Data Delivery Standards

VIII. Audit Workpapers

The SEC prefers for workpapers to be produced in two formats: (1) With Bates numbers in accordance with the SEC Data Delivery Standards; and (2) in native format via laptop computer, web-based viewing platform, or otherwise, allowing for viewing in the same format and organization as the firm's audit team. Prior to production of workpapers via laptop computer or web-based viewing platform, audit firms should contact the requesting SEC staff member for additional information and written agreements addressing use of software, access, and viewing protocols.

IX. Mobile Device Data

Before producing any mobile device data (including but not limited to text messages and application data) parties should reach out to the requesting SEC staff member in order to discuss the appropriate production format. Productions containing chat data from applications must be identified at the time of production and the following information must be provided to the requesting SEC staff member and the SEC Centralized Production Unit: chat application, chat data format, and how the length of a chat is determined (i.e. set duration of time, number of minutes without messages, etc.)

ADDENDUM A

The metadata of electronic document collections should be extracted and provided in a .DAT file using the field definition and formatting described below:

Field Name	Sample Data	Description		
FIRSTBATES	EDC0000001	First Bates number of native file document/email		
LASTBATES	EDC0000001	Last Bates number of native file document/email		
		**The LASTBATES field should be populated		
		for single page documents/emails.		
ATTACHRANGE	EDC0000001 - EDC0000015	Bates number of the first page of the parent		
		document to the Bates number of the last page of the		
		last attachment "child" document		
BEGATTACH	EDC0000001	First Bates number of attachment range		
ENDATTACH	EDC0000015	Last Bates number of attachment range		
PARENT_BATES	EDC0000001	First Bates number of parent document/Email **This PARENT_BATES field should be populated		
		in each record representing an attachment "child"		
		document		
CHILD BATES	EDC0000002; EDC0000014	First Bates number of "child" attachment(s); can be		
		more than one Bates number listed depending on the		
		number of attachments		
		**The CHILD BATES field should be populated in		
		each record representing a "parent" document		
CUSTODIAN	Smith, John	Email: Mailbox where the email resided		
		Native: Name of the individual or department from		
		whose files the document originated		
FROM	John Smith	Email: Sender		
		Native: Author(s) of document		
		**semi-colon should be used to separate multiple		
		entries		
TO	Coffman, Janice; LeeW	Recipient(s)		
	[mailto:LecW@MSN.com]	**semi-colon should be used to separate multiple		
		entries		
CC	Frank Thompson [mailto:	Carbon copy recipient(s)		
	frank_Thompson@cdt.com]	**semi-colon should be used to separate multiple		
D.C.C.		entries		
BCC	John Cain	Blind carbon copy recipient(s)		
		**semi-colon should be used to separate multiple		
SUBJECT	Board Meeting Minutes	entries Email: Subject line of the email		
SUBJECT	Board Meeting Minutes	Native: Title of document (if available)		
FILE_NAME	BoardMeetingMinutes.docx	Native: Name of the original native file, including		
TILE_INVINE	Board.Meeting.Willules.docx	extension		
DATE SENT	10/12/2010	Email: Date the email was sent		
DATE SERVE	10/12/2010	Native: (empty)		
TIME SENT/TIME	07:05 PM GMT	Email: Time the email was sent/ Time zone in which		
ZONE		the emails were standardized during conversion.		
		Native: (empty)		
		**This data must be a separate field and cannot be		
		combined with the DATE_SENT field		
TIME_ZONE	GMT	The time zone in which the emails were standardized		
		during conversion.		
		Email: Time zone		
		Native: (empty)		
	·			

LINK	D:\001\EDC0000001.msg	Hyperlink to the email or native file document **The linked file must be named per the FIRSTBATES number	
MIME_TYPE	application/msword	The content type of an email or native file document as identified/extracted from the header	
FILE_EXTEN	MSG	The file type extension representing the email or native file document; will vary depending on the format	
AUTHOR	John Smith Email: (empty) Native: Author of the document		
LAST_AUTHOR	Jane Doe	Email: (empty) Native: Last Author of the document	
DATE_CREATED	10/10/2010	Email: (empty) Native: Date the document was created	
TIME_CREATED/T IME_ZONE	10:25 AM GMT	Email: (empty) Native: Time the document was created including time zone **This data must be a separate field and cannot be combined with the DATE_CREATED field	
DATE_MOD	10/12/2010	Email: (empty) Native: Date the document was last modified	
TIME_MOD/TIME_ ZONE	07:00 PM GMT	Email: (empty) Native: Time the document was last modified including the time zone **This data must be a separate field and cannot be combined with the DATE_MOD field	
DATE_ACCESSD	10/12/2010	Email: (empty) Native: Date the document was last accessed	
TIME_ACCESSD/T IME_ZONE	07:00 PM GMT	Email: (empty) Native: Time the document was last accessed including the time zone **This data must be a separate field and cannot be combined with the DATE_ACCESSD field	
PRINTED_DATE	10/12/2010	Email: (empty) Native: Date the document was last printed	
FILE_SIZE	5,952	Size of native file document/email in KB	
PGCOUNT	1	Number of pages in native file document/email	
PATH	J:\Shared\SmithJ\October Agenda.doc	Email: (empty) Native: Path where native file document was stored including original file name.	
INTFILEPATH	Personal Folders\Deleted Items\Board Meeting Minutes.msg	Email: original location of email including original file name. Native: (empty)	
INTMSGID	<000805c2c71bS75977050Scb 8306d1@MSN>	Email: Unique Message ID Native: (empty)	

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HEADER	Return-Path: <example_from@dc.edu> X-SpamCatcher-Score:1[X] Received:from[136.167.40.119] (HELO dc.edu) by fe3.dc.edu (CommuniGate Pro SMTP4.1.8) with ESMTP-TLS id 61258719 for example_to@mail.dc.edu; Mon, 23 Aug 2004 11:40:10 - 0400 Message-ID: <<4129F3CA.2020509@dc.edu> Date: Mon, 23 Aug 2005 11:40:36 -400 From: Taylor Evans <example_from@dc.edu> User-Agent:Mozilla/5.0 (Windows;U; Windows NT 5.1: en-US;rv:1.0.1) Gecko/20020823 Netscape/7.0 X-Accept-Language:en-us,en MIME-Version:1.0 To: Jon Smith <example_to@mail.dc.edu> Subject:Business Development Meeting Content-Type: text/plain;charset=us-ascii; format=flowed Content-Transfer-Encoding:7bit</example_to@mail.dc.edu></example_from@dc.edu></example_from@dc.edu>	
SHA256	AD6128C5CA40164AF71A1E FC800E12D2F195CE07BB5F8 C813B0888A2DDE6A06F	SHA-256 hash value of the document.
OCRPATH	TEXT/001/EDC0000001.txt	Path to extracted text of the native file

Sample Image Cross-Reference File:

IMG0000001,,E:\001\IMG0000001.TIF,Y,,,
IMG0000002,,E:\001\IMG0000002.TIF,,,,
IMG0000003,,E:\001\IMG0000003.TIF,,,,
IMG0000004,,E:\001\IMG0000005.TIF,Y,,,
IMG0000005,,E:\001\IMG0000005.TIF,Y,,,
IMG0000006,,E:\001\IMG0000006.TIF,,,,,

ADDENDUM B

For Electronic Phone Records, include the following fields in separate columns:

For Calls:

- 1) Account Number
- 2) Connection Date Date the call was received or made
- 3) Connection Time Time call was received or made
- 4) Seizure Time Time it took for the call to be placed in seconds
- 5) Originating Number Phone that placed the call
- 6) Terminating Number Phone that received the call
- 7) Elapsed Time The length of time the call lasted, preferably in seconds
- 8) End Time The time the call ended
- 9) Number Dialed Actual number dialed
- 10) IMEI Originating Unique id to phone used to make call
- 11) IMEI Terminating-Unique id to phone used to receive call
- 12) IMSI Originating Unique id to phone used to make call
- 13) IMSI Terminating- Unique id to phone used to receive call
- 14) Call Codes Identify call direction or other routing information
- 15) Time Zone Time Zone in which the call was received or placed, if applicable

For Text messages:

- 1) Account Number
- 2) Connection Date Date the text was received or made
- 3) Connection Time Time text was received or made
- 4) Originating Number Who placed the text
- 5) Terminating Number Who received the text
- 6) IMEI Originating Unique id to phone used to make text
- 7) IMEI Terminating—Unique id to phone used to receive text
- 8) IMSI Originating Unique id to phone used to make text
- 9) IMSI Terminating- Unique id to phone used to receive text
- 10) Text Code Identify text direction, or other text routing information
- 11) Text Type Code Type of text message (sent SMS, MMS, or other)
- 12) Time Zone Time Zone in which the call was received or placed, if applicable

For Mobile Data Usage:

- 1) Account Number
- 2) Connection Date Date the data was received or made
- 3) Connection Time Time data was received or made
- 4) Originating number Number that used data
- 5) IMEI Originating Unique id of phone that used data
- 6) IMSI Originating Unique id of phone that used data
- 7) Data or Data codes Identify data direction, or other data routing information
- 8) Time Zone Time Zone in which the call was received or placed, if applicable

SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549

Supplemental Information for Persons Requested to Supply Information Voluntarily or Directed to Supply Information Pursuant to a Commission Subpoena

A. False Statements and Documents

Section 1001 of Title 18 of the United States Code provides that fines and terms of imprisonment may be imposed upon:

[W]hoever, in any matter within the jurisdiction of the executive, legislative, or judicial branch of the Government of the United States, knowingly and willfully--

- (1) falsifies, conceals, or covers up by any trick, scheme, or device a material fact;
- (2) makes any materially false, fictitious, or fraudulent statement or representation; or
- (3) makes or uses any false writing or document knowing the same to contain any materially false, fictitious, or fraudulent statement or entry.

Section 1519 of Title 18 of the United States Code provides that fines and terms of imprisonment may be imposed upon:

Whoever knowingly alters, destroys, mutilates, conceals, covers up, falsifies, or makes a false entry in any record, document, or tangible object with the intent to impede, obstruct, or influence the investigation or proper administration of any matter within the jurisdiction of any department or agency of the United States . . ., or in relation to or contemplation of any such matter.

B. Testimony

If your testimony is taken, you should be aware of the following:

- 1. Record. Your testimony will be transcribed by a reporter. If you desire to go off the record, please indicate this to the Commission employee taking your testimony, who will determine whether to grant your request. The reporter will not go off the record at your, or your counsel's, direction.
- 2. Counsel. You have the right to be accompanied, represented and advised by counsel of your choice. Your counsel may advise you before, during and after your testimony; question you briefly at the conclusion of your testimony to clarify any of the answers you give during testimony; and make summary notes during your testimony solely for your use. If you are accompanied by counsel, you may consult privately.

If you are not accompanied by counsel, please advise the Commission employee taking your testimony if, during the testimony, you desire to be accompanied, represented and advised by counsel. Your testimony will be adjourned once to afford you the opportunity to arrange to be so accompanied, represented or advised.

You may be represented by counsel who also represents other persons involved in the Commission's investigation. This multiple representation, however, presents a potential conflict of interest if one client's interests are or may be adverse to another's. If you are represented by counsel who also represents other persons involved in the investigation, the Commission will assume that you and counsel have discussed and resolved all issues concerning possible conflicts of interest. The choice of counsel, and the responsibility for that choice, is yours.

3. Transcript Availability. Rule 6 of the Commission's Rules Relating to Investigations, 17 CFR 203.6, states:

A person who has submitted documentary evidence or testimony in a formal investigative proceeding shall be entitled, upon written request, to procure a copy of his documentary evidence or a transcript of his testimony on payment of the appropriate fees: *Provided, however*, That in a nonpublic formal investigative proceeding the Commission may for good cause deny such request. In any event, any witness, upon proper identification, shall have the right to inspect the official transcript of the witness' own testimony.

If you wish to purchase a copy of the transcript of your testimony, the reporter will provide you with a copy of the appropriate form. Persons requested to supply information voluntarily will be allowed the rights provided by this rule.

4. *Perjury.* Section 1621 of Title 18 of the United States Code provides that fines and terms of imprisonment may be imposed upon:

Whoever--

(1) having taken an oath before a competent tribunal, officer, or person, in any case in which a law of the United States authorizes an oath to be administered, that he will testify, declare,

depose, or certify truly, or that any written testimony, declaration, deposition, or certificate by him subscribed, is true, willfully and contrary to such oath states or subscribes any material matter which he does not believe to be true; or

- (2) in any declaration, certificate, verification, or statement under penalty of perjury as permitted under section 1746 of title 28, United States Code, willfully subscribes as true any material matter which he does not believe to be true.
- 5. Fifth Amendment and Voluntary Testimony. Information you give may be used against you in any federal, state, local or foreign administrative, civil or criminal proceeding brought by the Commission or any other agency.

You may refuse, in accordance with the rights guaranteed to you by the Fifth Amendment to the Constitution of the United States, to give any information that may tend to incriminate you.

If your testimony is not pursuant to subpoena, your appearance to testify is voluntary, you need not answer any question, and you may leave whenever you wish. Your cooperation is, however, appreciated.

6. Formal Order Availability. If the Commission has issued a formal order of investigation, it will be shown to you during your testimony, at your request. If you desire a copy of the formal order, please make your request in writing.

C. Submissions and Settlements

Rule 5(c) of the Commission's Rules on Informal and Other Procedures. 17 CFR 202.5(c), states:

Persons who become involved in . . . investigations may, on their own initiative, submit a written statement to the Commission setting forth their interests and position in regard to the subject matter of the investigation. Upon request, the staff, in its discretion, may advise such persons of the general nature of the investigation, including the indicated violations as they pertain to them, and the amount of time that may be available for preparing and submitting a statement prior to the presentation of a staff recommendation to the Commission for the commencement of an administrative or injunction proceeding. Submissions by interested persons should be forwarded to the appropriate Division Director or Regional Director with a copy to the staff members conducting the investigation and should be clearly referenced to the specific investigation to which they relate. In the event a recommendation for the commencement of an enforcement proceeding is presented by the staff, any submissions by interested persons will be forwarded to the Commission in conjunction with the staff memorandum.

The staff of the Commission routinely seeks to introduce submissions made pursuant to Rule 5(c) as evidence in Commission enforcement proceedings, when the staff deems appropriate.

Rule 5(f) of the Commission's Rules on Informal and Other Procedures, 17 CFR 202.5(f), states:

In the course of the Commission's investigations, civil lawsuits, and administrative proceedings, the staff, with appropriate authorization, may discuss with persons involved the disposition of such matters by consent, by settlement, or in some other manner. It is the policy of the Commission, however, that the disposition of any such matter may not, expressly or impliedly, extend to any criminal charges that have been, or may be, brought against any such person or any recommendation with respect thereto. Accordingly, any person involved in an enforcement matter before the Commission who consents, or agrees to consent, to any judgment or order does so solely for the purpose of resolving the claims against him in that investigative, civil, or administrative matter and not for the purpose of resolving any criminal charges that have been, or might be, brought against him. This policy reflects the fact that neither the Commission nor its staff has the authority or responsibility for instituting, conducting, settling, or otherwise disposing of criminal proceedings. That authority and responsibility are vested in the Attorney General and representatives of the Department of Justice.

D. Freedom of Information Act

The Freedom of Information Act, 5 U.S.C. 552 (the "FOIA"), generally provides for disclosure of information to the public. Rule 83 of the Commission's Rules on Information and Requests, 17 CFR 200.83, provides a procedure by which a person can make a written request that information submitted to the Commission not be disclosed under the FOIA. That rule states that no determination as to the validity of such a request will be made until a request for disclosure of the information under the FOIA is received. Accordingly, no response to a request that information not be disclosed under the FOIA is necessary or will be given until a request for disclosure under the FOIA is received. If you desire an acknowledgment of receipt of your written request that information not be disclosed under the FOIA, please provide a duplicate request, together with a stamped, self-addressed envelope.

E. Authority for Solicitation of Information

Persons Directed to Supply Information Pursuant to Subpoena. The authority for requiring production of information is set forth in the subpoena. Disclosure of the information to the Commission is mandatory, subject to the valid assertion of any legal right or privilege you might have.

Persons Requested to Supply Information Voluntarily. One or more of the following provisions authorizes the Commission to solicit the information requested: Sections 19 and/or 20 of the Securities Act of 1933; Section 21 of the Securities Exchange Act of 1934; Section 321 of the Trust Indenture Act of 1939; Section 42 of the Investment Company Act of 1940; Section 209 of the Investment Advisers Act of 1940; and 17 CFR 202.5. Disclosure of the requested information to the Commission is voluntary on your part.

F. Effect of Not Supplying Information

Persons Directed to Supply Information Pursuant to Subpoena. If you fail to comply with the subpoena, the Commission may seek a court order requiring you to do so. If such an order is obtained and you thereafter fail to supply the information, you may be subject to civil and/or criminal sanctions for contempt of court. In addition, Section 21(c) of the Securities Exchange Act of 1934, Section 42(c) of the Investment Company Act of 1940, and Section 209(c) of the Investment Advisers Act of 1940 provide that fines and terms of imprisonment may be imposed upon any person who shall, without just cause, fail or refuse to attend and testify or to answer any lawful inquiry, or to produce books, papers, correspondence, memoranda, and other records in compliance with the subpoena.

Persons Requested to Supply Information Voluntarily. There are no direct sanctions and thus no direct effects for failing to provide all or any part of the requested information.

G. Principal Uses of Information

The Commission's principal purpose in soliciting the information is to gather facts in order to determine whether any person has violated, is violating, or is about to violate any provision of the federal securities laws or rules for which the Commission has enforcement authority, such as rules of securities exchanges and the rules of the Municipal Securities Rulemaking Board. Facts developed may, however, constitute violations of other laws or rules. Information provided may be used in Commission and other agency enforcement proceedings. Unless the Commission or its staff explicitly agrees to the contrary in writing, you should not assume that the Commission or its staff acquiesces in, accedes to, or concurs or agrees with, any position, condition, request, reservation of right, understanding, or any other statement that purports, or may be deemed, to be or to reflect a limitation upon the Commission's receipt, use, disposition, transfer, or retention, in accordance with applicable law, of information provided.

H. Routine Uses of Information

The Commission often makes its files available to other governmental agencies, particularly United States Attorneys and state prosecutors. There is a likelihood that information supplied by you will be made available to such agencies where appropriate. Whether or not the Commission makes its files available to other governmental agencies is, in general, a confidential matter between the Commission and such other governmental agencies.

Set forth below is a list of the routine uses which may be made of the information furnished.

- 1. To appropriate agencies, entities, and persons when (1) the SEC suspects or has confirmed that there has been a breach of the system of records, (2) the SEC has determined that as a result of the suspected or confirmed breach there is a risk of harm to individuals, the SEC (including its information systems, programs, and operations), the Federal Government, or national security; and (3) the disclosure made to such agencies, entities, and persons is reasonably necessary to assist in connection with the SEC's efforts to respond to the suspected or confirmed breach or to prevent, minimize, or remedy such harm.
- 2. To other Federal, state, local, or foreign law enforcement agencies; securities self-regulatory organizations; and foreign financial regulatory authorities to assist in or coordinate regulatory or law enforcement activities with the SEC.
- 3. To national securities exchanges and national securities associations that are registered with the SEC, the Municipal Securities Rulemaking Board; the Securities Investor Protection Corporation; the Public Company Accounting Oversight Board; the Federal banking authorities, including, but not limited to, the Board of Governors of the Federal Reserve System, the Comptroller of the Currency, and the Federal Deposit Insurance Corporation; state securities regulatory agencies or organizations; or regulatory authorities of a foreign government in connection with their regulatory or enforcement responsibilities.
- 4. By SEC personnel for purposes of investigating possible violations of, or to conduct investigations authorized by, the Federal securities laws.
- 5. In any proceeding where the Federal securities laws are in issue or in which the Commission, or past or present members of its staff, is a party or otherwise involved in an official capacity.
- 6. In connection with proceedings by the Commission pursuant to Rule 102(e) of its Rules of Practice, 17 CFR 201.102(e).

- 7. To a bar association, state accountancy board, or other Federal, state, local, or foreign licensing or oversight authority; or professional association or self-regulatory authority to the extent that it performs similar functions (including the Public Company Accounting Oversight Board) for investigations or possible disciplinary action.
- 8. To a Federal, state, local, tribal, foreign, or international agency, if necessary to obtain information relevant to the SEC's decision concerning the hiring or retention of an employee; the issuance of a security clearance; the letting of a contract; or the issuance of a license, grant, or other benefit.
- 9. To a Federal, state, local, tribal, foreign, or international agency in response to its request for information concerning the hiring or retention of an employee; the issuance of a security clearance; the reporting of an investigation of an employee; the letting of a contract; or the issuance of a license, grant, or other benefit by the requesting agency, to the extent that the information is relevant and necessary to the requesting agency's decision on the matter.
- 10. To produce summary descriptive statistics and analytical studies, as a data source for management information, in support of the function for which the records are collected and maintained or for related personnel management functions or manpower studies; may also be used to respond to general requests for statistical information (without personal identification of individuals) under the Freedom of Information Act.
- 11. To any trustee, receiver, master, special counsel, or other individual or entity that is appointed by a court of competent jurisdiction, or as a result of an agreement between the parties in connection with litigation or administrative proceedings involving allegations of violations of the Federal securities laws (as defined in section 3(a)(47) of the Securities Exchange Act of 1934, 15 U.S.C. 78c(a)(47)) or pursuant to the Commission's Rules of Practice, 17 CFR 201.100 through 900 or the Commission's Rules of Fair Fund and Disgorgement Plans, 17 CFR 201.1100 through 1106, or otherwise, where such trustee, receiver, master, special counsel, or other individual or entity is specifically designated to perform particular functions with respect to, or as a result of, the pending action or proceeding or in connection with the administration and enforcement by the Commission of the Federal securities laws or the Commission's Rules of Practice or the Rules of Fair Fund and Disgorgement Plans.
- 12. To any persons during the course of any inquiry, examination, or investigation conducted by the SEC's staff, or in connection with civil litigation, if the staff has reason to believe that the person to whom the record is disclosed may have further information about the matters related therein, and those matters appeared to be relevant at the time to the subject matter of the inquiry.
- 13. To interns, grantees, experts, contractors, and others who have been engaged by the Commission to assist in the performance of a service related to this system of records and who need access to the records for the purpose of assisting the Commission in the efficient administration of its programs, including by performing clerical, stenographic, or data analysis functions, or by reproduction of records by electronic or other means. Recipients of these records shall be required to comply with the requirements of the Privacy Act of 1974, as amended, 5 U.S.C.
- 14. In reports published by the Commission pursuant to authority granted in the Federal securities laws (as such term is defined in section 3(a)(47) of the Securities Exchange Act of 1934, 15 U.S.C. 78c(a)(47)), which authority shall include, but not be limited to, section 21(a) of the Securities Exchange Act of 1934, 15 U.S.C. 78u(a)).
- 15. To members of advisory committees that are created by the Commission or by Congress to render advice and recommendations to the Commission or to Congress, to be used solely in connection with their official designated functions.
- 16. To any person who is or has agreed to be subject to the Commission's Rules of Conduct, 17 CFR 200.735-1 through 200.735-18, and who assists in the investigation by the Commission of possible violations of the Federal securities laws (as such term is defined in section 3(a)(47) of the Securities Exchange Act of 1934, 15 U.S.C. 78c(a)(47)), in the preparation or conduct of enforcement actions brought by the Commission for such violations, or otherwise in connection with the Commission's enforcement or regulatory functions under the Federal securities laws.
- 17. To a Congressional office from the record of an individual in response to an inquiry from the Congressional office made at the request of that individual.
- 18. To members of Congress, the press, and the public in response to inquiries relating to particular Registrants and their activities, and other matters under the Commission's jurisdiction.
- 19. To prepare and publish information relating to violations of the Federal securities laws as provided in 15 U.S.C. 78c(a)(47)), as amended.
- 20. To respond to subpoenas in any litigation or other proceeding.
- 21. To a trustee in bankruptcy.
- 22. To any governmental agency, governmental or private collection agent, consumer reporting agency or commercial reporting agency, governmental or private employer of a debtor, or any other person, for collection,

including collection by administrative offset, Federal salary offset, tax refund offset, or administrative wage garnishment, of amounts owed as a result of Commission civil or administrative proceedings.

23. To another Federal agency or Federal entity, when the SEC determines that information from this system of records is reasonably necessary to assist the recipient agency or entity in (1) responding to a suspected or confirmed breach or (2) preventing, minimizing, or remedying the risk of harm to individuals, the recipient agency or entity (including its information systems, programs, and operations), the Federal Government, or national security, resulting from a suspected or confirmed breach.

Page 735 of 933

* * * * *

Small Business Owners: The SEC always welcomes comments on how it can better assist small businesses. If you would like more information, or have questions or comments about federal securities regulations as they affect small businesses, please contact the Office of Small Business Policy, in the SEC's Division of Corporation Finance, at 202-551-3460. If you would prefer to comment to someone outside of the SEC, you can contact the Small Business Regulatory Enforcement Ombudsman at http://www.sba.gov/ombudsman or toll free at 888-REG-FAIR. The Ombudsman's office receives comments from small businesses and annually evaluates federal agency enforcement activities for their responsiveness to the special needs of small business.

To: $\begin{array}{ll} mkaplan@gusraekaplan.com[mkaplan@gusraekaplan.com] \\ \hline {\tiny (b)(6); (b)(7)(6)} & 1.24-cv_{ps} & 2.3cv_{ps} & 3.26-cv_{ps} & 3.26-cv_{ps$ Filed 8266435; (D) (B) AQ (B) (C) 36 of 933 Cc: psec.gov] From: (b)(6); (b)(7)(C) 2024-02-27T23:21:55Z Sent:

SMAIL C-08950 Prometheum, Inc. Subpoena Subject: Received: 2024-02-27T23:22:00Z

C-8950 Prometheum Inc. Subpoena.pdf

Dear Mr. Kaplan:

Please see the attached document subpoena.

Thank you, (b)(6); /h)/7)/

(b)(6); (b)(7)(C)

(b)(6); Division of Enforcement

U.S. Securities and Exchange Commission 100 Pearl Street, Suite 20-100

New York, NY 10004

OFFICE (b)(6); (b)(7)(C)

MOBILE

(b)(6): Psec.gov



UNITED STATES SECURITIES AND EXCHANGE COMMISSION

100 PEARL STREET, SUITE 20-100 NEW YORK, NY 10004-2616

DIVISION OF ENFORCEMENT

February 27, 2024

VIA SECURE EMAIL

Prometheum, Inc. c/o Martin H. Kaplan Gusrae Kaplan Nusbaum PLLC 120 Wall Street, Floor 25 New York, NY 10005 mkaplan@gusraekaplan.com

Re: C-08950

Dear Mr. Kaplan:

The enclosed subpoena has been issued pursuant to a formal order entered by the United States Securities and Exchange Commission. Pursuant to Rule 8 of the United States Securities and Exchange Commission's Rules Relating to Investigations, 17 C.F.R. § 203.8, I have enclosed a subpoena for documents issued to Prometheum, Inc. ("Prometheum") in connection with the above-referenced investigation.

The enclosed subpoena requires Prometheum to produce documents to the SEC by March 12, 2024 to:

ENF-CPU U.S. Securities and Exchange Commission 14420 Albemarle Point Place, Suite 102 Chantilly, VA 20151-1750

For smaller electronic productions under 10MB in size, the materials may be emailed to the following email address: ENF-CPU@scc.gov.

Please also provide a duplicate	e copy of any	document pr	roduction cover	letters to me at
(b)(6), (b)(7)(C) (a) sec. gov, $(b)(6), (b)(7)(C)$ a	ıt ^{(b)(6); (b)(7)(C)} [sec.gov (b)(6); (b)(7)(C)	at
(b)(6); (b)(7)(C) (c)sec.gov, and (b)(6); (b)(7)(C)	at (b)(6);	ŷsec.gov.	Additionally, p	olease include the
SEC matter number and the name of t	the requesting	attorney wh	en responding.	

Please carefully read the subpoena attachment, which contains, among other things, important instructions related to the manner of producing documents. In particular, if Prometheum prefers to send us copies of original documents, the staff requests that you scan and produce hard copy documents, as well as electronic documents, in an electronic format consistent with the SEC Data Delivery Standards attached hereto. All electronic documents responsive to the subpoena, including all metadata, should also be produced in their native software format. If you have any questions concerning the production of documents in an electronic format, please contact me as soon as possible and in any event before producing documents. For security reasons, we strongly encourage the encryption of sensitive documents before production.

When producing the records, please consecutively number and mark each document produced with a symbol that identifies it as being produced by Prometheum and provide an index which briefly identifies the documents produced.

In your cover letter(s) accompanying the production of responsive documents, please enclose a list briefly describing each item you send. The list should identify the paragraph(s) in the subpoena attachment to which each item responds. Please also state in the cover letter(s) whether you believe Prometheum has met the obligations of the subpoena by searching carefully and thoroughly for everything called for by the subpoena and sending it all to us.

A copy of the subpoena should be included with the documents that are produced. Correspondence should reference case number and requesting SEC staff member.

Passwords for documents, files, compressed archives, and encrypted media should be provided separately either via email addressed to ENF-CPU@sec.gov, or in a separate cover letter mailed separately from the data. Password correspondence should reference case number and requesting SEC staff member.

In addition, for any documents that qualify as records of regularly conducted activities under Federal Rule of Evidence 902(11), please have the appropriate representative(s) of Prometheum complete a business records certification (a sample of which is enclosed) and return it with the document production. Execution of this certification may allow the Commission to introduce the documents provided by Prometheum in any subsequent judicial proceeding, without requiring the testimony of a records custodian.

Enclosed is a copy of the Commission's Form 1662, entitled "Supplemental Information for Persons Requested to Supply Information Voluntarily or Directed to Supply Information Pursuant to a Commission Subpoena." This form explains how we may use the information which Prometheum provides to the Commission and has other important information.

This investigation is a non-public, fact-finding inquiry. We are trying to determine whether there have been any violations of the federal securities laws. The investigation does not mean that we have concluded that anyone has violated the law. Also, the investigation does not mean that we have a negative opinion of any person, entity, or security.

If you have any questions or would like to discuss this matter, you may contact me at (b)(6); (b)(7)(C)

Sincerely,	
(b)(6); (b)(7)(C)	
Division of Enforcement	_
(b)(6); (b)(7)(C)	
(b)(6); (b)(7)(C) <i>v</i> sec.gov	

Enclosures: Subpoena and Attachment

Business Records Certification SEC Data Delivery Standards

SEC Form 1662



SUBPOENA

UNITED STATES OF AMERICA SECURITIES AND EXCHANGE COMMISSION

C-08950

To: Prometheum, Inc. c/o Martin H. Kaplan Gusrae Kaplan Nusbaum PLLC 120 Wall Street, Floor 25 New York, NY 10005

YOU MUST PRODUCE everything specified in the Attachment to this subpoena to officers of the Securities and Exchange Commission, at the place, date and time specified below:

ENF-CPU, U.S. Securities and Exchange Commission, 14420 Albemarle Point Place, Suite 102 Chantilly, VA 20151-1750, no later than March 12, 2024.

YOU MUST TESTIFY before officers of the Securities and Exchange Commission, at the place, date and time specified below:

FEDERAL LAW REQUIRES YOU TO COMPLY WITH THIS SUBPOENA.

If you do not comply with this subpoena, the SEC may bring an action in Federal Court to enforce this subpoena. Failure to comply with a court order enforcing this subpoena may result in the court imposing a fine, imprisonment, or both.

By: (b)(6); (b)(7)(C) Date: February 27, 2024

U.S. Securities and Exchange Commission New York Regional Office 100 Pearl Street, Suite 20-100 New York, NY 10004-2616

I am an officer of the U.S. Securities and Exchange Commission authorized to issue subpoenas in this matter. The Securities and Exchange Commission has issued a formal order authorizing this investigation under Section 20(a) of the Securities Act of 1933.

NOTICE TO WITNESS: If you claim a witness fee or mileage, submit this subpoena with the claim voucher.

SUBPOENA ATTACHMENT FOR PROMETHEUM, INC.

C-08950

February 27, 2024

Definitions

As used in this subpoena, the words and phrases listed below shall have the following meanings:

- 1. "Prometheum, Inc." means the entity doing business under the name "Prometheum, Inc.," including parents, subsidiaries, affiliates, predecessors, successors, officers, directors, employees, agents, general partners, limited partners, partnerships and aliases, code names, or trade or business names used by any of the foregoing.
- 2. "Communication" means any correspondence, contact, discussion, e-mail, instant message, or any other kind of oral or written exchange or transmission of information (in the form of facts, ideas, inquiries, or otherwise), including but not limited to those made on Social Media Services, and any response thereto between two or more Persons or entities, including, without limitation, all telephone conversations, face-to-face meetings or conversations, internal or external discussions, or exchanges of a Document or Documents.
- 3. "Concerning" means directly or indirectly, in whole or in part, describing, constituting, evidencing, recording, evaluating, substantiating, concerning, referring to, alluding to, in connection with, commenting on, relating to, regarding, discussing, showing, analyzing or reflecting.
- 4. "ConsenSys" means the entity or business doing business under the name ConsenSys Software, Inc., including parents, subsidiaries, affiliates, predecessors, successors, officers, directors, employees, agents, general partners, limited partners, partnerships and aliases, owners, code names, or trade or business names used by any of the foregoing.
- 5. "Document" shall include, but is not limited to, any written, printed, or typed matter including, but not limited to all drafts and copies bearing notations or marks not found in the original, letters and correspondence, interoffice communications, slips, tickets, records, worksheets, financial records, accounting documents, bookkeeping documents, memoranda, reports, manuals, telephone logs, facsimiles, messages of any type, telephone messages, text messages, voice mails, tape recordings, notices, instructions, minutes, summaries, notes of meetings, file folder markings, and any other organizational indicia, purchase orders, information recorded by photographic process, including microfilm and microfiche, computer printouts, spreadsheets, and other electronically stored information, including writings, drawings, graphs, charts, photographs, sound recordings, images, and other data or data compilations that are stored in any medium from which information can be retrieved, obtained, manipulated, or translated.

- 6. "ETH" means Ether or the native crypto asset for the Ethereum blockchain and network.
- 7. "Ethereum Developers" refers to any anyone developing on the Ethereum blockchain and network, including, but not limited to, Ethereum protocol developers also known as Ethereum core developers.
- 8. The "Ethereum Foundation" means the entity or business doing business under the name "Ethereum Foundation," including, but not limited to, ethereum.org and parents, subsidiaries, affiliates, predecessors, successors, officers, directors, employees, agents, general partners, limited partners, partnerships and aliases, owners, code names, or trade or business names used by any of the foregoing.
- 9. "The Merge" or "Ethereum 2.0" means the transition by the Ethereum blockchain of its consensus mechanism from proof-of-work to proof-of-stake.
- 10. The term "You" and "Your" means the Person to whom or entity to which this subpoena was issued.
- 11. To the extent necessary to bring within the scope of this this subpoena any information or Documents that might otherwise be construed to be outside its scope:
 - a. the word "or" means "and/or";
 - b. the word "and" means "and/or";
 - c. the functional words "each," "every" "any" and "all" shall each be deemed to include each of the other functional words;
 - d. the masculine gender includes the female gender and the female gender includes the masculine gender; and
 - e. the singular includes the plural and the plural includes the singular.

Instructions

- Unless otherwise specified, this subpoena calls for production of the original Documents
 and all copies and drafts of same. Documents responsive to this subpoena may be in
 electronic or paper form. Electronic Documents such as email should be produced in
 accordance with the attached Document entitled SEC Data Delivery Standards. All
 responsive electronic Documents, including all metadata, should also be produced in their
 native software format.
- 2. For Documents in paper format, you may send the originals, or, if you prefer, you may send copies of the originals. The Commission cannot reimburse you for the copying costs. If you are sending copies, the staff requests that you scan (rather than photocopy) hard copy Documents and produce them in an electronic format consistent with the SEC Data Delivery Standards. Alternatively, you may send us photocopies of the Documents in paper format. If you choose to send copies, you <u>must</u> secure and retain the originals and store them in a safe place. The staff may later request or require that you produce the originals.

- 3. Whether you scan or photocopy Documents, the copies must be identical to the originals, including even faint marks or print. Also, please note that if copies of a Document differ in any way, they are considered separate Documents and you must send each one. For example, if you have two copies of the same letter, but only one of them has handwritten notes on it, you must send both the clean copy and the one with notes.
- 4. In producing a photocopy of an original Document that contains post-it(s), notation flag(s), or other removable markings or attachments which may conceal all or a portion of the markings contained in the original Document, photocopies of the original Document both with and without the relevant post-it(s), notation flag(s), or removable markings or attachments should be produced.
- 5. Documents should be produced as they are kept in the ordinary course of business or be organized and labeled to correspond with the categories in this request. In that regard, Documents should be produced in a unitized manner, i.e., delineated with staples or paper clips to identify the Document boundaries.
- 6. Documents should be labeled with sequential numbering (bates-stamped).
- 7. The scope of any given request should not be limited or narrowed on the basis that it calls for Documents that are responsive to another request.
- 8. This subpoena covers all Documents in or subject to your possession, custody or control, including all Documents that are not in your immediate possession but that you have the effective ability to obtain, that are responsive, in whole or in part, to any of the individual requests set forth below. If, for any reason including a claim of attorney-client privilege you do not produce something called for by the request, you should submit a list of what you are not producing. The list should describe each item separately, noting:
 - a. its author(s);
 - b. its date:
 - c. its subject matter;
 - d. the name of the Person who has the item now, or the last Person known to have it;
 - e. the names of everyone who ever had the item or a copy of it, and the names of everyone who was told the item's contents;
 - f. the basis upon which you are not producing the responsive Document;
 - g. the specific request in the subpoena to which the Document relates;
 - h. the attorney(s) and the client(s) involved; and
 - i. in the case of the work product doctrine, the litigation for which the Document was prepared in anticipation.
- 9. If Documents responsive to this subpoena no longer exist because they have been lost, discarded, or otherwise destroyed, you should identify such Documents and give the date on which they were lost, discarded, or destroyed.

Documents to be Produced

- 1. Documents and Communications Concerning any legal analysis of ETH, the Merge, or Ethereum 2.0, including, but not limited to, Communications with the Ethereum Foundation, ConsenSys, or Ethereum Developers. Please note that the above Instructions discuss the procedures for how to handle privileged documents.
- 2. Documents upon which You relied in any analysis responsive to Request No. 1 above.
- 3. Communications with any regulator or government agency in the U.S. or a foreign country Concerning ETH, the Merge, or Ethereum 2.0, including, but not limited to, Communications by attorneys or agents representing you.

DECLARATION OF [Insert Name] CERTIFYING RECORDS OF REGULARLY CONDUCTED BUSINESS ACTIVITY

I, the undersigned, [insert name], pursuant to 28 U.S.C. § 1746, declare that:

- 1. I am employed by [insert name of company] as [insert position] and by reason of my position am authorized and qualified to make this declaration. [if possible supply additional information as to how person is qualified to make declaration, e.g., I am custodian of records, I am familiar with the company's recordkeeping practices or systems, etc.]
- 2. I further certify that the documents [attached hereto or submitted herewith] and stamped [insert bates range] are true copies of records that were:
 - (a) made at or near the time of the occurrence of the matters set forth therein, by, or from information transmitted by, a person with knowledge of those matters;
 - (b) kept in the course of regularly conducted business activity; and
 - (c) made by the regularly conducted business activity as a regular practice.

I declare under penalty of perjury that the foregoing is true and correct. Executed on [date].

_	[Name]	



U.S. Securities and Exchange Commission

Data Delivery Standards

This document describes the technical requirements for paper and electronic document productions to the U.S. Securities and Exchange Commission (SEC). **Any questions or proposed file formats other than those described below must be discussed with the legal and technical staff of the SEC Division of Enforcement prior to submission. **

JÇ	cheral tristructions	1
Dε	elivery Formats	2
	I. Imaged Productions	3
	I. Imaged Productions	2
	2. Image Cross-Reference File	
	3. Data File	3
	4. Text	
	5. Linked Native Files	
	II. Native File Productions without Load Files	
	III. Adobe PDF File Productions	
	IV. Audio Files V. Video Files	
	VI. Electronic Trade and Bank Records	
	VII. Electronic Phone Records	
	VIII. Audit Workpapers	. 5
	IX. Mobile Device Data	5

General Instructions

Congred Instructions

The current mailing address for all physical productions sent to the SEC is:

ENF-CPU (U.S. Securities & Exchange Commission), 14420 Albemarle Point Place, Suite 102, Chantilly, VA 20151-1750

Electronic files must be produced in their native format, i.e. the format in which they are ordinarily used and maintained during the normal course of business. For example, an MS Excel file must be produced as an MS Excel file rather than an image of a spreadsheet. (Note: An Adobe PDF file is not considered a native file unless the document was initially created as a PDF.)

In the event produced files require the use of proprietary software not commonly found in the workplace, the SEC will explore other format options with the producing party.

The proposed use of file de-duplication methodologies or computer-assisted review or technology-assisted review (TAR) during the processing of documents must be discussed with and approved by the legal and technical staff of the Division of Enforcement (ENF). If your production will be de-duplicated it is vital that you 1) preserve any unique metadata associated with the duplicate files, for example, custodian name and file location and, 2) make that unique metadata part of your production to the SEC.

General requirements for ALL document productions are:

- 1. A cover letter must be included with each production and should include the following information:
 - Case number, case name and requesting SEC staff member name
 - b. A list of each piece of media included in the production with its unique production volume number
 - c. A list of custodians, identifying the Bates range for each custodian
 - d. A list of redacted documents and the redaction reason
 - c. The time zone in which the emails were standardized during conversion
 - f. Whether the production contains native files produced from Mac operating system environments
- Data can be produced on CD, DVD, thumb drive, etc., using the media requiring the least number of deliverables and labeled with the following:
 - a. Case number
 - b. Production date
 - c. Producing party
 - d. Bates range (if applicable)
- All submissions must be organized by custodian unless otherwise instructed.
- All document family groups, i.e. email attachments, embedded files, etc., should be produced together and children files should follow parent files sequentially in the Bates numbering.
- All load-ready collections should include only one data load file and one image pointer file.
- All load-ready text must be produced as separate document-level text files.
- All load-ready collections should account for custodians in the custodian field.
- 8. All load-ready collections must provide the extracted contents of any container files to ensure all relevant files are produced as separate records.
- Audio files should be separated from data files if both are included in the production.
- 10. Only alphanumeric characters and the underscore character are permitted in file names and folder names. Special characters are not permitted.
- 11. All electronic productions submitted on media must be produced using industry standard self-extracting encryption software.
- 12. The SEC uses 7zip to access compressed files. Note that the SEC cannot accept files that use AES-256 Jpeg or pkAES-256-Cert Deflate compression methods, even if the files are created with 7zip. If you have any questions or need additional information, please reach out to the requesting SEC staff member.
- 13. Electronic productions of 30 GB or less are strongly encouraged to be submitted via Secure File Transfer. All Secure File Transfers should be sent to the SEC Centralized Production Unit (ENF-CPU@sec.gov) with a CC to the requesting SEC staff member. If you do not have your own Secure File Transfer application, you may reach out to the requesting SEC staff member for a link to the SEC system in order to upload your production. If using the SEC Secure File Transfer system, you will NOT be able to CC individuals outside the SEC on your upload transmission. Note that the SEC cannot accept productions made using file sharing sites such as Google Drive or Microsoft Office 365.
- 14. Productions containing BSA or SAR material must be encrypted. Secure File Transfer applications may be used to produce BSA or SAR material. BSA or SAR material should be segregated and appropriately marked as BSA or SAR, or should be produced separately from other case related records.
- 15. Passwords for electronic documents, files, compressed archives and encrypted media must be provided separately either via email or in a cover letter apart from the media.
- 16. All electronic productions should be produced free of computer viruses.
- 17. Before producing forensically collected images, parties should reach out to the requesting SEC staff member in order to discuss appropriate handling.
- 18. Before producing unique data sets (large sets of relational data, website reconstruction, chat room data, etc.), parties should reach out to the requesting SEC staff member in order to discuss an appropriate production format.
- Additional technical descriptions can be found in the addendum to this document.

Please note that productions sent to the SEC via United States Postal Service are subject to Mail Irradiation, and as a result electronic productions may be damaged.

Delivery Formats

Imaged Productions

The SEC prefers that all scanned paper and electronic file collections be produced in a structured format including industry standard load files, Bates numbered image files, native files and searchable document-level text files. Bates numbers should not contain spaces. Hyphens (-) and underscores (-) are acceptable.

1. Images

- Black and white images must be 300 DPI Group IV single-page TIFF files
- b. Color images must be produced in JPEG format
- File names cannot contain embedded spaces or special characters (including the comma)
- d. Folder names cannot contain embedded spaces or special characters (including the comma)
- e. All image files must have a unique file name, i.e. Bates number
- f. Images must be endorsed with sequential Bates numbers in the lower right corner of each image
- The number of image files per folder should not exceed 2,000 files g.
- h. Excel spreadsheets should have a placeholder image named by the Bates number of the file
- AUTOCAD/photograph files should be produced as a single page JPEG file

2. Image Cross-Reference File

The image cross-reference file (LOG or .OPT) links the images to the database records. It should be a comma-delimited file consisting of seven fields per line with a line in the cross-reference file for every image in the database with the following format:

ImageID, VolumeLabel, ImageFilePath, DocumentBreak, FolderBreak, BoxBreak, PageCount

3. Data File

The data file (.DAT) contains all of the fielded information that will be loaded into the database.

- The first line of the .DAT file must be a header row identifying the field names
- The .DAT file must use the following *Concordance*® default delimiters:

Comma ¶ ASCII character (020)

Quote b ASCII character (254)

- c. If the .DAT file is produced in Unicode format it must contain the byte order marker
- d. Date fields should be provided in the format: mm/dd/yyyy
- Date and time fields must be two separate fields
- The time zone must be included in all time fields f.
- If the production includes imaged emails and attachments, the attachment fields must be included to preserve the parent/child relationship between an email and its attachments
- An OCRPATH field must be included to provide the file path and name of the extracted text file on the produced storage media. The text file must be named after the FIRSTBATES. Do not include the text in the .DAT file.
- For productions with native files, a LINK field must be included to provide the file path and name of the native file on the produced storage media. The native file must be named after the FIRSTBATES.
- BEGATTACH and ENDATTACH fields must be two separate fields
- A complete list of metadata fields is available in Addendum A to this document

4. Text

Text must be produced as separate document-level text files, not as fields within the .DAT file. The text files must be named per the FIRSTBATES/Image Key and the full path to the text file (OCRPATII) should be included in the .DAT file. Text files may be in either ANSI or Unicode format, however, ALL text files must be in the same format within the same production. Note that productions containing text with foreign characters must produce text files in Unicode format to preserve the foreign characters. Text files must be in a separate folder, and the number of text files per folder should not exceed 2,000 files. There should be no special characters (including commas) in the folder names. For redacted documents, provide the full text for the redacted version.

Linked Native Files

Copies of original email and native file documents/attachments must be included for all electronic productions.

- a. Native file documents must be named per the FIRSTBATES number
- b. The full path of the native file must be provided in the .DAT file for the LINK field
- The number of native files per folder should not exceed 2,000 files

II. Native File Production without Load Files

With prior approval, native files may be produced without load files. Native file productions should not be Bates numbered. Native files must be produced as they are maintained in the normal course of business and organized by custodian-named file folders. Native email files (.PST or .MBOX) must be separated by custodian.

III. Adobe PDF File Production

With prior approval, Adobe PDF files may be produced in native file format.

- 1. All PDFs must be unitized at the document level, i.e. each PDF must represent a discrete document.
- 2. PDF files should be produced in separate folders named by the custodian. The folders should not contain any special characters (including commas).
- 3. All PDF files must contain embedded text that includes all discernible words within the document, not selected text or image only. This requires all layers of the PDF to be flattened first.
- 4. If PDF files are Bates endorsed, the PDF files must be named by the Bates range.

IV. Audio Files

Audio files from telephone recording systems must be produced in a format that is playable using Microsoft Windows Media PlayerTM. Additionally, the call information (metadata) related to each audio recording MUST be provided. The metadata file must be produced in a delimited text format. Field names must be included in the first row of the text file. The metadata must include, at a minimum, the following fields:

1) Caller Name: Caller's name or account/identification number

2) Originating Number: Caller's phone number3) Called Party Name: Called party's name

4) Terminating Number: Called party's phone number

5) Date: Date of call
6) Time: Time of call

7) Filename: Filename of audio file

V. Video Files

Video files must be produced in a format that is playable using Microsoft Windows Media PlayerTM.

VI. Electronic Trade and Bank Records

When producing electronic trade records, bank records, or financial statements, provide the files in one of the following formats:

- 1. MS Excel spreadsheet with header information detailing the field structure. If any special codes exist in the dataset, a separate document must be provided that details all such codes. If details of the field structure do not fit in the header, a separate document must be provided that includes such details.
- 2. Delimited text file with header information detailing the field structure. The preferred delimiter is a vertical bar "|". If any special codes exist in the dataset, a separate document must be provided that details all such codes. If details of the field structure do not fit in the header, a separate document must be provided that includes such details.

VII. Electronic Phone Records

When producing an MS Excel spreadsheet for electronic phone records, provide the files in the following format:

- 1. MS Excel spreadsheet with header information detailing the field structure. If any special codes exist in the dataset, a separate document must be provided that details all such codes. If details of the field structure do not fit in the header, a separate document must be provided that includes such details. Data must be formatted in its native format (i.e. dates in a date format, numbers in an appropriate numerical format, and numbers with leading zeroes as text).
 - a. The metadata that must be included is outlined in **Addendum B** of this document. Each field of data must be loaded into a separate column. For example, Date and Start_Time must be produced in separate columns and not combined into a single column containing both pieces of information. Any fields of data that are provided in addition to those listed in **Addendum B** must also be loaded into separate columns.

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VIII. Audit Workpapers

The SEC prefers for workpapers to be produced in two formats: (1) With Bates numbers in accordance with the SEC Data Delivery Standards; and (2) in native format via laptop computer, web-based viewing platform, or otherwise, allowing for viewing in the same format and organization as the firm's audit team. Prior to production of workpapers via laptop computer or web-based viewing platform, audit firms should contact the requesting SEC staff member for additional information and written agreements addressing use of software, access, and viewing protocols.

IX. Mobile Device Data

Before producing any mobile device data (including but not limited to text messages and application data) parties should reach out to the requesting SEC staff member in order to discuss the appropriate production format. Productions containing chat data from applications must be identified at the time of production and the following information must be provided to the requesting SEC staff member and the SEC Centralized Production Unit: chat application, chat data format, and how the length of a chat is determined (i.e. set duration of time, number of minutes without messages, etc.)

ADDENDUM A

The metadata of electronic document collections should be extracted and provided in a .DAT file using the field definition and formatting described below:

Field Name	Sample Data	Description
FIRSTBATES	EDC0000001	First Bates number of native file document/email
LASTBATES	EDC0000001	Last Bates number of native file document/email
		**The LASTBATES field should be populated
		for single page documents/emails.
ATTACHRANGE	EDC0000001 - EDC0000015	Bates number of the first page of the parent
		document to the Bates number of the last page of the
		last attachment "child" document
BEGATTACH	EDC0000001	First Bates number of attachment range
ENDATTACH	EDC0000015	Last Bates number of attachment range
PARENT_BATES	EDC0000001	First Bates number of parent document/Email **This PARENT_BATES field should be populated in each record representing an attachment "child" document
CHILD BATES	EDC0000002; EDC0000014	First Bates number of "child" attachment(s); can be
_	·	more than one Bates number listed depending on the
		number of attachments
		**The CHILD_BATES field should be populated in
		each record representing a "parent" document
CUSTODIAN	Smith, John	Email: Mailbox where the email resided
		Native: Name of the individual or department from whose files the document originated
FROM	John Smith	Email: Sender
		Native: Author(s) of document
		**semi-colon should be used to separate multiple entries
TO	Coffman, Janice; LeeW	Recipient(s)
	[mailto:LeeW@MSN.com]	**semi-colon should be used to separate multiple entries
CC	Frank Thompson [mailto:	Carbon copy recipient(s)
	frank_Thompson@cdt.com]	**semi-colon should be used to separate multiple
		entries
BCC	John Cain	Blind carbon copy recipient(s)
		**semi-colon should be used to separate multiple
		entries
SUBJECT	Board Meeting Minutes	Email: Subject line of the email
		Native: Title of document (if available)
FILE_NAME	BoardMeetingMinutes.docx	Native: Name of the original native file, including
		extension
DATE_SENT	10/12/2010	Email: Date the email was sent
		Native: (empty)
TIME_SENT/TIME	07:05 PM GMT	Email: Time the email was sent/ Time zone in which
_ZONE		the emails were standardized during conversion.
		Native: (empty)
		**This data must be a separate field and cannot be
TIME ZONE	CMT	combined with the DATE_SENT field
TIME_ZONE	GMT	The time zone in which the emails were standardized
		during conversion. Email: Time zone
		Native: (empty)
		rvacivo, (empty)

LINK	D:\001\EDC0000001.msg	Hyperlink to the email or native file document **The linked file must be named per the FIRSTBATES number
MIME_TYPE	application/msword	The content type of an email or native file document as identified/extracted from the header
FILE_EXTEN	MSG	The file type extension representing the email or native file document; will vary depending on the format
AUTHOR	John Smith	Email: (empty) Native: Author of the document
LAST_AUTHOR	Jane Doe	Email: (empty) Native: Last Author of the document
DATE_CREATED	10/10/2010	Email: (empty) Native: Date the document was created
TIME_CREATED/T IME_ZONE	10:25 AM GMT	Email: (empty) Native: Time the document was created including time zone **This data must be a separate field and cannot be combined with the DATE_CREATED field
DATE_MOD	10/12/2010	Email: (empty) Native: Date the document was last modified
TIME_MOD/TIME_ ZONE	07:00 PM GMT	Email: (empty) Native: Time the document was last modified including the time zone **This data must be a separate field and cannot be combined with the DATE_MOD field
DATE_ACCESSD	10/12/2010	Email: (empty) Native: Date the document was last accessed
TIME_ACCESSD/T IME_ZONE	07:00 PM GMT	Email: (empty) Native: Time the document was last accessed including the time zone **This data must be a separate field and cannot be combined with the DATE_ACCESSD field
PRINTED_DATE	10/12/2010	Email: (empty) Native: Date the document was last printed
FILE_SIZE	5,952	Size of native file document/email in KB
PGCOUNT	1	Number of pages in native file document/email
PATH	J:\Shared\SmithJ\October Agenda.doc	Email: (empty) Native: Path where native file document was stored including original file name.
INTFILEPATH	Personal Folders\Deleted Items\Board Meeting Minutes.msg	Email: original location of email including original file name. Native: (empty)
INTMSGID	<000805c2c71bS75977050Scb 8306d1@MSN>	Email: Unique Message ID Native: (empty)

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HEADER	Return-Path: <example_from@dc.edu> X-SpamCatcher-Score:1[X] Received:from[136.167.40.119] (HELO dc.edu) by fe3.dc.edu (CommuniGate Pro SMTP4.1.8) with ESMTP-TLS id 61258719 for example_to@mail.dc.edu; Mon, 23 Aug 2004 11:40:10 - 0400 Message-ID: <<4129F3CA.2020509@dc.edu> Date: Mon, 23 Aug 2005 11:40:36 -400 From: Taylor Evans <example_from@dc.edu> User-Agent:Mozilla/5.0 (Windows;U; Windows NT 5.1: en-US;rv:1.0.1) Gecko/20020823 Netscape/7.0 X-Accept-Language:en-us,en MIME-Version:1.0 To: Jon Smith <example_to@mail.dc.edu> Subject:Business Development Meeting Content-Type: text/plain;charset=us-ascii; format=flowed Content-Transfer-Encoding:7bit</example_to@mail.dc.edu></example_from@dc.edu></example_from@dc.edu>	
SHA256	AD6128C5CA40164AF71A1E FC800E12D2F195CE07BB5F8 C813B0888A2DDE6A06F	SHA-256 hash value of the document.
OCRPATH	TEXT/001/EDC0000001.txt	Path to extracted text of the native file

Sample Image Cross-Reference File:

IMG0000001,,E:\001\IMG0000001.TIF,Y,,,
IMG0000002,,E:\001\IMG0000002.TIF,,,,
IMG0000003,,E:\001\IMG0000003.TIF,,,,
IMG0000004,,E:\001\IMG0000005.TIF,Y,,,
IMG0000005,,E:\001\IMG0000005.TIF,Y,,,
IMG0000006,,E:\001\IMG0000006.TIF,,,,,

ADDENDUM B

For Electronic Phone Records, include the following fields in separate columns:

For Calls:

- 1) Account Number
- 2) Connection Date Date the call was received or made
- 3) Connection Time Time call was received or made
- 4) Seizure Time Time it took for the call to be placed in seconds
- 5) Originating Number Phone that placed the call
- 6) Terminating Number Phone that received the call
- 7) Elapsed Time The length of time the call lasted, preferably in seconds
- 8) End Time The time the call ended
- 9) Number Dialed Actual number dialed
- 10) IMEI Originating Unique id to phone used to make call
- 11) IMEI Terminating-Unique id to phone used to receive call
- 12) IMSI Originating Unique id to phone used to make call
- 13) IMSI Terminating- Unique id to phone used to receive call
- 14) Call Codes Identify call direction or other routing information
- 15) Time Zone Time Zone in which the call was received or placed, if applicable

For Text messages:

- 1) Account Number
- 2) Connection Date Date the text was received or made
- 3) Connection Time Time text was received or made
- 4) Originating Number Who placed the text
- 5) Terminating Number Who received the text
- 6) IMEI Originating Unique id to phone used to make text
- 7) IMEI Terminating—Unique id to phone used to receive text
- 8) IMSI Originating Unique id to phone used to make text
- 9) IMSI Terminating- Unique id to phone used to receive text
- 10) Text Code Identify text direction, or other text routing information
- 11) Text Type Code Type of text message (sent SMS, MMS, or other)
- 12) Time Zone Time Zone in which the call was received or placed, if applicable

For Mobile Data Usage:

- 1) Account Number
- 2) Connection Date Date the data was received or made
- 3) Connection Time Time data was received or made
- 4) Originating number Number that used data
- 5) IMEI Originating Unique id of phone that used data
- 6) IMSI Originating Unique id of phone that used data
- 7) Data or Data codes Identify data direction, or other data routing information
- 8) Time Zone Time Zone in which the call was received or placed, if applicable

SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549

Supplemental Information for Persons Requested to Supply Information Voluntarily or Directed to Supply Information Pursuant to a Commission Subpoena

A. False Statements and Documents

Section 1001 of Title 18 of the United States Code provides that fines and terms of imprisonment may be imposed upon:

[W]hoever, in any matter within the jurisdiction of the executive, legislative, or judicial branch of the Government of the United States, knowingly and willfully--

- (1) falsifies, conceals, or covers up by any trick, scheme, or device a material fact;
- (2) makes any materially false, fictitious, or fraudulent statement or representation; or
- (3) makes or uses any false writing or document knowing the same to contain any materially false, fictitious, or fraudulent statement or entry.

Section 1519 of Title 18 of the United States Code provides that fines and terms of imprisonment may be imposed upon:

Whoever knowingly alters, destroys, mutilates, conceals, covers up, falsifies, or makes a false entry in any record, document, or tangible object with the intent to impede, obstruct, or influence the investigation or proper administration of any matter within the jurisdiction of any department or agency of the United States . . ., or in relation to or contemplation of any such matter.

B. Testimony

If your testimony is taken, you should be aware of the following:

- 1. Record. Your testimony will be transcribed by a reporter. If you desire to go off the record, please indicate this to the Commission employee taking your testimony, who will determine whether to grant your request. The reporter will not go off the record at your, or your counsel's, direction.
- 2. Counsel. You have the right to be accompanied, represented and advised by counsel of your choice. Your counsel may advise you before, during and after your testimony; question you briefly at the conclusion of your testimony to clarify any of the answers you give during testimony; and make summary notes during your testimony solely for your use. If you are accompanied by counsel, you may consult privately.

If you are not accompanied by counsel, please advise the Commission employee taking your testimony if, during the testimony, you desire to be accompanied, represented and advised by counsel. Your testimony will be adjourned once to afford you the opportunity to arrange to be so accompanied, represented or advised.

You may be represented by counsel who also represents other persons involved in the Commission's investigation. This multiple representation, however, presents a potential conflict of interest if one client's interests are or may be adverse to another's. If you are represented by counsel who also represents other persons involved in the investigation, the Commission will assume that you and counsel have discussed and resolved all issues concerning possible conflicts of interest. The choice of counsel, and the responsibility for that choice, is yours.

3. Transcript Availability. Rule 6 of the Commission's Rules Relating to Investigations, 17 CFR 203.6, states:

A person who has submitted documentary evidence or testimony in a formal investigative proceeding shall be entitled, upon written request, to procure a copy of his documentary evidence or a transcript of his testimony on payment of the appropriate fees: *Provided, however*, That in a nonpublic formal investigative proceeding the Commission may for good cause deny such request. In any event, any witness, upon proper identification, shall have the right to inspect the official transcript of the witness' own testimony.

If you wish to purchase a copy of the transcript of your testimony, the reporter will provide you with a copy of the appropriate form. Persons requested to supply information voluntarily will be allowed the rights provided by this rule.

4. *Perjury.* Section 1621 of Title 18 of the United States Code provides that fines and terms of imprisonment may be imposed upon:

Whoever--

(1) having taken an oath before a competent tribunal, officer, or person, in any case in which a law of the United States authorizes an oath to be administered, that he will testify, declare,

depose, or certify truly, or that any written testimony, declaration, deposition, or certificate by him subscribed, is true, willfully and contrary to such oath states or subscribes any material matter which he does not believe to be true; or

- (2) in any declaration, certificate, verification, or statement under penalty of perjury as permitted under section 1746 of title 28, United States Code, willfully subscribes as true any material matter which he does not believe to be true.
- 5. Fifth Amendment and Voluntary Testimony. Information you give may be used against you in any federal, state, local or foreign administrative, civil or criminal proceeding brought by the Commission or any other agency.

You may refuse, in accordance with the rights guaranteed to you by the Fifth Amendment to the Constitution of the United States, to give any information that may tend to incriminate you.

If your testimony is not pursuant to subpoena, your appearance to testify is voluntary, you need not answer any question, and you may leave whenever you wish. Your cooperation is, however, appreciated.

6. Formal Order Availability. If the Commission has issued a formal order of investigation, it will be shown to you during your testimony, at your request. If you desire a copy of the formal order, please make your request in writing.

C. Submissions and Settlements

Rule 5(c) of the Commission's Rules on Informal and Other Procedures, 17 CFR 202,5(c), states:

Persons who become involved in . . . investigations may, on their own initiative, submit a written statement to the Commission setting forth their interests and position in regard to the subject matter of the investigation. Upon request, the staff, in its discretion, may advise such persons of the general nature of the investigation, including the indicated violations as they pertain to them, and the amount of time that may be available for preparing and submitting a statement prior to the presentation of a staff recommendation to the Commission for the commencement of an administrative or injunction proceeding. Submissions by interested persons should be forwarded to the appropriate Division Director or Regional Director with a copy to the staff members conducting the investigation and should be clearly referenced to the specific investigation to which they relate. In the event a recommendation for the commencement of an enforcement proceeding is presented by the staff, any submissions by interested persons will be forwarded to the Commission in conjunction with the staff memorandum.

The staff of the Commission routinely seeks to introduce submissions made pursuant to Rule 5(c) as evidence in Commission enforcement proceedings, when the staff deems appropriate.

Rule 5(f) of the Commission's Rules on Informal and Other Procedures, 17 CFR 202.5(f), states:

In the course of the Commission's investigations, civil lawsuits, and administrative proceedings, the staff, with appropriate authorization, may discuss with persons involved the disposition of such matters by consent, by settlement, or in some other manner. It is the policy of the Commission, however, that the disposition of any such matter may not, expressly or impliedly, extend to any criminal charges that have been, or may be, brought against any such person or any recommendation with respect thereto. Accordingly, any person involved in an enforcement matter before the Commission who consents, or agrees to consent, to any judgment or order does so solely for the purpose of resolving the claims against him in that investigative, civil, or administrative matter and not for the purpose of resolving any criminal charges that have been, or might be, brought against him. This policy reflects the fact that neither the Commission nor its staff has the authority or responsibility for instituting, conducting, settling, or otherwise disposing of criminal proceedings. That authority and responsibility are vested in the Attorney General and representatives of the Department of Justice.

D. Freedom of Information Act

The Freedom of Information Act, 5 U.S.C. 552 (the "FOIA"), generally provides for disclosure of information to the public. Rule 83 of the Commission's Rules on Information and Requests, 17 CFR 200.83, provides a procedure by which a person can make a written request that information submitted to the Commission not be disclosed under the FOIA. That rule states that no determination as to the validity of such a request will be made until a request for disclosure of the information under the FOIA is received. Accordingly, no response to a request that information not be disclosed under the FOIA is necessary or will be given until a request for disclosure under the FOIA is received. If you desire an acknowledgment of receipt of your written request that information not be disclosed under the FOIA, please provide a duplicate request, together with a stamped, self-addressed envelope.

E. Authority for Solicitation of Information

Persons Directed to Supply Information Pursuant to Subpoena. The authority for requiring production of information is set forth in the subpoena. Disclosure of the information to the Commission is mandatory, subject to the valid assertion of any legal right or privilege you might have.

Persons Requested to Supply Information Voluntarily. One or more of the following provisions authorizes the Commission to solicit the information requested: Sections 19 and/or 20 of the Securities Act of 1933; Section 21 of the Securities Exchange Act of 1934; Section 321 of the Trust Indenture Act of 1939; Section 42 of the Investment Company Act of 1940; Section 209 of the Investment Advisers Act of 1940; and 17 CFR 202.5. Disclosure of the requested information to the Commission is voluntary on your part.

F. Effect of Not Supplying Information

Persons Directed to Supply Information Pursuant to Subpoena. If you fail to comply with the subpoena, the Commission may seek a court order requiring you to do so. If such an order is obtained and you thereafter fail to supply the information, you may be subject to civil and/or criminal sanctions for contempt of court. In addition, Section 21(c) of the Securities Exchange Act of 1934, Section 42(c) of the Investment Company Act of 1940, and Section 209(c) of the Investment Advisers Act of 1940 provide that fines and terms of imprisonment may be imposed upon any person who shall, without just cause, fail or refuse to attend and testify or to answer any lawful inquiry, or to produce books, papers, correspondence, memoranda, and other records in compliance with the subpoena.

Persons Requested to Supply Information Voluntarily. There are no direct sanctions and thus no direct effects for failing to provide all or any part of the requested information.

G. Principal Uses of Information

The Commission's principal purpose in soliciting the information is to gather facts in order to determine whether any person has violated, is violating, or is about to violate any provision of the federal securities laws or rules for which the Commission has enforcement authority, such as rules of securities exchanges and the rules of the Municipal Securities Rulemaking Board. Facts developed may, however, constitute violations of other laws or rules. Information provided may be used in Commission and other agency enforcement proceedings. Unless the Commission or its staff explicitly agrees to the contrary in writing, you should not assume that the Commission or its staff acquiesces in, accedes to, or concurs or agrees with, any position, condition, request, reservation of right, understanding, or any other statement that purports, or may be deemed, to be or to reflect a limitation upon the Commission's receipt, use, disposition, transfer, or retention, in accordance with applicable law, of information provided.

H. Routine Uses of Information

The Commission often makes its files available to other governmental agencies, particularly United States Attorneys and state prosecutors. There is a likelihood that information supplied by you will be made available to such agencies where appropriate. Whether or not the Commission makes its files available to other governmental agencies is, in general, a confidential matter between the Commission and such other governmental agencies.

Set forth below is a list of the routine uses which may be made of the information furnished.

- 1. To appropriate agencies, entities, and persons when (1) the SEC suspects or has confirmed that there has been a breach of the system of records, (2) the SEC has determined that as a result of the suspected or confirmed breach there is a risk of harm to individuals, the SEC (including its information systems, programs, and operations), the Federal Government, or national security; and (3) the disclosure made to such agencies, entities, and persons is reasonably necessary to assist in connection with the SEC's efforts to respond to the suspected or confirmed breach or to prevent, minimize, or remedy such harm.
- 2. To other Federal, state, local, or foreign law enforcement agencies; securities self-regulatory organizations; and foreign financial regulatory authorities to assist in or coordinate regulatory or law enforcement activities with the SEC.
- 3. To national securities exchanges and national securities associations that are registered with the SEC, the Municipal Securities Rulemaking Board; the Securities Investor Protection Corporation; the Public Company Accounting Oversight Board; the Federal banking authorities, including, but not limited to, the Board of Governors of the Federal Reserve System, the Comptroller of the Currency, and the Federal Deposit Insurance Corporation; state securities regulatory agencies or organizations; or regulatory authorities of a foreign government in connection with their regulatory or enforcement responsibilities.
- 4. By SEC personnel for purposes of investigating possible violations of, or to conduct investigations authorized by, the Federal securities laws.
- 5. In any proceeding where the Federal securities laws are in issue or in which the Commission, or past or present members of its staff, is a party or otherwise involved in an official capacity.
- 6. In connection with proceedings by the Commission pursuant to Rule 102(e) of its Rules of Practice, 17 CFR 201.102(e).

- 7. To a bar association, state accountancy board, or other Federal, state, local, or foreign licensing or oversight authority; or professional association or self-regulatory authority to the extent that it performs similar functions (including the Public Company Accounting Oversight Board) for investigations or possible disciplinary action.
- 8. To a Federal, state, local, tribal, foreign, or international agency, if necessary to obtain information relevant to the SEC's decision concerning the hiring or retention of an employee; the issuance of a security clearance; the letting of a contract; or the issuance of a license, grant, or other benefit.
- 9. To a Federal, state, local, tribal, foreign, or international agency in response to its request for information concerning the hiring or retention of an employee; the issuance of a security clearance; the reporting of an investigation of an employee; the letting of a contract; or the issuance of a license, grant, or other benefit by the requesting agency, to the extent that the information is relevant and necessary to the requesting agency's decision on the matter.
- 10. To produce summary descriptive statistics and analytical studies, as a data source for management information, in support of the function for which the records are collected and maintained or for related personnel management functions or manpower studies; may also be used to respond to general requests for statistical information (without personal identification of individuals) under the Freedom of Information Act.
- 11. To any trustee, receiver, master, special counsel, or other individual or entity that is appointed by a court of competent jurisdiction, or as a result of an agreement between the parties in connection with litigation or administrative proceedings involving allegations of violations of the Federal securities laws (as defined in section 3(a)(47) of the Securities Exchange Act of 1934, 15 U.S.C. 78c(a)(47)) or pursuant to the Commission's Rules of Practice, 17 CFR 201.100 through 900 or the Commission's Rules of Fair Fund and Disgorgement Plans, 17 CFR 201.1100 through 1106, or otherwise, where such trustee, receiver, master, special counsel, or other individual or entity is specifically designated to perform particular functions with respect to, or as a result of, the pending action or proceeding or in connection with the administration and enforcement by the Commission of the Federal securities laws or the Commission's Rules of Practice or the Rules of Fair Fund and Disgorgement Plans.
- 12. To any persons during the course of any inquiry, examination, or investigation conducted by the SEC's staff, or in connection with civil litigation, if the staff has reason to believe that the person to whom the record is disclosed may have further information about the matters related therein, and those matters appeared to be relevant at the time to the subject matter of the inquiry.
- 13. To interns, grantees, experts, contractors, and others who have been engaged by the Commission to assist in the performance of a service related to this system of records and who need access to the records for the purpose of assisting the Commission in the efficient administration of its programs, including by performing clerical, stenographic, or data analysis functions, or by reproduction of records by electronic or other means. Recipients of these records shall be required to comply with the requirements of the Privacy Act of 1974, as amended, 5 U.S.C.
- 14. In reports published by the Commission pursuant to authority granted in the Federal securities laws (as such term is defined in section 3(a)(47) of the Securities Exchange Act of 1934, 15 U.S.C. 78c(a)(47)), which authority shall include, but not be limited to, section 21(a) of the Securities Exchange Act of 1934, 15 U.S.C. 78u(a)).
- 15. To members of advisory committees that are created by the Commission or by Congress to render advice and recommendations to the Commission or to Congress, to be used solely in connection with their official designated functions.
- 16. To any person who is or has agreed to be subject to the Commission's Rules of Conduct, 17 CFR 200.735-1 through 200.735-18, and who assists in the investigation by the Commission of possible violations of the Federal securities laws (as such term is defined in section 3(a)(47) of the Securities Exchange Act of 1934, 15 U.S.C. 78c(a)(47)), in the preparation or conduct of enforcement actions brought by the Commission for such violations, or otherwise in connection with the Commission's enforcement or regulatory functions under the Federal securities laws.
- 17. To a Congressional office from the record of an individual in response to an inquiry from the Congressional office made at the request of that individual.
- 18. To members of Congress, the press, and the public in response to inquiries relating to particular Registrants and their activities, and other matters under the Commission's jurisdiction.
- 19. To prepare and publish information relating to violations of the Federal securities laws as provided in 15 U.S.C. 78c(a)(47)), as amended.
- 20. To respond to subpoenas in any litigation or other proceeding.
- 21. To a trustee in bankruptcy.
- 22. To any governmental agency, governmental or private collection agent, consumer reporting agency or commercial reporting agency, governmental or private employer of a debtor, or any other person, for collection,

including collection by administrative offset, Federal salary offset, tax refund offset, or administrative wage garnishment, of amounts owed as a result of Commission civil or administrative proceedings.

23. To another Federal agency or Federal entity, when the SEC determines that information from this system of records is reasonably necessary to assist the recipient agency or entity in (1) responding to a suspected or confirmed breach or (2) preventing, minimizing, or remedying the risk of harm to individuals, the recipient agency or entity (including its information systems, programs, and operations), the Federal Government, or national security, resulting from a suspected or confirmed breach.

Page 759 of 933

* * * * *

Small Business Owners: The SEC always welcomes comments on how it can better assist small businesses. If you would like more information, or have questions or comments about federal securities regulations as they affect small businesses, please contact the Office of Small Business Policy, in the SEC's Division of Corporation Finance, at 202-551-3460. If you would prefer to comment to someone outside of the SEC, you can contact the Small Business Regulatory Enforcement Ombudsman at http://www.sba.gov/ombudsman or toll free at 888-REG-FAIR. The Ombudsman's office receives comments from small businesses and annually evaluates federal agency enforcement activities for their responsiveness to the special needs of small business.

To: contact@sigmaprime.io[contact@sigmaprime.io]
Cc: (b)(6); (b)(7)(G) Se 1:24-CV (b)(6); (b)(7)(G) (b)(7)(G) (b)(7)(G) (b)(7)(G) (b)(7)(G) (b)(7)(G) (b)(7)(G) (c) (c)(7)(G) (c

 Subject:
 SMAIL C-8950 Document Request

 Received:
 2024-02-27T18:58:49Z

 2024.02.27 C-8950 Sigma Prime Vol Req.pdf

Good afternoon,

Please see attached a document request from the U.S. Securities and Exchange Commission.

Thank you,

(b)(6); (b)(7)(C)

Division of Enforcement

100 Pearl Street, Suite 20-100

New York, NY 10004

(b)(6); (b)(7)(C) (b)(6); (b)ec.gov

II S Securities and

U.S. Securities and Exchange Commission



UNITED STATES SECURITIES AND EXCHANGE COMMISSION

100 PEARL STREET, SUITE 20-100 NEW YORK, NY 10004-2616

DIVISION OF ENFORCEMENT

February 27, 2024

VIA email contact@sigmaprime.io Sigma Prime 201 Sussex Street 2000 Sydney New South Wales, Australia

Re: C-08950

To Whom It May Concern:

The staff of the United States Securities and Exchange Commission is conducting an investigation relating to the above-referenced matter to determine if violations of the federal securities laws have occurred. In connection with this investigation, the staff requests that Sigma Prime immediately preserve, and voluntarily provide us with, the information and documents set forth in Attachment A on or before **March 12**, **2024 at 5:00 pm ET**.

Please send the materials electronically to enf-cpu@sec.gov with a copy to @sec.gov, [b)(6); @sec.gov, [b)(6); @sec.gov, and [b)(6); @sec.gov. If you would like to use the Commission's secure electronic transfer site, Accellion/Kiteworks, please contact me and I will send you a link. If you prefer to send the materials on DVD or other electronic media, please send them to:

ENF-CPU (U.S. Securities & Exchange Commission) 14420 Albermarle Point Pl. Suite 102 Chantilly, VA 20151-1750

Please carefully read the attachment, which contains, among other things, important instructions related to the manner of producing documents. In particular, if you prefer to send us copies of original documents, the staff requests that you scan and produce hard copy documents, as well as electronic documents, in an electronic format consistent with the SEC Data Delivery Standards attached hereto. All electronic documents responsive to the document request, including all metadata, should also be produced in their native software format. If you have any questions concerning the production of documents in an electronic format, please contact me as soon as possible and in any event before producing documents.

In your cover letter(s) accompanying the production of responsive documents, please enclose a list briefly describing each item you send. The list should state to which paragraph(s) in the attachment each item responds. Please also state in the cover letter(s) whether you believe you have met your obligations under the document request by searching carefully and thoroughly for everything called for by the request, and sending it all to us. **Correspondence should reference case number, case name and requesting SEC staff member.**

Please also provide a narrative description describing what was done to identify and collect documents responsive to the request. At a minimum, the narrative should describe:

- who searched for documents;
- who reviewed documents found to determine whether they were responsive;
- which custodians were searched;
- what sources were searched (e.g., computer files, CDs, DVDs, thumb drives, flash drives, online storage media, hard copy files, diaries, datebooks, planners, filing cabinets, storage facilities, home offices, work offices, voice mails, home email, webmail, work email, backup tapes or other media);
- what search terms, if any, were employed to identify responsive documents;
- what firms and/or persons, if any, assisted in analyzing the data collected;
- what third parties, if any, were contacted to obtain responsive documents (e.g., phone companies for phone records, brokerage firms for brokerage records); and
- where the original electronic and hardcopy documents are maintained and by whom.

Also attached is a Business Records Declaration. Execution of this declaration may allow the Commission to introduce documents provided by you in any subsequent judicial proceeding, without requiring the testimony of your custodian of records should the documents be required at trial.

This investigation is a non-public, fact-finding inquiry. The investigation does not mean that we have concluded that you or anyone else has violated the law. Also, the investigation does not mean that we have a negative opinion of any person, entity, or security. Enclosed is a copy of the Commission's Form 1662 entitled "Supplemental Information for Persons Requested to Supply Information Voluntarily or Directed to Supply Information Pursuant to a Commission Subpoena." Form 1662 explains how we may use the information you provide to the Commission and has other important information for you.

Thank you in advance for your anticipated cooperation. If you have any questions or would like to discuss this matter, you may contact me at (b)(6); (c)(7)(C) (c)(8)

Sincerely,

(b)(6); (b)(7)(C)

Division of Enforcement
(b)(6); (b)(7)(C)

is sec.gov

Enclosures: Attachment A

SEC Data Delivery Standards SEC Form 1662

Business Records Certification

ATTACHMENT FOR SIGMA PRIME

C-08950

February 27, 2024

Definitions

As used in this subpoena, the words and phrases listed below shall have the following meanings:

- 1. "Relevant Period" means July 1, 2018 to the present.
- 2. "Sigma Prime" means the entity doing business under the name Sigma Prime, parents, subsidiaries, affiliates, predecessors, successors, officers, directors, employees, agents, general partners, limited partners, partnerships and aliases, code names, or trade or business names used by any of the foregoing.
- 3. The "Ethereum Foundation" means the entity or business doing business under the name Ethereum Foundation, including, but not limited to, ethereum.org, the Ethereum Support Program, and parents, subsidiaries, affiliates, predecessors, successors, officers, directors, employees, agents, general partners, limited partners, partnerships and aliases, owners, code names, or trade or business names used by any of the foregoing.
- 4. "The Merge" or "Ethereum 2.0" means the transition by the Ethereum blockchain of its consensus mechanism from proof-of-work to proof-of-stake.
- 5. "Beacon Chain" means the original proof-of-stake blockchain that was launched in 2020 that ran alongside the original proof-of-work Ethereum blockchain.
- 6. "Document" shall include, but is not limited to, any written, printed, or typed matter including, but not limited to all drafts and copies bearing notations or marks not found in the original, letters and correspondence, interoffice communications, slips, tickets, records, worksheets, financial records, accounting documents, bookkeeping documents, memoranda, reports, manuals, telephone logs, facsimiles, messages of any type, telephone messages, text messages, voice mails, tape recordings, notices, instructions, minutes, summaries, notes of meetings, file folder markings, and any other organizational indicia, purchase orders, information recorded by photographic process, including microfilm and microfiche, computer printouts, spreadsheets, and other electronically stored information, including writings, drawings, graphs, charts, photographs, sound recordings, images, and other data or data compilations that are stored in any medium from which information can be retrieved, obtained, manipulated, or translated.
- 7. "Communication" means any correspondence, contact, discussion, e-mail, instant message, or any other kind of oral or written exchange or transmission of information (in the form of facts, ideas, inquiries, or otherwise), including but not limited to those made on Social Media Services, and any response thereto between two or more Persons or entities, including, without limitation, all telephone conversations, face-to-face meetings

- 8. "Concerning" means directly or indirectly, in whole or in part, describing, constituting, evidencing, recording, evaluating, substantiating, concerning, referring to, alluding to, in connection with, commenting on, relating to, regarding, discussing, showing, analyzing or reflecting.
- 9. "Agreement" means any actual or contemplated (i) written or oral Agreement; (ii) term or provision of such Agreement; or (iii) amendment of any nature or termination of such Agreement. A request for any Agreement among or between specified parties includes a request for all Documents Concerning (i) any actual or contemplated Agreement among or between such parties, whether or not such Agreement included any other Person; (ii) the drafting or negotiation of any such Agreement; (iii) any actual or contemplated demand, request or application for any such Agreement, and any response thereto; and (iv) any actual or contemplated objection or refusal to enter into any such Agreement, and any response thereto.
- 10. "Bank or Financial Account" means the domestic or foreign bank, brokerage, or financial accounts held, controlled, or used by you or by other people on your behalf. This includes, but is not limited to, accounts that contain currency, securities, or crypto assets.
- 11. "Person" means a natural person, firm, association, organization, partnership, business, trust, corporation, bank or any other private or public entity.
- 12. The term "you" and "your" means the Person to whom or entity to which this subpoena was issued.
- 13. To the extent necessary to bring within the scope of this this subpoena any information or Documents that might otherwise be construed to be outside its scope:
 - a. the word "or" means "and/or";
 - b. the word "and" means "and/or";
 - c. the functional words "each," "every" "any" and "all" shall each be deemed to include each of the other functional words;
 - d. the masculine gender includes the female gender and the female gender includes the masculine gender; and
 - e. the singular includes the plural and the plural includes the singular.

Instructions

1. Unless otherwise specified, the Document request calls for production of the original Documents and all copies and drafts of same. Documents responsive to this request may be in electronic or paper form. Electronic Documents such as email should be produced in accordance with the attached document entitled SEC Data Delivery Standards. All electronic Documents responsive to the Document request, including all metadata, should

also be produced in their native software format.

- 2. For Documents in paper format, you may send the originals, or, if you prefer, you may send copies of the originals. The Commission cannot reimburse you for the copying costs. If you are sending copies, the staff requests that you scan (rather than photocopy) hard copy Documents and produce them in an electronic format consistent with the SEC Data Delivery Standards. Alternatively, you may send us photocopies of the Documents in paper format. If you choose to send copies, you <u>must</u> secure and retain the originals and store them in a safe place. The staff may later request or require that you produce the originals.
- 3. Whether you scan or photocopy Documents, the copies must be identical to the originals, including even faint marks or print. Also, please note that if copies of a Document differ in any way, they are considered separate Documents and you must send each one. For example, if you have two copies of the same letter, but only one of them has handwritten notes on it, you must send both the clean copy and the one with notes.
- 4. In producing a photocopy of an original Document that contains post-it(s), notation flag(s), or other removable markings or attachments which may conceal all or a portion of the markings contained in the original Document, photocopies of the original Document both with and without the relevant post-it(s), notation flag(s), or removable markings or attachments should be produced.
- 5. Documents should be produced as they are kept in the ordinary course of business or be organized and labeled to correspond with the categories in this request. In that regard, Documents should be produced in a unitized manner, *i.e.*, delineated with staples or paper clips to identify the Document boundaries.
- 6. Documents should be labeled with sequential numbering (bates-stamped).
- 7. The scope of any given request should not be limited or narrowed based on the fact that it calls for Documents that are responsive to another request.
- 8. You are not required to produce exact duplicates of any Documents that have been previously produced to the Securities and Exchange Commission staff in connection with this matter. If you are not producing Documents based upon a prior production, please identify the responsive Documents that were previously produced.
- 9. This request covers all Documents in or subject to your possession, custody or control, including all Documents that are not in your immediate possession but that you have the effective ability to obtain, that are responsive, in whole or in part, to any of the individual requests set forth below. If, for any reason—including a claim of attorney-client privilege—you do not produce something called for by the request, you should submit a list of what you are not producing. The list should be produced as an Excel file and describe each item separately, noting:

- its author(s); a.
- its date; b.
- its subject matter; c.
- d. the name of the Person who has the item now, or the last Person known to have it:
- the names of everyone who ever had the item or a copy of it, and the e. names of everyone who was told the item's contents;
- the basis upon which you are not producing the responsive Document; f.
- the specific request in the request to which the Document relates; g.
- the attorney(s) and the client(s) involved; and h.
- in the case of the work product doctrine, the litigation for which the i. Document was prepared in anticipation.
- If Documents responsive to this request no longer exist because they have been lost, 10. discarded, or otherwise destroyed, you should identify such Documents and give the date on which they were lost, discarded or destroyed.

Documents to be Produced

- 1. All Agreements between Sigma Prime and the Ethereum Foundation;
- 2. All Documents and Communications Concerning any grant or other source of funding received from the Ethereum Foundation;
- 3. All Documents and Communications Concerning any work conducted by Sigma Prime pursuant to any grant or other source of funding received from the Ethereum Foundation;
- 4. Documents sufficient to identify Sigma Prime crypto asset wallet addresses or Bank or Financial Accounts, located within or outside the U.S., that received any grant or other source of funding from the Ethereum Foundation, as well as the amount of crypto assets or fiat received;
- 5. Documents sufficient to identify all meetings with the Ethereum Foundation, including any Documents related to the meetings identified;
- 6. All Communications with the Ethereum Foundation, including, but not limited to, Communications with board members, consultants, officers, directors, employees, developers, coders, and others performing work on behalf of these entities, related to The Merge or the Beacon Chain.

DECLARATION OF [Insert Name] CERTIFYING RECORDS OF REGULARLY CONDUCTED BUSINESS ACTIVITY

I, the undersigned, [insert name], pursuant to 28 U.S.C. § 1746, declare that:

- 1. I am employed by Sigma Prime [insert position] and by reason of my position am authorized and qualified to make this declaration. [if possible supply additional information as to how person is qualified to make declaration, e.g., I am custodian of records, I am familiar with the company's recordkeeping practices or systems, etc.]
- 2. I further certify that the documents [attached hereto or submitted herewith] and stamped [insert bates range] are true copies of records that were:
 - (a) made at or near the time of the occurrence of the matters set forth therein, by, or from information transmitted by, a person with knowledge of those matters;
 - (b) kept in the course of regularly conducted business activity; and
 - (c) made by the regularly conducted business activity as a regular practice.

I declare under penalty of perjury that the foregoing is true and correct. Executed on [date].

[Name]	



U.S. Securities and Exchange Commission

Data Delivery Standards

This document describes the technical requirements for paper and electronic document productions to the U.S. Securities and Exchange Commission (SEC). **Any questions or proposed file formats other than those described below must be discussed with the legal and technical staff of the SEC Division of Enforcement prior to submission. **

JÇ	cheral tristructions	1
Dε	elivery Formats	2
	I. Imaged Productions	3
	I. Imaged Productions	2
	2. Image Cross-Reference File	
	3. Data File	3
	4. Text	
	5. Linked Native Files	
	II. Native File Productions without Load Files	
	III. Adobe PDF File Productions	
	IV. Audio Files V. Video Files	
	VI. Electronic Trade and Bank Records	
	VII. Electronic Phone Records	
	VIII. Audit Workpapers	. 5
	IX. Mobile Device Data	5

General Instructions

Conoral Instructions

The current mailing address for all physical productions sent to the SEC is:

ENF-CPU (U.S. Securities & Exchange Commission), 14420 Albemarle Point Place, Suite 102, Chantilly, VA 20151-1750

Electronic files must be produced in their native format, i.e. the format in which they are ordinarily used and maintained during the normal course of business. For example, an MS Excel file must be produced as an MS Excel file rather than an image of a spreadsheet. (Note: An Adobe PDF file is not considered a native file unless the document was initially created as a PDF.)

In the event produced files require the use of proprietary software not commonly found in the workplace, the SEC will explore other format options with the producing party.

The proposed use of file de-duplication methodologies or computer-assisted review or technology-assisted review (TAR) during the processing of documents must be discussed with and approved by the legal and technical staff of the Division of Enforcement (ENF). If your production will be de-duplicated it is vital that you 1) preserve any unique metadata associated with the duplicate files, for example, custodian name and file location and, 2) make that unique metadata part of your production to the SEC.

General requirements for ALL document productions are:

- 1. A cover letter must be included with each production and should include the following information:
 - a. Case number, ease name and requesting SEC staff member name
 - b. A list of each piece of media included in the production with its unique production volume number
 - c. A list of custodians, identifying the Bates range for each custodian
 - d. A list of redacted documents and the redaction reason
 - c. The time zone in which the emails were standardized during conversion
 - f. Whether the production contains native files produced from Mac operating system environments
- 2. Data can be produced on CD, DVD, thumb drive, etc., using the media requiring the least number of deliverables and labeled with the following:
 - a. Case number
 - b. Production date
 - c. Producing party
 - d. Bates range (if applicable)
- All submissions must be organized by custodian unless otherwise instructed.
- 4. All document family groups, i.e. email attachments, embedded files, etc., should be produced together and children files should follow parent files sequentially in the Bates numbering.
- 5. All load-ready collections should include only one data load file and one image pointer file.
- 6. All load-ready text must be produced as separate document-level text files.
- 7. All load-ready collections should account for custodians in the custodian field.
- All load-ready collections must provide the extracted contents of any container files to ensure all relevant files are produced as separate records.
- 9. Audio files should be separated from data files if both are included in the production.
- Only alphanumeric characters and the underscore character are permitted in file names and folder names. Special characters
 are not permitted.
- 11. All electronic productions submitted on media must be produced using industry standard self-extracting encryption software.
- 12. The SEC uses 7zip to access compressed files. Note that the SEC cannot accept files that use AES-256 Jpeg or pkAES-256-Cert Deflate compression methods, even if the files are created with 7zip. If you have any questions or need additional information, please reach out to the requesting SEC staff member.
- 13. Electronic productions of 30 GB or less are strongly encouraged to be submitted via Secure File Transfer. All Secure File Transfers should be sent to the SEC Centralized Production Unit (ENF-CPU@sec.gov) with a CC to the requesting SEC staff member. If you do not have your own Secure File Transfer application, you may reach out to the requesting SEC staff member for a link to the SEC system in order to upload your production. If using the SEC Secure File Transfer system, you will NOT be able to CC individuals outside the SEC on your upload transmission. Note that the SEC cannot accept productions made using file sharing sites such as Google Drive or Microsoft Office 365.
- 14. Productions containing BSA or SAR material must be encrypted. Secure File Transfer applications may be used to produce BSA or SAR material. BSA or SAR material should be segregated and appropriately marked as BSA or SAR, or should be produced separately from other case related records.
- 15. Passwords for electronic documents, files, compressed archives and encrypted media must be provided separately either via email or in a cover letter apart from the media.
- 16. All electronic productions should be produced free of computer viruses.
- 17. Before producing forensically collected images, parties should reach out to the requesting SEC staff member in order to discuss appropriate handling.
- 18. Before producing unique data sets (large sets of relational data, website reconstruction, chat room data, etc.), parties should reach out to the requesting SEC staff member in order to discuss an appropriate production format.
- Additional technical descriptions can be found in the addendum to this document.

Please note that productions sent to the SEC via United States Postal Service are subject to Mail Irradiation, and as a result electronic productions may be damaged.

Delivery Formats

Imaged Productions

The SEC prefers that all scanned paper and electronic file collections be produced in a structured format including industry standard load files, Bates numbered image files, native files and searchable document-level text files. Bates numbers should not contain spaces. Hyphens (-) and underscores (-) are acceptable.

1. Images

- Black and white images must be 300 DPI Group IV single-page TIFF files
- b. Color images must be produced in JPEG format
- File names cannot contain embedded spaces or special characters (including the comma)
- d. Folder names cannot contain embedded spaces or special characters (including the comma)
- e. All image files must have a unique file name, i.e. Bates number
- f. Images must be endorsed with sequential Bates numbers in the lower right corner of each image
- The number of image files per folder should not exceed 2,000 files g.
- h. Excel spreadsheets should have a placeholder image named by the Bates number of the file
- AUTOCAD/photograph files should be produced as a single page JPEG file

2. Image Cross-Reference File

The image cross-reference file (LOG or .OPT) links the images to the database records. It should be a comma-delimited file consisting of seven fields per line with a line in the cross-reference file for every image in the database with the following format:

ImageID, VolumeLabel, ImageFilePath, DocumentBreak, FolderBreak, BoxBreak, PageCount

3. Data File

The data file (.DAT) contains all of the fielded information that will be loaded into the database.

- The first line of the .DAT file must be a header row identifying the field names
- The .DAT file must use the following *Concordance*® default delimiters:

Comma ¶ ASCII character (020)

Quote b ASCII character (254)

- c. If the .DAT file is produced in Unicode format it must contain the byte order marker
- d. Date fields should be provided in the format: mm/dd/yyyy
- Date and time fields must be two separate fields
- The time zone must be included in all time fields f.
- If the production includes imaged emails and attachments, the attachment fields must be included to preserve the parent/child relationship between an email and its attachments
- An OCRPATH field must be included to provide the file path and name of the extracted text file on the produced storage media. The text file must be named after the FIRSTBATES. Do not include the text in the .DAT file.
- For productions with native files, a LINK field must be included to provide the file path and name of the native file on the produced storage media. The native file must be named after the FIRSTBATES.
- BEGATTACH and ENDATTACH fields must be two separate fields
- A complete list of metadata fields is available in Addendum A to this document

4. Text

Text must be produced as separate document-level text files, not as fields within the .DAT file. The text files must be named per the FIRSTBATES/Image Key and the full path to the text file (OCRPATII) should be included in the .DAT file. Text files may be in either ANSI or Unicode format, however, ALL text files must be in the same format within the same production. Note that productions containing text with foreign characters must produce text files in Unicode format to preserve the foreign characters. Text files must be in a separate folder, and the number of text files per folder should not exceed 2,000 files. There should be no special characters (including commas) in the folder names. For redacted documents, provide the full text for the redacted version.

Linked Native Files

Copies of original email and native file documents/attachments must be included for all electronic productions.

- a. Native file documents must be named per the FIRSTBATES number
- b. The full path of the native file must be provided in the .DAT file for the LINK field
- The number of native files per folder should not exceed 2,000 files

II. Native File Production without Load Files

With prior approval, native files may be produced without load files. Native file productions should not be Bates numbered. Native files must be produced as they are maintained in the normal course of business and organized by custodian-named file folders. Native email files (.PST or .MBOX) must be separated by custodian.

III. Adobe PDF File Production

With prior approval, Adobe PDF files may be produced in native file format.

- 1. All PDFs must be unitized at the document level, i.e. each PDF must represent a discrete document.
- 2. PDF files should be produced in separate folders named by the custodian. The folders should not contain any special characters (including commas).
- 3. All PDF files must contain embedded text that includes all discernible words within the document, not selected text or image only. This requires all layers of the PDF to be flattened first.
- 4. If PDF files are Bates endorsed, the PDF files must be named by the Bates range.

IV. Audio Files

Audio files from telephone recording systems must be produced in a format that is playable using Microsoft Windows Media PlayerTM. Additionally, the call information (metadata) related to each audio recording MUST be provided. The metadata file must be produced in a delimited text format. Field names must be included in the first row of the text file. The metadata must include, at a minimum, the following fields:

1) Caller Name: Caller's name or account/identification number

2) Originating Number: Caller's phone number3) Called Party Name: Called party's name

4) Terminating Number: Called party's phone number

5) Date: Date of call6) Time: Time of call

7) Filename: Filename of audio file

V. Video Files

Video files must be produced in a format that is playable using Microsoft Windows Media PlayerTM.

VI. Electronic Trade and Bank Records

When producing electronic trade records, bank records, or financial statements, provide the files in one of the following formats:

- 1. MS Excel spreadsheet with header information detailing the field structure. If any special codes exist in the dataset, a separate document must be provided that details all such codes. If details of the field structure do not fit in the header, a separate document must be provided that includes such details.
- 2. Delimited text file with header information detailing the field structure. The preferred delimiter is a vertical bar "|". If any special codes exist in the dataset, a separate document must be provided that details all such codes. If details of the field structure do not fit in the header, a separate document must be provided that includes such details.

VII. Electronic Phone Records

When producing an MS Excel spreadsheet for electronic phone records, provide the files in the following format:

- 1. MS Excel spreadsheet with header information detailing the field structure. If any special codes exist in the dataset, a separate document must be provided that details all such codes. If details of the field structure do not fit in the header, a separate document must be provided that includes such details. Data must be formatted in its native format (i.e. dates in a date format, numbers in an appropriate numerical format, and numbers with leading zeroes as text).
 - a. The metadata that must be included is outlined in **Addendum B** of this document. Each field of data must be loaded into a separate column. For example, Date and Start_Time must be produced in separate columns and not combined into a single column containing both pieces of information. Any fields of data that are provided in addition to those listed in **Addendum B** must also be loaded into separate columns.

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VIII. Audit Workpapers

The SEC prefers for workpapers to be produced in two formats: (1) With Bates numbers in accordance with the SEC Data Delivery Standards; and (2) in native format via laptop computer, web-based viewing platform, or otherwise, allowing for viewing in the same format and organization as the firm's audit team. Prior to production of workpapers via laptop computer or web-based viewing platform, audit firms should contact the requesting SEC staff member for additional information and written agreements addressing use of software, access, and viewing protocols.

IX. Mobile Device Data

Before producing any mobile device data (including but not limited to text messages and application data) parties should reach out to the requesting SEC staff member in order to discuss the appropriate production format. Productions containing chat data from applications must be identified at the time of production and the following information must be provided to the requesting SEC staff member and the SEC Centralized Production Unit: chat application, chat data format, and how the length of a chat is determined (i.e. set duration of time, number of minutes without messages, etc.)

ADDENDUM A

The metadata of electronic document collections should be extracted and provided in a .DAT file using the field definition and formatting described below:

Field Name	Sample Data	Description
FIRSTBATES	EDC0000001	First Bates number of native file document/email
LASTBATES	EDC0000001	Last Bates number of native file document/email
		**The LASTBATES field should be populated
		for single page documents/emails.
ATTACHRANGE	EDC0000001 - EDC0000015	Bates number of the first page of the parent
		document to the Bates number of the last page of the
		last attachment "child" document
BEGATTACH	EDC0000001	First Bates number of attachment range
ENDATTACH	EDC0000015	Last Bates number of attachment range
PARENT_BATES	EDC0000001	First Bates number of parent document/Email **This PARENT_BATES field should be populated
		in each record representing an attachment "child"
		document
CHILD BATES	EDC0000002; EDC0000014	First Bates number of "child" attachment(s); can be
		more than one Bates number listed depending on the
		number of attachments
		**The CHILD BATES field should be populated in
		each record representing a "parent" document
CUSTODIAN	Smith, John	Email: Mailbox where the email resided
		Native: Name of the individual or department from
		whose files the document originated
FROM	John Smith	Email: Sender
		Native: Author(s) of document
		**semi-colon should be used to separate multiple
		entries
TO	Coffman, Janice; LeeW	Recipient(s)
	[mailto:LecW@MSN.com]	**semi-colon should be used to separate multiple
		entries
CC	Frank Thompson [mailto:	Carbon copy recipient(s)
	frank_Thompson@cdt.com]	**semi-colon should be used to separate multiple
D.C.C.		entries
BCC	John Cain	Blind carbon copy recipient(s)
		**semi-colon should be used to separate multiple
SUBJECT	Board Meeting Minutes	entries Email: Subject line of the email
SUBJECT	Board Meeting Minutes	Native: Title of document (if available)
FILE_NAME	BoardMeetingMinutes.docx	Native: Name of the original native file, including
TILE_INVINE	Board.Meeting.Willules.docx	extension
DATE SENT	10/12/2010	Email: Date the email was sent
DATE SERVE	10/12/2010	Native: (empty)
TIME SENT/TIME	07:05 PM GMT	Email: Time the email was sent/ Time zone in which
ZONE		the emails were standardized during conversion.
		Native: (empty)
		**This data must be a separate field and cannot be
		combined with the DATE_SENT field
TIME_ZONE	GMT	The time zone in which the emails were standardized
_		during conversion.
		Email: Time zone
		Native: (empty)
	·	

LINK	D:\001\EDC0000001.msg	Hyperlink to the email or native file document **The linked file must be named per the FIRSTBATES number
MIME_TYPE	application/msword	The content type of an email or native file document as identified/extracted from the header
FILE_EXTEN	MSG	The file type extension representing the email or native file document; will vary depending on the format
AUTHOR	John Smith	Email: (empty) Native: Author of the document
LAST_AUTHOR	Jane Doe	Email: (empty) Native: Last Author of the document
DATE_CREATED	10/10/2010	Email: (empty) Native: Date the document was created
TIME_CREATED/T IME_ZONE	10:25 AM GMT	Email: (empty) Native: Time the document was created including time zone **This data must be a separate field and cannot be combined with the DATE_CREATED field
DATE_MOD	10/12/2010	Email: (empty) Native: Date the document was last modified
TIME_MOD/TIME_ ZONE	07:00 PM GMT	Email: (empty) Native: Time the document was last modified including the time zone **This data must be a separate field and cannot be combined with the DATE_MOD field
DATE_ACCESSD	10/12/2010	Email: (empty) Native: Date the document was last accessed
TIME_ACCESSD/T IME_ZONE	07:00 PM GMT	Email: (empty) Native: Time the document was last accessed including the time zone **This data must be a separate field and cannot be combined with the DATE_ACCESSD field
PRINTED_DATE	10/12/2010	Email: (empty) Native: Date the document was last printed
FILE_SIZE	5,952	Size of native file document/email in KB
PGCOUNT	1	Number of pages in native file document/email
PATH	J:\Shared\SmithJ\October Agenda.doc	Email: (empty) Native: Path where native file document was stored including original file name.
INTFILEPATH	Personal Folders\Deleted Items\Board Meeting Minutes.msg	Email: original location of email including original file name. Native: (empty)
INTMSGID	<000805c2c71bS75977050Scb 8306d1@MSN>	Email: Unique Message ID Native: (empty)

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HEADER	Return-Path: <example_from@dc.edu> X-SpamCatcher-Score:1[X] Received:from[136.167.40.119] (HELO dc.edu) by fe3.dc.edu (CommuniGate Pro SMTP4.1.8) with ESMTP-TLS id 61258719 for example_to@mail.dc.edu; Mon, 23 Aug 2004 11:40:10 - 0400 Message-ID: <4129F3CA.2020509@dc.edu> Date: Mon, 23 Aug 2005 11:40:36 -400 From: Taylor Evans <example_from@dc.edu> User-Agent:Mozilla/5.0 (Windows;U; Windows NT 5.1: en-US;rv:1.0.1) Gecko/20020823 Netscape/7.0 X-Accept-Language:en-us,en MIME-Version:1.0 To: Jon Smith <example_to@mail.dc.edu> Subject:Business Development Meeting Content-Type: text/plain;charset=us-ascii; format=flowed Content-Transfer-Encoding:7bit</example_to@mail.dc.edu></example_from@dc.edu></example_from@dc.edu>	
SHA256	AD6128C5CA40164AF71A1E FC800E12D2F195CE07BB5F8 C813B0888A2DDE6A06F	SHA-256 hash value of the document.
OCRPATH	TEXT/001/EDC0000001.txt	Path to extracted text of the native file

Sample Image Cross-Reference File:

IMG000001,,E:\001\IMG0000001.TIF,Y,,,
IMG0000002,,E:\001\IMG0000002.TIF,,,,
IMG0000003,,E:\001\IMG0000003.TIF,,,,
IMG0000004,,E:\001\IMG0000005.TIF,Y,,,
IMG0000005,,E:\001\IMG0000005.TIF,Y,,,
IMG0000006,,E:\001\IMG0000006.TIF,,,,,

ADDENDUM B

For Electronic Phone Records, include the following fields in separate columns:

For Calls:

- 1) Account Number
- 2) Connection Date Date the call was received or made
- 3) Connection Time Time call was received or made
- 4) Seizure Time Time it took for the call to be placed in seconds
- 5) Originating Number Phone that placed the call
- 6) Terminating Number Phone that received the call
- 7) Elapsed Time The length of time the call lasted, preferably in seconds
- 8) End Time The time the call ended
- 9) Number Dialed Actual number dialed
- 10) IMEI Originating Unique id to phone used to make call
- 11) IMEI Terminating-Unique id to phone used to receive call
- 12) IMSI Originating Unique id to phone used to make call
- 13) IMSI Terminating- Unique id to phone used to receive call
- 14) Call Codes Identify call direction or other routing information
- 15) Time Zone Time Zone in which the call was received or placed, if applicable

For Text messages:

- 1) Account Number
- 2) Connection Date Date the text was received or made
- 3) Connection Time Time text was received or made
- 4) Originating Number Who placed the text
- 5) Terminating Number Who received the text
- 6) IMEI Originating Unique id to phone used to make text
- 7) IMEI Terminating—Unique id to phone used to receive text
- 8) IMSI Originating Unique id to phone used to make text
- 9) IMSI Terminating- Unique id to phone used to receive text
- 10) Text Code Identify text direction, or other text routing information
- 11) Text Type Code Type of text message (sent SMS, MMS, or other)
- 12) Time Zone Time Zone in which the call was received or placed, if applicable

For Mobile Data Usage:

- 1) Account Number
- Connection Date Date the data was received or made
- 3) Connection Time Time data was received or made
- 4) Originating number Number that used data
- 5) IMEI Originating Unique id of phone that used data
- 6) IMSI Originating Unique id of phone that used data
- 7) Data or Data codes Identify data direction, or other data routing information
- 8) Time Zone Time Zone in which the call was received or placed, if applicable

SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549

Supplemental Information for Persons Requested to Supply Information Voluntarily or Directed to Supply Information Pursuant to a Commission Subpoena

A. False Statements and Documents

Section 1001 of Title 18 of the United States Code provides that fines and terms of imprisonment may be imposed upon:

[W]hoever, in any matter within the jurisdiction of the executive, legislative, or judicial branch of the Government of the United States, knowingly and willfully--

- (1) falsifies, conceals, or covers up by any trick, scheme, or device a material fact;
- (2) makes any materially false, fictitious, or fraudulent statement or representation; or
- (3) makes or uses any false writing or document knowing the same to contain any materially false, fictitious, or fraudulent statement or entry.

Section 1519 of Title 18 of the United States Code provides that fines and terms of imprisonment may be imposed upon:

Whoever knowingly alters, destroys, mutilates, conceals, covers up, falsifies, or makes a false entry in any record, document, or tangible object with the intent to impede, obstruct, or influence the investigation or proper administration of any matter within the jurisdiction of any department or agency of the United States . . ., or in relation to or contemplation of any such matter.

B. Testimony

If your testimony is taken, you should be aware of the following:

- 1. Record. Your testimony will be transcribed by a reporter. If you desire to go off the record, please indicate this to the Commission employee taking your testimony, who will determine whether to grant your request. The reporter will not go off the record at your, or your counsel's, direction.
- 2. Counsel. You have the right to be accompanied, represented and advised by counsel of your choice. Your counsel may advise you before, during and after your testimony; question you briefly at the conclusion of your testimony to clarify any of the answers you give during testimony; and make summary notes during your testimony solely for your use. If you are accompanied by counsel, you may consult privately.

If you are not accompanied by counsel, please advise the Commission employee taking your testimony if, during the testimony, you desire to be accompanied, represented and advised by counsel. Your testimony will be adjourned once to afford you the opportunity to arrange to be so accompanied, represented or advised.

You may be represented by counsel who also represents other persons involved in the Commission's investigation. This multiple representation, however, presents a potential conflict of interest if one client's interests are or may be adverse to another's. If you are represented by counsel who also represents other persons involved in the investigation, the Commission will assume that you and counsel have discussed and resolved all issues concerning possible conflicts of interest. The choice of counsel, and the responsibility for that choice, is yours.

3. Transcript Availability. Rule 6 of the Commission's Rules Relating to Investigations, 17 CFR 203.6, states:

A person who has submitted documentary evidence or testimony in a formal investigative proceeding shall be entitled, upon written request, to procure a copy of his documentary evidence or a transcript of his testimony on payment of the appropriate fees: *Provided, however*, That in a nonpublic formal investigative proceeding the Commission may for good cause deny such request. In any event, any witness, upon proper identification, shall have the right to inspect the official transcript of the witness' own testimony.

If you wish to purchase a copy of the transcript of your testimony, the reporter will provide you with a copy of the appropriate form. Persons requested to supply information voluntarily will be allowed the rights provided by this rule.

4. *Perjury.* Section 1621 of Title 18 of the United States Code provides that fines and terms of imprisonment may be imposed upon:

Whoever--

(1) having taken an oath before a competent tribunal, officer, or person, in any case in which a law of the United States authorizes an oath to be administered, that he will testify, declare,

depose, or certify truly, or that any written testimony, declaration, deposition, or certificate by him subscribed, is true, willfully and contrary to such oath states or subscribes any material matter which he does not believe to be true; or

- (2) in any declaration, certificate, verification, or statement under penalty of perjury as permitted under section 1746 of title 28, United States Code, willfully subscribes as true any material matter which he does not believe to be true.
- 5. Fifth Amendment and Voluntary Testimony. Information you give may be used against you in any federal, state, local or foreign administrative, civil or criminal proceeding brought by the Commission or any other agency.

You may refuse, in accordance with the rights guaranteed to you by the Fifth Amendment to the Constitution of the United States, to give any information that may tend to incriminate you.

If your testimony is not pursuant to subpoena, your appearance to testify is voluntary, you need not answer any question, and you may leave whenever you wish. Your cooperation is, however, appreciated.

6. Formal Order Availability. If the Commission has issued a formal order of investigation, it will be shown to you during your testimony, at your request. If you desire a copy of the formal order, please make your request in writing.

C. Submissions and Settlements

Rule 5(c) of the Commission's Rules on Informal and Other Procedures, 17 CFR 202,5(c), states:

Persons who become involved in . . . investigations may, on their own initiative, submit a written statement to the Commission setting forth their interests and position in regard to the subject matter of the investigation. Upon request, the staff, in its discretion, may advise such persons of the general nature of the investigation, including the indicated violations as they pertain to them, and the amount of time that may be available for preparing and submitting a statement prior to the presentation of a staff recommendation to the Commission for the commencement of an administrative or injunction proceeding. Submissions by interested persons should be forwarded to the appropriate Division Director or Regional Director with a copy to the staff members conducting the investigation and should be clearly referenced to the specific investigation to which they relate. In the event a recommendation for the commencement of an enforcement proceeding is presented by the staff, any submissions by interested persons will be forwarded to the Commission in conjunction with the staff memorandum.

The staff of the Commission routinely seeks to introduce submissions made pursuant to Rule 5(c) as evidence in Commission enforcement proceedings, when the staff deems appropriate.

Rule 5(f) of the Commission's Rules on Informal and Other Procedures, 17 CFR 202.5(f), states:

In the course of the Commission's investigations, civil lawsuits, and administrative proceedings, the staff, with appropriate authorization, may discuss with persons involved the disposition of such matters by consent, by settlement, or in some other manner. It is the policy of the Commission, however, that the disposition of any such matter may not, expressly or impliedly, extend to any criminal charges that have been, or may be, brought against any such person or any recommendation with respect thereto. Accordingly, any person involved in an enforcement matter before the Commission who consents, or agrees to consent, to any judgment or order does so solely for the purpose of resolving the claims against him in that investigative, civil, or administrative matter and not for the purpose of resolving any criminal charges that have been, or might be, brought against him. This policy reflects the fact that neither the Commission nor its staff has the authority or responsibility for instituting, conducting, settling, or otherwise disposing of criminal proceedings. That authority and responsibility are vested in the Attorney General and representatives of the Department of Justice.

D. Freedom of Information Act

The Freedom of Information Act, 5 U.S.C. 552 (the "FOIA"), generally provides for disclosure of information to the public. Rule 83 of the Commission's Rules on Information and Requests, 17 CFR 200.83, provides a procedure by which a person can make a written request that information submitted to the Commission not be disclosed under the FOIA. That rule states that no determination as to the validity of such a request will be made until a request for disclosure of the information under the FOIA is received. Accordingly, no response to a request that information not be disclosed under the FOIA is necessary or will be given until a request for disclosure under the FOIA is received. If you desire an acknowledgment of receipt of your written request that information not be disclosed under the FOIA, please provide a duplicate request, together with a stamped, self-addressed envelope.

E. Authority for Solicitation of Information

Persons Directed to Supply Information Pursuant to Subpoena. The authority for requiring production of information is set forth in the subpoena. Disclosure of the information to the Commission is mandatory, subject to the valid assertion of any legal right or privilege you might have.

Persons Requested to Supply Information Voluntarily. One or more of the following provisions authorizes the Commission to solicit the information requested: Sections 19 and/or 20 of the Securities Act of 1933; Section 21 of the Securities Exchange Act of 1934; Section 321 of the Trust Indenture Act of 1939; Section 42 of the Investment Company Act of 1940; Section 209 of the Investment Advisers Act of 1940; and 17 CFR 202.5. Disclosure of the requested information to the Commission is voluntary on your part.

F. Effect of Not Supplying Information

Persons Directed to Supply Information Pursuant to Subpoena. If you fail to comply with the subpoena, the Commission may seek a court order requiring you to do so. If such an order is obtained and you thereafter fail to supply the information, you may be subject to civil and/or criminal sanctions for contempt of court. In addition, Section 21(c) of the Securities Exchange Act of 1934, Section 42(c) of the Investment Company Act of 1940, and Section 209(c) of the Investment Advisers Act of 1940 provide that fines and terms of imprisonment may be imposed upon any person who shall, without just cause, fail or refuse to attend and testify or to answer any lawful inquiry, or to produce books, papers, correspondence, memoranda, and other records in compliance with the subpoena.

Persons Requested to Supply Information Voluntarily. There are no direct sanctions and thus no direct effects for failing to provide all or any part of the requested information.

G. Principal Uses of Information

The Commission's principal purpose in soliciting the information is to gather facts in order to determine whether any person has violated, is violating, or is about to violate any provision of the federal securities laws or rules for which the Commission has enforcement authority, such as rules of securities exchanges and the rules of the Municipal Securities Rulemaking Board. Facts developed may, however, constitute violations of other laws or rules. Information provided may be used in Commission and other agency enforcement proceedings. Unless the Commission or its staff explicitly agrees to the contrary in writing, you should not assume that the Commission or its staff acquiesces in, accedes to, or concurs or agrees with, any position, condition, request, reservation of right, understanding, or any other statement that purports, or may be deemed, to be or to reflect a limitation upon the Commission's receipt, use, disposition, transfer, or retention, in accordance with applicable law, of information provided.

H. Routine Uses of Information

The Commission often makes its files available to other governmental agencies, particularly United States Attorneys and state prosecutors. There is a likelihood that information supplied by you will be made available to such agencies where appropriate. Whether or not the Commission makes its files available to other governmental agencies is, in general, a confidential matter between the Commission and such other governmental agencies.

Set forth below is a list of the routine uses which may be made of the information furnished.

- 1. To appropriate agencies, entities, and persons when (1) the SEC suspects or has confirmed that there has been a breach of the system of records, (2) the SEC has determined that as a result of the suspected or confirmed breach there is a risk of harm to individuals, the SEC (including its information systems, programs, and operations), the Federal Government, or national security; and (3) the disclosure made to such agencies, entities, and persons is reasonably necessary to assist in connection with the SEC's efforts to respond to the suspected or confirmed breach or to prevent, minimize, or remedy such harm.
- 2. To other Federal, state, local, or foreign law enforcement agencies; securities self-regulatory organizations; and foreign financial regulatory authorities to assist in or coordinate regulatory or law enforcement activities with the SEC.
- 3. To national securities exchanges and national securities associations that are registered with the SEC, the Municipal Securities Rulemaking Board; the Securities Investor Protection Corporation; the Public Company Accounting Oversight Board; the Federal banking authorities, including, but not limited to, the Board of Governors of the Federal Reserve System, the Comptroller of the Currency, and the Federal Deposit Insurance Corporation; state securities regulatory agencies or organizations; or regulatory authorities of a foreign government in connection with their regulatory or enforcement responsibilities.
- 4. By SEC personnel for purposes of investigating possible violations of, or to conduct investigations authorized by, the Federal securities laws.
- 5. In any proceeding where the Federal securities laws are in issue or in which the Commission, or past or present members of its staff, is a party or otherwise involved in an official capacity.
- 6. In connection with proceedings by the Commission pursuant to Rule 102(e) of its Rules of Practice, 17 CFR 201.102(e).

- 7. To a bar association, state accountancy board, or other Federal, state, local, or foreign licensing or oversight authority; or professional association or self-regulatory authority to the extent that it performs similar functions (including the Public Company Accounting Oversight Board) for investigations or possible disciplinary action.
- 8. To a Federal, state, local, tribal, foreign, or international agency, if necessary to obtain information relevant to the SEC's decision concerning the hiring or retention of an employee; the issuance of a security clearance; the letting of a contract; or the issuance of a license, grant, or other benefit.
- 9. To a Federal, state, local, tribal, foreign, or international agency in response to its request for information concerning the hiring or retention of an employee; the issuance of a security clearance; the reporting of an investigation of an employee; the letting of a contract; or the issuance of a license, grant, or other benefit by the requesting agency, to the extent that the information is relevant and necessary to the requesting agency's decision on the matter.
- 10. To produce summary descriptive statistics and analytical studies, as a data source for management information, in support of the function for which the records are collected and maintained or for related personnel management functions or manpower studies; may also be used to respond to general requests for statistical information (without personal identification of individuals) under the Freedom of Information Act.
- 11. To any trustee, receiver, master, special counsel, or other individual or entity that is appointed by a court of competent jurisdiction, or as a result of an agreement between the parties in connection with litigation or administrative proceedings involving allegations of violations of the Federal securities laws (as defined in section 3(a)(47) of the Securities Exchange Act of 1934, 15 U.S.C. 78c(a)(47)) or pursuant to the Commission's Rules of Practice, 17 CFR 201.100 through 900 or the Commission's Rules of Fair Fund and Disgorgement Plans, 17 CFR 201.1100 through 1106, or otherwise, where such trustee, receiver, master, special counsel, or other individual or entity is specifically designated to perform particular functions with respect to, or as a result of, the pending action or proceeding or in connection with the administration and enforcement by the Commission of the Federal securities laws or the Commission's Rules of Practice or the Rules of Fair Fund and Disgorgement Plans.
- 12. To any persons during the course of any inquiry, examination, or investigation conducted by the SEC's staff, or in connection with civil litigation, if the staff has reason to believe that the person to whom the record is disclosed may have further information about the matters related therein, and those matters appeared to be relevant at the time to the subject matter of the inquiry.
- 13. To interns, grantees, experts, contractors, and others who have been engaged by the Commission to assist in the performance of a service related to this system of records and who need access to the records for the purpose of assisting the Commission in the efficient administration of its programs, including by performing clerical, stenographic, or data analysis functions, or by reproduction of records by electronic or other means. Recipients of these records shall be required to comply with the requirements of the Privacy Act of 1974, as amended, 5 U.S.C.
- 14. In reports published by the Commission pursuant to authority granted in the Federal securities laws (as such term is defined in section 3(a)(47) of the Securities Exchange Act of 1934, 15 U.S.C. 78c(a)(47)), which authority shall include, but not be limited to, section 21(a) of the Securities Exchange Act of 1934, 15 U.S.C. 78u(a)).
- 15. To members of advisory committees that are created by the Commission or by Congress to render advice and recommendations to the Commission or to Congress, to be used solely in connection with their official designated functions.
- 16. To any person who is or has agreed to be subject to the Commission's Rules of Conduct, 17 CFR 200.735-1 through 200.735-18, and who assists in the investigation by the Commission of possible violations of the Federal securities laws (as such term is defined in section 3(a)(47) of the Securities Exchange Act of 1934, 15 U.S.C. 78c(a)(47)), in the preparation or conduct of enforcement actions brought by the Commission for such violations, or otherwise in connection with the Commission's enforcement or regulatory functions under the Federal securities laws.
- 17. To a Congressional office from the record of an individual in response to an inquiry from the Congressional office made at the request of that individual.
- 18. To members of Congress, the press, and the public in response to inquiries relating to particular Registrants and their activities, and other matters under the Commission's jurisdiction.
- 19. To prepare and publish information relating to violations of the Federal securities laws as provided in 15 U.S.C. 78c(a)(47)), as amended.
- 20. To respond to subpoenas in any litigation or other proceeding.
- 21. To a trustee in bankruptcy.
- 22. To any governmental agency, governmental or private collection agent, consumer reporting agency or commercial reporting agency, governmental or private employer of a debtor, or any other person, for collection,

including collection by administrative offset, Federal salary offset, tax refund offset, or administrative wage garnishment, of amounts owed as a result of Commission civil or administrative proceedings.

23. To another Federal agency or Federal entity, when the SEC determines that information from this system of records is reasonably necessary to assist the recipient agency or entity in (1) responding to a suspected or confirmed breach or (2) preventing, minimizing, or remedying the risk of harm to individuals, the recipient agency or entity (including its information systems, programs, and operations), the Federal Government, or national security, resulting from a suspected or confirmed breach.

* * * * *

Small Business Owners: The SEC always welcomes comments on how it can better assist small businesses. If you would like more information, or have questions or comments about federal securities regulations as they affect small businesses, please contact the Office of Small Business Policy, in the SEC's Division of Corporation Finance, at 202-551-3460. If you would prefer to comment to someone outside of the SEC, you can contact the Small Business Regulatory Enforcement Ombudsman at http://www.sba.gov/ombudsman or toll free at 888-REG-FAIR. The Ombudsman's office receives comments from small businesses and annually evaluates federal agency enforcement activities for their responsiveness to the special needs of small business.

To: Cc:	info@chainsafe.iolinfo@chainsafe.io] (b)(6); (b)(7)(4)SE 1:24-Chase 2:26-Chy; (b)(6); (b)(9)(4)(1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-
From:	(b)(6); (b)(7)(C)
Sent:	2024-02-27T18:58:31Z
Subject:	SMAIL C-8950 Document Request
Received:	: 2024-02-27T18:58:37Z
2024.02.2	27 C-8950 ChainSafe Vol Req.pdf
Good aft	ternoon,
Please se	ee attached a document request from the U.S. Securities and Exchange Commission.
Thank yo	ou,

(b)(6); (b)(7)(C) Division of Enforcement 100 Pearl Street, Suite 20-100 New York, NY 10004

 OFFICE
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U.S. Securities and Exchange Commission



UNITED STATES SECURITIES AND EXCHANGE COMMISSION

100 PEARL STREET, SUITE 20-100 NEW YORK, NY 10004-2616

DIVISION OF ENFORCEMENT

February 27, 2024

VIA email info@chainsafe.io ChainSafe Systems Inc. 251 Spadina Avenue Toronto, Ontario M5T 2E2

Re: C-08950

To Whom It May Concern:

The staff of the United States Securities and Exchange Commission is conducting an investigation relating to the above-referenced matter to determine if violations of the federal securities laws have occurred. In connection with this investigation, the staff requests that ChainSafe Systems Inc. ("ChainSafe") immediately preserve, and voluntarily provide us with, the information and documents set forth in Attachment A on or before **March 12, 2024 at 5:00 pm ET**.

Please send the materials electronically to enf-cpu@sec.gov with a copy to bec.gov, bec.gov, bec.gov, bec.gov, bec.gov, and bec.gov, and bec.gov, and bec.gov. If you would like to use the Commission's secure electronic transfer site, Accellion/Kiteworks, please contact me and I will send you a link. If you prefer to send the materials on DVD or other electronic media, please send them to:

ENF-CPU (U.S. Securities & Exchange Commission) 14420 Albermarle Point Pl. Suite 102 Chantilly, VA 20151-1750

Please carefully read the attachment, which contains, among other things, important instructions related to the manner of producing documents. In particular, if you prefer to send us copies of original documents, the staff requests that you scan and produce hard copy documents, as well as electronic documents, in an electronic format consistent with the SEC Data Delivery Standards attached hereto. All electronic documents responsive to the document request, including all metadata, should also be produced in their native software format. If you have any questions concerning the production of documents in an electronic format, please contact me as soon as possible and in any event before producing documents.

In your cover letter(s) accompanying the production of responsive documents, please enclose a list briefly describing each item you send. The list should state to which paragraph(s) in the attachment each item responds. Please also state in the cover letter(s) whether you believe you have met your obligations under the document request by searching carefully and thoroughly for everything called for by the request, and sending it all to us. Correspondence should reference case number, case name and requesting SEC staff member.

Please also provide a narrative description describing what was done to identify and collect documents responsive to the request. At a minimum, the narrative should describe:

- who searched for documents;
- who reviewed documents found to determine whether they were responsive;
- which custodians were searched;
- what sources were searched (e.g., computer files, CDs, DVDs, thumb drives, flash drives, online storage media, hard copy files, diaries, datebooks, planners, filing cabinets, storage facilities, home offices, work offices, voice mails, home email, webmail, work email, backup tapes or other media);
- what search terms, if any, were employed to identify responsive documents;
- what firms and/or persons, if any, assisted in analyzing the data collected;
- what third parties, if any, were contacted to obtain responsive documents (e.g., phone companies for phone records, brokerage firms for brokerage records); and
- where the original electronic and hardcopy documents are maintained and by whom.

Also attached is a Business Records Declaration. Execution of this declaration may allow the Commission to introduce documents provided by you in any subsequent judicial proceeding, without requiring the testimony of your custodian of records should the documents be required at trial.

This investigation is a non-public, fact-finding inquiry. The investigation does not mean that we have concluded that you or anyone else has violated the law. Also, the investigation does not mean that we have a negative opinion of any person, entity, or security. Enclosed is a copy of the Commission's Form 1662 entitled "Supplemental Information for Persons Requested to Supply Information Voluntarily or Directed to Supply Information Pursuant to a Commission Subpoena." Form 1662 explains how we may use the information you provide to the Commission and has other important information for you.

Thank you in advance for your anticipated cooperation. If you have any questions or would like to discuss this matter, you may contact me at (b)(6); esec.gov.

Sincerely,
(b)(6); (b)(7)(C)
Division of Enforcement
(b)(6); (b)(7)(C) (c)sec.gov

Enclosures: Attachment A

SEC Data Delivery Standards SEC Form 1662

Business Records Certification

ATTACHMENT FOR CHAINSAFE SYSTEMS INC.

C-08950

February 27, 2024

Definitions

As used in this subpoena, the words and phrases listed below shall have the following meanings:

- 1. "Relevant Period" means July 1, 2018 to the present.
- 2. "ChainSafe" means the entity doing business under the name ChainSafe Systems Inc. or Node Factory, parents, subsidiaries, affiliates, predecessors, successors, officers, directors, employees, agents, general partners, limited partners, partnerships and aliases, code names, or trade or business names used by any of the foregoing.
- 3. The "Ethereum Foundation" means the entity or business doing business under the name Ethereum Foundation, including, but not limited to, ethereum.org, the Ethereum Support Program, and parents, subsidiaries, affiliates, predecessors, successors, officers, directors, employees, agents, general partners, limited partners, partnerships and aliases, owners, code names, or trade or business names used by any of the foregoing.
- 4. "The Merge" or "Ethereum 2.0" means the transition by the Ethereum blockchain of its consensus mechanism from proof-of-work to proof-of-stake.
- "Beacon Chain" means the original proof-of-stake blockchain that was launched in 2020 5. that ran alongside the original proof-of-work Ethereum blockchain.
- 6. "Document" shall include, but is not limited to, any written, printed, or typed matter including, but not limited to all drafts and copies bearing notations or marks not found in the original, letters and correspondence, interoffice communications, slips, tickets, records, worksheets, financial records, accounting documents, bookkeeping documents, memoranda, reports, manuals, telephone logs, facsimiles, messages of any type, telephone messages, text messages, voice mails, tape recordings, notices, instructions, minutes, summaries, notes of meetings, file folder markings, and any other organizational indicia, purchase orders, information recorded by photographic process, including microfilm and microfiche, computer printouts, spreadsheets, and other electronically stored information, including writings, drawings, graphs, charts, photographs, sound recordings, images, and other data or data compilations that are stored in any medium from which information can be retrieved, obtained, manipulated, or translated.
- 7. "Communication" means any correspondence, contact, discussion, e-mail, instant message, or any other kind of oral or written exchange or transmission of information (in the form of facts, ideas, inquiries, or otherwise), including but not limited to those made on Social Media Services, and any response thereto between two or more Persons or entities, including, without limitation, all telephone conversations, face-to-face meetings

or conversations, internal or external discussions, or exchanges of a Document or Documents.

- 8. "Concerning" means directly or indirectly, in whole or in part, describing, constituting, evidencing, recording, evaluating, substantiating, concerning, referring to, alluding to, in connection with, commenting on, relating to, regarding, discussing, showing, analyzing or reflecting.
- 9. "Agreement" means any actual or contemplated (i) written or oral Agreement; (ii) term or provision of such Agreement; or (iii) amendment of any nature or termination of such Agreement. A request for any Agreement among or between specified parties includes a request for all Documents Concerning (i) any actual or contemplated Agreement among or between such parties, whether or not such Agreement included any other Person; (ii) the drafting or negotiation of any such Agreement; (iii) any actual or contemplated demand, request or application for any such Agreement, and any response thereto; and (iv) any actual or contemplated objection or refusal to enter into any such Agreement, and any response thereto.
- 10. "Bank or Financial Account" means the domestic or foreign bank, brokerage, or financial accounts held, controlled, or used by you or by other people on your behalf. This includes, but is not limited to, accounts that contain currency, securities, or crypto assets.
- 11. "Person" means a natural person, firm, association, organization, partnership, business, trust, corporation, bank or any other private or public entity.
- 12. The term "you" and "your" means the Person to whom or entity to which this subpoena was issued.
- 13. To the extent necessary to bring within the scope of this this subpoena any information or Documents that might otherwise be construed to be outside its scope:
 - a. the word "or" means "and/or";
 - b. the word "and" means "and/or";
 - c. the functional words "each," "every" "any" and "all" shall each be deemed to include each of the other functional words;
 - d. the masculine gender includes the female gender and the female gender includes the masculine gender; and
 - e. the singular includes the plural and the plural includes the singular.

Instructions

1. Unless otherwise specified, the Document request calls for production of the original Documents and all copies and drafts of same. Documents responsive to this request may be in electronic or paper form. Electronic Documents such as email should be produced in accordance with the attached document entitled SEC Data Delivery Standards. All electronic Documents responsive to the Document request, including all metadata, should

also be produced in their native software format.

- 2. For Documents in paper format, you may send the originals, or, if you prefer, you may send copies of the originals. The Commission cannot reimburse you for the copying costs. If you are sending copies, the staff requests that you scan (rather than photocopy) hard copy Documents and produce them in an electronic format consistent with the SEC Data Delivery Standards. Alternatively, you may send us photocopies of the Documents in paper format. If you choose to send copies, you must secure and retain the originals and store them in a safe place. The staff may later request or require that you produce the originals.
- 3. Whether you scan or photocopy Documents, the copies must be identical to the originals, including even faint marks or print. Also, please note that if copies of a Document differ in any way, they are considered separate Documents and you must send each one. For example, if you have two copies of the same letter, but only one of them has handwritten notes on it, you must send both the clean copy and the one with notes.
- 4. In producing a photocopy of an original Document that contains post-it(s), notation flag(s), or other removable markings or attachments which may conceal all or a portion of the markings contained in the original Document, photocopies of the original Document both with and without the relevant post-it(s), notation flag(s), or removable markings or attachments should be produced.
- 5. Documents should be produced as they are kept in the ordinary course of business or be organized and labeled to correspond with the categories in this request. In that regard, Documents should be produced in a unitized manner, *i.e.*, delineated with staples or paper clips to identify the Document boundaries.
- 6. Documents should be labeled with sequential numbering (bates-stamped).
- 7. The scope of any given request should not be limited or narrowed based on the fact that it calls for Documents that are responsive to another request.
- 8. You are not required to produce exact duplicates of any Documents that have been previously produced to the Securities and Exchange Commission staff in connection with this matter. If you are not producing Documents based upon a prior production, please identify the responsive Documents that were previously produced.
- 9. This request covers all Documents in or subject to your possession, custody or control, including all Documents that are not in your immediate possession but that you have the effective ability to obtain, that are responsive, in whole or in part, to any of the individual requests set forth below. If, for any reason—including a claim of attorney-client privilege—you do not produce something called for by the request, you should submit a list of what you are not producing. The list should be produced as an Excel file and describe each item separately, noting:

- a. its author(s);
- b. its date;
- c. its subject matter;
- d. the name of the Person who has the item now, or the last Person known to have it;
- e. the names of everyone who ever had the item or a copy of it, and the names of everyone who was told the item's contents;
- f. the basis upon which you are not producing the responsive Document;
- g. the specific request in the request to which the Document relates;
- h. the attorney(s) and the client(s) involved; and
- i. in the case of the work product doctrine, the litigation for which the Document was prepared in anticipation.
- 10. If Documents responsive to this request no longer exist because they have been lost, discarded, or otherwise destroyed, you should identify such Documents and give the date on which they were lost, discarded or destroyed.

Documents to be Produced

- 1. All Agreements between ChainSafe and the Ethereum Foundation;
- 2. All Documents and Communications Concerning any grant or other source of funding received from the Ethereum Foundation;
- 3. All Documents and Communications Concerning any work conducted by ChainSafe pursuant to any grant or other source of funding received from the Ethereum Foundation;
- 4. Documents sufficient to identify ChainSafe crypto asset wallet addresses or Bank or Financial Accounts, located within or outside the U.S., that received any grant or other source of funding from the Ethereum Foundation, as well as the amount of crypto assets or flat received;
- 5. Documents sufficient to identify all meetings with the Ethereum Foundation, including any Documents related to the meetings identified;
- 6. All Communications with the Ethereum Foundation, including, but not limited to, Communications with board members, consultants, officers, directors, employees, developers, coders, and others performing work on behalf of these entities, related to The Merge or the Beacon Chain.

DECLARATION OF [Insert Name] CERTIFYING RECORDS OF REGULARLY CONDUCTED BUSINESS ACTIVITY

I, the undersigned, [insert name], pursuant to 28 U.S.C. § 1746, declare that:

- 1. I am employed by ChainSafe as [insert position] and by reason of my position am authorized and qualified to make this declaration. [if possible supply additional information as to how person is qualified to make declaration, e.g., I am custodian of records, I am familiar with the company's recordkeeping practices or systems, etc.]
- 2. I further certify that the documents [attached hereto or submitted herewith] and stamped [insert bates range] are true copies of records that were:
 - (a) made at or near the time of the occurrence of the matters set forth therein, by, or from information transmitted by, a person with knowledge of those matters;
 - (b) kept in the course of regularly conducted business activity; and
 - (c) made by the regularly conducted business activity as a regular practice.

I declare under penalty of perjury that the foregoing is true and correct. Executed on [date].

[Name]	



U.S. Securities and Exchange Commission

Data Delivery Standards

This document describes the technical requirements for paper and electronic document productions to the U.S. Securities and Exchange Commission (SEC). **Any questions or proposed file formats other than those described below must be discussed with the legal and technical staff of the SEC Division of Enforcement prior to submission. **

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General Instructions

Congred Instructions

The current mailing address for all physical productions sent to the SEC is:

ENF-CPU (U.S. Securities & Exchange Commission), 14420 Albemarle Point Place, Suite 102, Chantilly, VA 20151-1750

Electronic files must be produced in their native format, i.e. the format in which they are ordinarily used and maintained during the normal course of business. For example, an MS Excel file must be produced as an MS Excel file rather than an image of a spreadsheet. (Note: An Adobe PDF file is not considered a native file unless the document was initially created as a PDF.)

In the event produced files require the use of proprietary software not commonly found in the workplace, the SEC will explore other format options with the producing party.

The proposed use of file de-duplication methodologies or computer-assisted review or technology-assisted review (TAR) during the processing of documents must be discussed with and approved by the legal and technical staff of the Division of Enforcement (ENF). If your production will be de-duplicated it is vital that you 1) preserve any unique metadata associated with the duplicate files, for example, custodian name and file location and, 2) make that unique metadata part of your production to the SEC.

General requirements for ALL document productions are:

- 1. A cover letter must be included with each production and should include the following information:
 - Case number, case name and requesting SEC staff member name
 - b. A list of each piece of media included in the production with its unique production volume number
 - c. A list of custodians, identifying the Bates range for each custodian
 - d. A list of redacted documents and the redaction reason
 - c. The time zone in which the emails were standardized during conversion
 - f. Whether the production contains native files produced from Mac operating system environments
- Data can be produced on CD, DVD, thumb drive, etc., using the media requiring the least number of deliverables and labeled with the following:
 - a. Case number
 - b. Production date
 - c. Producing party
 - d. Bates range (if applicable)
- All submissions must be organized by custodian unless otherwise instructed.
- All document family groups, i.e. email attachments, embedded files, etc., should be produced together and children files should follow parent files sequentially in the Bates numbering.
- All load-ready collections should include only one data load file and one image pointer file.
- All load-ready text must be produced as separate document-level text files.
- All load-ready collections should account for custodians in the custodian field.
- 8. All load-ready collections must provide the extracted contents of any container files to ensure all relevant files are produced as separate records.
- Audio files should be separated from data files if both are included in the production.
- 10. Only alphanumeric characters and the underscore character are permitted in file names and folder names. Special characters are not permitted.
- 11. All electronic productions submitted on media must be produced using industry standard self-extracting encryption software.
- 12. The SEC uses 7zip to access compressed files. Note that the SEC cannot accept files that use AES-256 Jpeg or pkAES-256-Cert Deflate compression methods, even if the files are created with 7zip. If you have any questions or need additional information, please reach out to the requesting SEC staff member.
- 13. Electronic productions of 30 GB or less are strongly encouraged to be submitted via Secure File Transfer. All Secure File Transfers should be sent to the SEC Centralized Production Unit (ENF-CPU@sec.gov) with a CC to the requesting SEC staff member. If you do not have your own Secure File Transfer application, you may reach out to the requesting SEC staff member for a link to the SEC system in order to upload your production. If using the SEC Secure File Transfer system, you will NOT be able to CC individuals outside the SEC on your upload transmission. Note that the SEC cannot accept productions made using file sharing sites such as Google Drive or Microsoft Office 365.
- 14. Productions containing BSA or SAR material must be encrypted. Secure File Transfer applications may be used to produce BSA or SAR material. BSA or SAR material should be segregated and appropriately marked as BSA or SAR, or should be produced separately from other case related records.
- 15. Passwords for electronic documents, files, compressed archives and encrypted media must be provided separately either via email or in a cover letter apart from the media.
- 16. All electronic productions should be produced free of computer viruses.
- 17. Before producing forensically collected images, parties should reach out to the requesting SEC staff member in order to discuss appropriate handling.
- 18. Before producing unique data sets (large sets of relational data, website reconstruction, chat room data, etc.), parties should reach out to the requesting SEC staff member in order to discuss an appropriate production format.
- Additional technical descriptions can be found in the addendum to this document.

Please note that productions sent to the SEC via United States Postal Service are subject to Mail Irradiation, and as a result electronic productions may be damaged.

Delivery Formats

Imaged Productions

The SEC prefers that all scanned paper and electronic file collections be produced in a structured format including industry standard load files, Bates numbered image files, native files and searchable document-level text files. Bates numbers should not contain spaces. Hyphens (-) and underscores (-) are acceptable.

1. Images

- Black and white images must be 300 DPI Group IV single-page TIFF files
- b. Color images must be produced in JPEG format
- File names cannot contain embedded spaces or special characters (including the comma)
- d. Folder names cannot contain embedded spaces or special characters (including the comma)
- e. All image files must have a unique file name, i.e. Bates number
- f. Images must be endorsed with sequential Bates numbers in the lower right corner of each image
- The number of image files per folder should not exceed 2,000 files g.
- h. Excel spreadsheets should have a placeholder image named by the Bates number of the file
- AUTOCAD/photograph files should be produced as a single page JPEG file

2. Image Cross-Reference File

The image cross-reference file (LOG or .OPT) links the images to the database records. It should be a comma-delimited file consisting of seven fields per line with a line in the cross-reference file for every image in the database with the following format:

ImageID, VolumeLabel, ImageFilePath, DocumentBreak, FolderBreak, BoxBreak, PageCount

3. Data File

The data file (.DAT) contains all of the fielded information that will be loaded into the database.

- The first line of the .DAT file must be a header row identifying the field names
- The .DAT file must use the following *Concordance*® default delimiters:

Comma ¶ ASCII character (020)

Quote b ASCII character (254)

- c. If the .DAT file is produced in Unicode format it must contain the byte order marker
- d. Date fields should be provided in the format: mm/dd/yyyy
- Date and time fields must be two separate fields
- The time zone must be included in all time fields f.
- If the production includes imaged emails and attachments, the attachment fields must be included to preserve the parent/child relationship between an email and its attachments
- An OCRPATH field must be included to provide the file path and name of the extracted text file on the produced storage media. The text file must be named after the FIRSTBATES. Do not include the text in the .DAT file.
- For productions with native files, a LINK field must be included to provide the file path and name of the native file on the produced storage media. The native file must be named after the FIRSTBATES.
- BEGATTACH and ENDATTACH fields must be two separate fields
- A complete list of metadata fields is available in Addendum A to this document

4. Text

Text must be produced as separate document-level text files, not as fields within the .DAT file. The text files must be named per the FIRSTBATES/Image Key and the full path to the text file (OCRPATII) should be included in the .DAT file. Text files may be in either ANSI or Unicode format, however, ALL text files must be in the same format within the same production. Note that productions containing text with foreign characters must produce text files in Unicode format to preserve the foreign characters. Text files must be in a separate folder, and the number of text files per folder should not exceed 2,000 files. There should be no special characters (including commas) in the folder names. For redacted documents, provide the full text for the redacted version.

Linked Native Files

Copies of original email and native file documents/attachments must be included for all electronic productions.

- a. Native file documents must be named per the FIRSTBATES number
- b. The full path of the native file must be provided in the .DAT file for the LINK field
- The number of native files per folder should not exceed 2,000 files

II. Native File Production without Load Files

With prior approval, native files may be produced without load files. Native file productions should not be Bates numbered. Native files must be produced as they are maintained in the normal course of business and organized by custodian-named file folders. Native email files (.PST or .MBOX) must be separated by custodian.

III. Adobe PDF File Production

With prior approval, Adobe PDF files may be produced in native file format.

- 1. All PDFs must be unitized at the document level, i.e. each PDF must represent a discrete document.
- 2. PDF files should be produced in separate folders named by the custodian. The folders should not contain any special characters (including commas).
- 3. All PDF files must contain embedded text that includes all discernible words within the document, not selected text or image only. This requires all layers of the PDF to be flattened first.
- 4. If PDF files are Bates endorsed, the PDF files must be named by the Bates range.

IV. Audio Files

Audio files from telephone recording systems must be produced in a format that is playable using Microsoft Windows Media PlayerTM. Additionally, the call information (metadata) related to each audio recording MUST be provided. The metadata file must be produced in a delimited text format. Field names must be included in the first row of the text file. The metadata must include, at a minimum, the following fields:

1) Caller Name: Caller's name or account/identification number

2) Originating Number: Caller's phone number3) Called Party Name: Called party's name

4) Terminating Number: Called party's phone number

5) Date: Date of call6) Time: Time of call

7) Filename: Filename of audio file

V. Video Files

Video files must be produced in a format that is playable using Microsoft Windows Media PlayerTM.

VI. Electronic Trade and Bank Records

When producing electronic trade records, bank records, or financial statements, provide the files in one of the following formats:

- 1. MS Excel spreadsheet with header information detailing the field structure. If any special codes exist in the dataset, a separate document must be provided that details all such codes. If details of the field structure do not fit in the header, a separate document must be provided that includes such details.
- 2. Delimited text file with header information detailing the field structure. The preferred delimiter is a vertical bar "|". If any special codes exist in the dataset, a separate document must be provided that details all such codes. If details of the field structure do not fit in the header, a separate document must be provided that includes such details.

VII. Electronic Phone Records

When producing an MS Excel spreadsheet for electronic phone records, provide the files in the following format:

- 1. MS Excel spreadsheet with header information detailing the field structure. If any special codes exist in the dataset, a separate document must be provided that details all such codes. If details of the field structure do not fit in the header, a separate document must be provided that includes such details. Data must be formatted in its native format (i.e. dates in a date format, numbers in an appropriate numerical format, and numbers with leading zeroes as text).
 - a. The metadata that must be included is outlined in **Addendum B** of this document. Each field of data must be loaded into a separate column. For example, Date and Start_Time must be produced in separate columns and not combined into a single column containing both pieces of information. Any fields of data that are provided in addition to those listed in **Addendum B** must also be loaded into separate columns.

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Data Delivery Standards

VIII. Audit Workpapers

The SEC prefers for workpapers to be produced in two formats: (1) With Bates numbers in accordance with the SEC Data Delivery Standards; and (2) in native format via laptop computer, web-based viewing platform, or otherwise, allowing for viewing in the same format and organization as the firm's audit team. Prior to production of workpapers via laptop computer or web-based viewing platform, audit firms should contact the requesting SEC staff member for additional information and written agreements addressing use of software, access, and viewing protocols.

IX. Mobile Device Data

Before producing any mobile device data (including but not limited to text messages and application data) parties should reach out to the requesting SEC staff member in order to discuss the appropriate production format. Productions containing chat data from applications must be identified at the time of production and the following information must be provided to the requesting SEC staff member and the SEC Centralized Production Unit: chat application, chat data format, and how the length of a chat is determined (i.e. set duration of time, number of minutes without messages, etc.)

ADDENDUM A

The metadata of electronic document collections should be extracted and provided in a .DAT file using the field definition and formatting described below:

Field Name	Sample Data	Description
FIRSTBATES	EDC0000001	First Bates number of native file document/email
LASTBATES	EDC0000001	Last Bates number of native file document/email
		**The LASTBATES field should be populated
		for single page documents/emails.
ATTACHRANGE	EDC0000001 - EDC0000015	Bates number of the first page of the parent
		document to the Bates number of the last page of the
		last attachment "child" document
BEGATTACH	EDC0000001	First Bates number of attachment range
ENDATTACH	EDC0000015	Last Bates number of attachment range
PARENT_BATES	EDC0000001	First Bates number of parent document/Email **This PARENT_BATES field should be populated in each record representing an attachment "child" document
CHILD BATES	EDC0000002; EDC0000014	First Bates number of "child" attachment(s); can be
_	·	more than one Bates number listed depending on the
		number of attachments
		**The CHILD_BATES field should be populated in
		each record representing a "parent" document
CUSTODIAN	Smith, John	Email: Mailbox where the email resided
		Native: Name of the individual or department from whose files the document originated
FROM	John Smith	Email: Sender
		Native: Author(s) of document
		**semi-colon should be used to separate multiple entries
ТО	Coffman, Janice; LeeW	Recipient(s)
	[mailto:LeeW@MSN.com]	**scmi-colon should be used to separate multiple entries
CC	Frank Thompson [mailto:	Carbon copy recipient(s)
	frank_Thompson@cdt.com]	**semi-colon should be used to separate multiple
		entries
BCC	John Cain	Blind carbon copy recipient(s)
		**semi-colon should be used to separate multiple
		entries
SUBJECT	Board Meeting Minutes	Email: Subject line of the email
		Native: Title of document (if available)
FILE_NAME	BoardMeetingMinutes.docx	Native: Name of the original native file, including
		extension
DATE_SENT	10/12/2010	Email: Date the email was sent
		Native: (empty)
TIME_SENT/TIME	07:05 PM GMT	Email: Time the email was sent/ Time zone in which
_ZONE		the emails were standardized during conversion.
		Native: (empty)
		**This data must be a separate field and cannot be
TIME ZONE	CMT	combined with the DATE_SENT field
TIME_ZONE	GMT	The time zone in which the emails were standardized
		during conversion. Email: Time zone
		Native: (empty)
		(marvo, (empty)

LINK	D:\001\EDC0000001.msg	Hyperlink to the email or native file document **The linked file must be named per the FIRSTBATES number
MIME_TYPE	application/msword	The content type of an email or native file document as identified/extracted from the header
FILE_EXTEN	MSG	The file type extension representing the email or native file document; will vary depending on the format
AUTHOR	John Smith	Email: (empty) Native: Author of the document
LAST_AUTHOR	Jane Doe	Email: (empty) Native: Last Author of the document
DATE_CREATED	10/10/2010	Email: (empty) Native: Date the document was created
TIME_CREATED/T IME_ZONE	10:25 AM GMT	Email: (empty) Native: Time the document was created including time zone **This data must be a separate field and cannot be combined with the DATE_CREATED field
DATE_MOD	10/12/2010	Email: (empty) Native: Date the document was last modified
TIME_MOD/TIME_ ZONE	07:00 PM GMT	Email: (empty) Native: Time the document was last modified including the time zone **This data must be a separate field and cannot be combined with the DATE_MOD field
DATE_ACCESSD	10/12/2010	Email: (empty) Native: Date the document was last accessed
TIME_ACCESSD/T IME_ZONE	07:00 PM GMT	Email: (empty) Native: Time the document was last accessed including the time zone **This data must be a separate field and cannot be combined with the DATE_ACCESSD field
PRINTED_DATE	10/12/2010	Email: (empty) Native: Date the document was last printed
FILE_SIZE	5,952	Size of native file document/email in KB
PGCOUNT	1	Number of pages in native file document/email
PATH	J:\Shared\SmithJ\October Agenda.doc	Email: (empty) Native: Path where native file document was stored including original file name.
INTFILEPATH	Personal Folders\Deleted Items\Board Meeting Minutes.msg	Email: original location of email including original file name. Native: (empty)
INTMSGID	<000805c2c71bS75977050Scb 8306d1@MSN>	Email: Unique Message ID Native: (empty)

Case 1:24-cv-01858-ACR Document 26-1 Filed 02/04/25 Page 799 of 933 Data Delivery Standards

HEADER	Return-Path: <example_from@dc.edu> X-SpamCatcher-Score:1[X] Received:from[136.167.40.119] (HELO dc.edu) by fe3.dc.edu (CommuniGate Pro SMTP4.1.8) with ESMTP-TLS id 61258719 for example_to@mail.dc.edu; Mon, 23 Aug 2004 11:40:10 - 0400 Message-ID: <<4129F3CA.2020509@dc.edu> Date: Mon, 23 Aug 2005 11:40:36 -400 From: Taylor Evans <example_from@dc.edu> User-Agent:Mozilla/5.0 (Windows;U; Windows NT 5.1: en-US;rv:1.0.1) Gecko/20020823 Netscape/7.0 X-Accept-Language:en-us,en MIME-Version:1.0 To: Jon Smith <example_to@mail.dc.edu> Subject:Business Development Meeting Content-Type: text/plain;charset=us-ascii; format=flowed Content-Transfer-Encoding:7bit</example_to@mail.dc.edu></example_from@dc.edu></example_from@dc.edu>	
SHA256	AD6128C5CA40164AF71A1E FC800E12D2F195CE07BB5F8 C813B0888A2DDE6A06F	SHA-256 hash value of the document.
OCRPATH	TEXT/001/EDC0000001.txt	Path to extracted text of the native file

Sample Image Cross-Reference File:

IMG000001,,E:\001\IMG0000001.TIF,Y,,,
IMG0000002,,E:\001\IMG0000002.TIF,,,,
IMG0000003,,E:\001\IMG0000003.TIF,,,,
IMG0000004,,E:\001\IMG0000005.TIF,Y,,,
IMG0000005,,E:\001\IMG0000005.TIF,Y,,,
IMG0000006,,E:\001\IMG0000006.TIF,,,,,

ADDENDUM B

For Electronic Phone Records, include the following fields in separate columns:

For Calls:

- 1) Account Number
- 2) Connection Date Date the call was received or made
- 3) Connection Time Time call was received or made
- 4) Seizure Time Time it took for the call to be placed in seconds
- 5) Originating Number Phone that placed the call
- 6) Terminating Number Phone that received the call
- 7) Elapsed Time The length of time the call lasted, preferably in seconds
- 8) End Time The time the call ended
- 9) Number Dialed Actual number dialed
- 10) IMEI Originating Unique id to phone used to make call
- 11) IMEI Terminating-Unique id to phone used to receive call
- 12) IMSI Originating Unique id to phone used to make call
- 13) IMSI Terminating- Unique id to phone used to receive call
- 14) Call Codes Identify call direction or other routing information
- 15) Time Zone Time Zone in which the call was received or placed, if applicable

For Text messages:

- 1) Account Number
- 2) Connection Date Date the text was received or made
- 3) Connection Time Time text was received or made
- 4) Originating Number Who placed the text
- 5) Terminating Number Who received the text
- 6) IMEI Originating Unique id to phone used to make text
- 7) IMEI Terminating—Unique id to phone used to receive text
- 8) IMSI Originating Unique id to phone used to make text
- 9) IMSI Terminating- Unique id to phone used to receive text
- 10) Text Code Identify text direction, or other text routing information
- 11) Text Type Code Type of text message (sent SMS, MMS, or other)
- 12) Time Zone Time Zone in which the call was received or placed, if applicable

For Mobile Data Usage:

- 1) Account Number
- 2) Connection Date Date the data was received or made
- 3) Connection Time Time data was received or made
- 4) Originating number Number that used data
- 5) IMEI Originating Unique id of phone that used data
- 6) IMSI Originating Unique id of phone that used data
- 7) Data or Data codes Identify data direction, or other data routing information
- 8) Time Zone Time Zone in which the call was received or placed, if applicable

SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549

Supplemental Information for Persons Requested to Supply Information Voluntarily or Directed to Supply Information Pursuant to a Commission Subpoena

A. False Statements and Documents

Section 1001 of Title 18 of the United States Code provides that fines and terms of imprisonment may be imposed upon:

[W]hoever, in any matter within the jurisdiction of the executive, legislative, or judicial branch of the Government of the United States, knowingly and willfully--

- (1) falsifies, conceals, or covers up by any trick, scheme, or device a material fact;
- (2) makes any materially false, fictitious, or fraudulent statement or representation; or
- (3) makes or uses any false writing or document knowing the same to contain any materially false, fictitious, or fraudulent statement or entry.

Section 1519 of Title 18 of the United States Code provides that fines and terms of imprisonment may be imposed upon:

Whoever knowingly alters, destroys, mutilates, conceals, covers up, falsifies, or makes a false entry in any record, document, or tangible object with the intent to impede, obstruct, or influence the investigation or proper administration of any matter within the jurisdiction of any department or agency of the United States . . ., or in relation to or contemplation of any such matter.

B. Testimony

If your testimony is taken, you should be aware of the following:

- 1. Record. Your testimony will be transcribed by a reporter. If you desire to go off the record, please indicate this to the Commission employee taking your testimony, who will determine whether to grant your request. The reporter will not go off the record at your, or your counsel's, direction.
- 2. Counsel. You have the right to be accompanied, represented and advised by counsel of your choice. Your counsel may advise you before, during and after your testimony; question you briefly at the conclusion of your testimony to clarify any of the answers you give during testimony; and make summary notes during your testimony solely for your use. If you are accompanied by counsel, you may consult privately.

If you are not accompanied by counsel, please advise the Commission employee taking your testimony if, during the testimony, you desire to be accompanied, represented and advised by counsel. Your testimony will be adjourned once to afford you the opportunity to arrange to be so accompanied, represented or advised.

You may be represented by counsel who also represents other persons involved in the Commission's investigation. This multiple representation, however, presents a potential conflict of interest if one client's interests are or may be adverse to another's. If you are represented by counsel who also represents other persons involved in the investigation, the Commission will assume that you and counsel have discussed and resolved all issues concerning possible conflicts of interest. The choice of counsel, and the responsibility for that choice, is yours.

3. Transcript Availability. Rule 6 of the Commission's Rules Relating to Investigations, 17 CFR 203.6, states:

A person who has submitted documentary evidence or testimony in a formal investigative proceeding shall be entitled, upon written request, to procure a copy of his documentary evidence or a transcript of his testimony on payment of the appropriate fees: *Provided, however*, That in a nonpublic formal investigative proceeding the Commission may for good cause deny such request. In any event, any witness, upon proper identification, shall have the right to inspect the official transcript of the witness' own testimony.

If you wish to purchase a copy of the transcript of your testimony, the reporter will provide you with a copy of the appropriate form. Persons requested to supply information voluntarily will be allowed the rights provided by this rule.

4. *Perjury.* Section 1621 of Title 18 of the United States Code provides that fines and terms of imprisonment may be imposed upon:

Whoever-

(1) having taken an oath before a competent tribunal, officer, or person, in any case in which a law of the United States authorizes an oath to be administered, that he will testify, declare,

depose, or certify truly, or that any written testimony, declaration, deposition, or certificate by him subscribed, is true, willfully and contrary to such oath states or subscribes any material matter which he does not believe to be true; or

- (2) in any declaration, certificate, verification, or statement under penalty of perjury as permitted under section 1746 of title 28, United States Code, willfully subscribes as true any material matter which he does not believe to be true.
- 5. Fifth Amendment and Voluntary Testimony. Information you give may be used against you in any federal, state, local or foreign administrative, civil or criminal proceeding brought by the Commission or any other agency.

You may refuse, in accordance with the rights guaranteed to you by the Fifth Amendment to the Constitution of the United States, to give any information that may tend to incriminate you.

If your testimony is not pursuant to subpoena, your appearance to testify is voluntary, you need not answer any question, and you may leave whenever you wish. Your cooperation is, however, appreciated.

6. Formal Order Availability. If the Commission has issued a formal order of investigation, it will be shown to you during your testimony, at your request. If you desire a copy of the formal order, please make your request in writing.

C. Submissions and Settlements

Rule 5(c) of the Commission's Rules on Informal and Other Procedures, 17 CFR 202,5(c), states:

Persons who become involved in . . . investigations may, on their own initiative, submit a written statement to the Commission setting forth their interests and position in regard to the subject matter of the investigation. Upon request, the staff, in its discretion, may advise such persons of the general nature of the investigation, including the indicated violations as they pertain to them, and the amount of time that may be available for preparing and submitting a statement prior to the presentation of a staff recommendation to the Commission for the commencement of an administrative or injunction proceeding. Submissions by interested persons should be forwarded to the appropriate Division Director or Regional Director with a copy to the staff members conducting the investigation and should be clearly referenced to the specific investigation to which they relate. In the event a recommendation for the commencement of an enforcement proceeding is presented by the staff, any submissions by interested persons will be forwarded to the Commission in conjunction with the staff memorandum.

The staff of the Commission routinely seeks to introduce submissions made pursuant to Rule 5(c) as evidence in Commission enforcement proceedings, when the staff deems appropriate.

Rule 5(f) of the Commission's Rules on Informal and Other Procedures, 17 CFR 202.5(f), states:

In the course of the Commission's investigations, civil lawsuits, and administrative proceedings, the staff, with appropriate authorization, may discuss with persons involved the disposition of such matters by consent, by settlement, or in some other manner. It is the policy of the Commission, however, that the disposition of any such matter may not, expressly or impliedly, extend to any criminal charges that have been, or may be, brought against any such person or any recommendation with respect thereto. Accordingly, any person involved in an enforcement matter before the Commission who consents, or agrees to consent, to any judgment or order does so solely for the purpose of resolving the claims against him in that investigative, civil, or administrative matter and not for the purpose of resolving any criminal charges that have been, or might be, brought against him. This policy reflects the fact that neither the Commission nor its staff has the authority or responsibility for instituting, conducting, settling, or otherwise disposing of criminal proceedings. That authority and responsibility are vested in the Attorney General and representatives of the Department of Justice.

D. Freedom of Information Act

The Freedom of Information Act, 5 U.S.C. 552 (the "FOIA"), generally provides for disclosure of information to the public. Rule 83 of the Commission's Rules on Information and Requests, 17 CFR 200.83, provides a procedure by which a person can make a written request that information submitted to the Commission not be disclosed under the FOIA. That rule states that no determination as to the validity of such a request will be made until a request for disclosure of the information under the FOIA is received. Accordingly, no response to a request that information not be disclosed under the FOIA is necessary or will be given until a request for disclosure under the FOIA is received. If you desire an acknowledgment of receipt of your written request that information not be disclosed under the FOIA, please provide a duplicate request, together with a stamped, self-addressed envelope.

E. Authority for Solicitation of Information

Persons Directed to Supply Information Pursuant to Subpoena. The authority for requiring production of information is set forth in the subpoena. Disclosure of the information to the Commission is mandatory, subject to the valid assertion of any legal right or privilege you might have.

Persons Requested to Supply Information Voluntarily. One or more of the following provisions authorizes the Commission to solicit the information requested: Sections 19 and/or 20 of the Securities Act of 1933; Section 21 of the Securities Exchange Act of 1934; Section 321 of the Trust Indenture Act of 1939; Section 42 of the Investment Company Act of 1940; Section 209 of the Investment Advisers Act of 1940; and 17 CFR 202.5. Disclosure of the requested information to the Commission is voluntary on your part.

F. Effect of Not Supplying Information

Persons Directed to Supply Information Pursuant to Subpoena. If you fail to comply with the subpoena, the Commission may seek a court order requiring you to do so. If such an order is obtained and you thereafter fail to supply the information, you may be subject to civil and/or criminal sanctions for contempt of court. In addition, Section 21(c) of the Securities Exchange Act of 1934, Section 42(c) of the Investment Company Act of 1940, and Section 209(c) of the Investment Advisers Act of 1940 provide that fines and terms of imprisonment may be imposed upon any person who shall, without just cause, fail or refuse to attend and testify or to answer any lawful inquiry, or to produce books, papers, correspondence, memoranda, and other records in compliance with the subpoena.

Persons Requested to Supply Information Voluntarily. There are no direct sanctions and thus no direct effects for failing to provide all or any part of the requested information.

G. Principal Uses of Information

The Commission's principal purpose in soliciting the information is to gather facts in order to determine whether any person has violated, is violating, or is about to violate any provision of the federal securities laws or rules for which the Commission has enforcement authority, such as rules of securities exchanges and the rules of the Municipal Securities Rulemaking Board. Facts developed may, however, constitute violations of other laws or rules. Information provided may be used in Commission and other agency enforcement proceedings. Unless the Commission or its staff explicitly agrees to the contrary in writing, you should not assume that the Commission or its staff acquiesces in, accedes to, or concurs or agrees with, any position, condition, request, reservation of right, understanding, or any other statement that purports, or may be deemed, to be or to reflect a limitation upon the Commission's receipt, use, disposition, transfer, or retention, in accordance with applicable law, of information provided.

H. Routine Uses of Information

The Commission often makes its files available to other governmental agencies, particularly United States Attorneys and state prosecutors. There is a likelihood that information supplied by you will be made available to such agencies where appropriate. Whether or not the Commission makes its files available to other governmental agencies is, in general, a confidential matter between the Commission and such other governmental agencies.

Set forth below is a list of the routine uses which may be made of the information furnished.

- 1. To appropriate agencies, entities, and persons when (1) the SEC suspects or has confirmed that there has been a breach of the system of records, (2) the SEC has determined that as a result of the suspected or confirmed breach there is a risk of harm to individuals, the SEC (including its information systems, programs, and operations), the Federal Government, or national security; and (3) the disclosure made to such agencies, entities, and persons is reasonably necessary to assist in connection with the SEC's efforts to respond to the suspected or confirmed breach or to prevent, minimize, or remedy such harm.
- 2. To other Federal, state, local, or foreign law enforcement agencies; securities self-regulatory organizations; and foreign financial regulatory authorities to assist in or coordinate regulatory or law enforcement activities with the SEC.
- 3. To national securities exchanges and national securities associations that are registered with the SEC, the Municipal Securities Rulemaking Board; the Securities Investor Protection Corporation; the Public Company Accounting Oversight Board; the Federal banking authorities, including, but not limited to, the Board of Governors of the Federal Reserve System, the Comptroller of the Currency, and the Federal Deposit Insurance Corporation; state securities regulatory agencies or organizations; or regulatory authorities of a foreign government in connection with their regulatory or enforcement responsibilities.
- 4. By SEC personnel for purposes of investigating possible violations of, or to conduct investigations authorized by, the Federal securities laws.
- 5. In any proceeding where the Federal securities laws are in issue or in which the Commission, or past or present members of its staff, is a party or otherwise involved in an official capacity.
- 6. In connection with proceedings by the Commission pursuant to Rule 102(e) of its Rules of Practice, 17 CFR 201.102(e).

- 7. To a bar association, state accountancy board, or other Federal, state, local, or foreign licensing or oversight authority; or professional association or self-regulatory authority to the extent that it performs similar functions (including the Public Company Accounting Oversight Board) for investigations or possible disciplinary action.
- 8. To a Federal, state, local, tribal, foreign, or international agency, if necessary to obtain information relevant to the SEC's decision concerning the hiring or retention of an employee; the issuance of a security clearance; the letting of a contract; or the issuance of a license, grant, or other benefit.
- 9. To a Federal, state, local, tribal, foreign, or international agency in response to its request for information concerning the hiring or retention of an employee; the issuance of a security clearance; the reporting of an investigation of an employee; the letting of a contract; or the issuance of a license, grant, or other benefit by the requesting agency, to the extent that the information is relevant and necessary to the requesting agency's decision on the matter.
- 10. To produce summary descriptive statistics and analytical studies, as a data source for management information, in support of the function for which the records are collected and maintained or for related personnel management functions or manpower studies; may also be used to respond to general requests for statistical information (without personal identification of individuals) under the Freedom of Information Act.
- 11. To any trustee, receiver, master, special counsel, or other individual or entity that is appointed by a court of competent jurisdiction, or as a result of an agreement between the parties in connection with litigation or administrative proceedings involving allegations of violations of the Federal securities laws (as defined in section 3(a)(47) of the Securities Exchange Act of 1934, 15 U.S.C. 78c(a)(47)) or pursuant to the Commission's Rules of Practice, 17 CFR 201.100 through 900 or the Commission's Rules of Fair Fund and Disgorgement Plans, 17 CFR 201.1100 through 1106, or otherwise, where such trustee, receiver, master, special counsel, or other individual or entity is specifically designated to perform particular functions with respect to, or as a result of, the pending action or proceeding or in connection with the administration and enforcement by the Commission of the Federal securities laws or the Commission's Rules of Practice or the Rules of Fair Fund and Disgorgement Plans.
- 12. To any persons during the course of any inquiry, examination, or investigation conducted by the SEC's staff, or in connection with civil litigation, if the staff has reason to believe that the person to whom the record is disclosed may have further information about the matters related therein, and those matters appeared to be relevant at the time to the subject matter of the inquiry.
- 13. To interns, grantees, experts, contractors, and others who have been engaged by the Commission to assist in the performance of a service related to this system of records and who need access to the records for the purpose of assisting the Commission in the efficient administration of its programs, including by performing clerical, stenographic, or data analysis functions, or by reproduction of records by electronic or other means. Recipients of these records shall be required to comply with the requirements of the Privacy Act of 1974, as amended, 5 U.S.C.
- 14. In reports published by the Commission pursuant to authority granted in the Federal securities laws (as such term is defined in section 3(a)(47) of the Securities Exchange Act of 1934, 15 U.S.C. 78c(a)(47)), which authority shall include, but not be limited to, section 21(a) of the Securities Exchange Act of 1934, 15 U.S.C. 78u(a)).
- 15. To members of advisory committees that are created by the Commission or by Congress to render advice and recommendations to the Commission or to Congress, to be used solely in connection with their official designated functions.
- 16. To any person who is or has agreed to be subject to the Commission's Rules of Conduct, 17 CFR 200.735-1 through 200.735-18, and who assists in the investigation by the Commission of possible violations of the Federal securities laws (as such term is defined in section 3(a)(47) of the Securities Exchange Act of 1934, 15 U.S.C. 78c(a)(47)), in the preparation or conduct of enforcement actions brought by the Commission for such violations, or otherwise in connection with the Commission's enforcement or regulatory functions under the Federal securities laws.
- 17. To a Congressional office from the record of an individual in response to an inquiry from the Congressional office made at the request of that individual.
- 18. To members of Congress, the press, and the public in response to inquiries relating to particular Registrants and their activities, and other matters under the Commission's jurisdiction.
- 19. To prepare and publish information relating to violations of the Federal securities laws as provided in 15 U.S.C. 78c(a)(47)), as amended.
- 20. To respond to subpoenas in any litigation or other proceeding.
- 21. To a trustee in bankruptcy.
- 22. To any governmental agency, governmental or private collection agent, consumer reporting agency or commercial reporting agency, governmental or private employer of a debtor, or any other person, for collection,

including collection by administrative offset, Federal salary offset, tax refund offset, or administrative wage garnishment, of amounts owed as a result of Commission civil or administrative proceedings.

23. To another Federal agency or Federal entity, when the SEC determines that information from this system of records is reasonably necessary to assist the recipient agency or entity in (1) responding to a suspected or confirmed breach or (2) preventing, minimizing, or remedying the risk of harm to individuals, the recipient agency or entity (including its information systems, programs, and operations), the Federal Government, or national security, resulting from a suspected or confirmed breach.

Page 805 of 933

* * * * *

Small Business Owners: The SEC always welcomes comments on how it can better assist small businesses. If you would like more information, or have questions or comments about federal securities regulations as they affect small businesses, please contact the Office of Small Business Policy, in the SEC's Division of Corporation Finance, at 202-551-3460. If you would prefer to comment to someone outside of the SEC, you can contact the Small Business Regulatory Enforcement Ombudsman at http://www.sba.gov/ombudsman or toll free at 888-REG-FAIR. The Ombudsman's office receives comments from small businesses and annually evaluates federal agency enforcement activities for their responsiveness to the special needs of small business.

To:	hello@harmony.one[hello@harmony.one] (b)(6); (b)(7)(case 1:24-6); (-0.185)(-0.	Danie 000 of 000
Cc:	(b)(6); (b)(7)(ca)Se 1:24-6\(\frac{1}{2}\)-0\(\frac{1}\)-0\(\frac{1}\)-0\(\frac{1}{2}\)-0\(\frac{1}{2}\)-0\(Page 806 of 933EC.GOV]
From:	(b)(6); (b)(7)(C)	
Sent:	2024-02-26T20:27:01Z	
Subject:	SMAIL C-8950 - Document Subpoena	
Received:	2024-02-26T20:27:05Z	
2024.02.2	6 C-8950 SEC Subpoena to Simple Rules Copdf	
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Dlancace	ee attached a subpoena from the U.S. Securities and Exchange Commission.	
ricase se	se attached a subpoena from the 0.5. Securities and Exchange Commission.	
Thank yo	ou,	

 OFFICE
 (b)(6); (b)(7)(C)

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 | sec.gov

(b)(6); (b)(7)(C)

Division of Enforcement 100 Pearl Street, Suite 20-100 New York, NY 10004

U.S. Securities and Exchange Commission



UNITED STATES SECURITIES AND EXCHANGE COMMISSION

100 PEARL STREET, SUITE 20-100 NEW YORK, NY 10004-2616

DIVISION OF ENFORCEMENT

February 26, 2024

VIA UPS and email hello@harmony.one
Simple Rules Co.
c/o Jacy Jiaming Li
(b)(6); (b)(7)(C)

Re: <u>C-08950</u>

To Whom It May Concern:

The enclosed subpoena has been issued pursuant to a formal order entered by the United States Securities and Exchange Commission. Pursuant to Rule 8 of the United States Securities and Exchange Commission's Rules Relating to Investigations, 17 C.F.R. § 203.8, I have enclosed a subpoena for documents issued to Simple Rules Co. in connection with the above-referenced investigation.

This is a federal civil law enforcement investigation and you must produce all documents described in the attached subpoena. The enclosed subpoena requires Simple Rules Co. to produce documents to the SEC by March 11, 2024 to:

ENF-CPU U.S. Securities and Exchange Commission 14420 Albemarle Point Place, Suite 102 Chantilly, VA 20151-1750

For smaller electronic productions under 10MB in size, the materials may be emailed to the following email address: ENF-CPU@sec.gov.

Please also provide a duplicate copy of any document production cover letters to me at $at^{(b)(6); (b)(7)(C)}$ $at^{(b)$

Please carefully read the subpoena attachment, which contains, among other things, important instructions related to the manner of producing documents. In particular, if Simple Rules Co. prefers to send us copies of original documents, the staff requests that you scan and

produce hard copy documents, as well as electronic documents, in an electronic format consistent with the SEC Data Delivery Standards attached hereto. All electronic documents responsive to the subpoena, including all metadata, should also be produced in their native software format. If you have any questions concerning the production of documents in an electronic format, please contact me as soon as possible and in any event before producing documents. For security reasons, we strongly encourage the encryption of sensitive documents before production.

When producing the records, please consecutively number and mark each document produced with a symbol that identifies it as being produced by Simple Rules Co. and provide an index which briefly identifies the documents produced.

In your cover letter(s) accompanying the production of responsive documents, please enclose a list briefly describing each item you send. The list should identify the paragraph(s) in the subpoena attachment to which each item responds. Please also state in the cover letter(s) whether you believe Simple Rules Co. has met the obligations of the subpoena by searching carefully and thoroughly for everything called for by the subpoena and sending it all to us.

A copy of the subpoena should be included with the documents that are produced. Correspondence should reference case number and requesting SEC staff member.

Passwords for documents, files, compressed archives, and encrypted media should be provided separately either via email addressed to ENF-CPU@sec.gov, or in a separate cover letter mailed separately from the data. Password correspondence should reference case number and requesting SEC staff member.

In addition, for any documents that qualify as records of regularly conducted activities under Federal Rule of Evidence 902(11), please have the appropriate representative(s) of Simple Rules Co. complete a business records certification (a sample of which is enclosed) and return it with the document production. Execution of this certification may allow the Commission to introduce the documents provided by Simple Rules Co. in any subsequent judicial proceeding, without requiring the testimony of a records custodian.

Enclosed is a copy of the Commission's Form 1662, entitled "Supplemental Information for Persons Requested to Supply Information Voluntarily or Directed to Supply Information Pursuant to a Commission Subpoena." This form explains how we may use the information which Simple Rules Co. provides to the Commission and has other important information. Please provide a copy of this form to Simple Rules Co.

This investigation is a non-public, fact-finding inquiry. We are trying to determine whether there have been any violations of the federal securities laws. The investigation does not mean that we have concluded that anyone has violated the law. Also, the investigation does not mean that we have a negative opinion of any person, entity, or security.

If you have any questions or would like to discuss this matter, you may contact me at (b)(6); (b)(7)(C) | sec.gov.

Sincerely,	
(b)(6); (b)(7)(C)	1
Division of Enforcement	_
(b)(6); (b)(7)(C)	

Enclosures: Subpoena and Attachment

Business Records Certification SEC Data Delivery Standards SEC Form 1662



SUBPOENA

UNITED STATES OF AMERICA SECURITIES AND EXCHANGE COMMISSION

C-08950

То:	Simple Rules Co. (b)(6); (b)(7)(C)
\boxtimes	YOU MUST PRODUCE everything specified in the Attachment to this subpoena to officers of the Securities and Exchange Commission, at the place, date and time specified below:
	ENF-CPU, U.S. Securities and Exchange Commission, 14420 Albemarle Point Place, Suite 102 Chantilly, VA 20151-1750, no later than March 11, 2024.
	YOU MUST TESTIFY before officers of the Securities and Exchange Commission, at the place, date and time specified below:
J.	FEDERAL LAW REQUIRES YOU TO COMPLY WITH THIS SUBPOENA. If you do not comply with this subpoena, the SEC may bring an action in Federal Court to enforce this subpoena. Failure to comply with a court order enforcing this subpoena may result in the court imposing a fine, imprisonment, or both.
Ву:	U.S. Securities and Exchange Commission Date: February 26, 2024
	New York Regional Office 100 Pearl Street, Suite 20-100 New York, NY 10004-2616

I am an officer of the U.S. Securities and Exchange Commission authorized to issue subpoenas in this matter. The Securities and Exchange Commission has issued a formal order authorizing this investigation under Section 20(a) of the Securities Act of 1933.

NOTICE TO WITNESS: If you claim a witness fee or mileage, submit this subpoena with the claim voucher.

SUBPOENA ATTACHMENT FOR SIMPLE RULES CO.

C-08950

February 26, 2024

Definitions

As used in this subpoena, the words and phrases listed below shall have the following meanings:

- 1. "Relevant Period" means July 1, 2018 to the present.
- 2. "Harmony" means the entity doing business under the name Harmony ONE or Simple Rules Co. including parents, subsidiaries, affiliates, predecessors, successors, officers, directors, employees, agents, general partners, limited partners, partnerships and aliases, code names, or trade or business names used by any of the foregoing.
- 3. The "Ethereum Foundation" means the entity or business doing business under the name Ethereum Foundation, including, but not limited to, ethereum.org, the Ethereum Support Program, and parents, subsidiaries, affiliates, predecessors, successors, officers, directors, employees, agents, general partners, limited partners, partnerships and aliases, owners, code names, or trade or business names used by any of the foregoing.
- 4. "The Merge" or "Ethereum 2.0" means the transition by the Ethereum blockchain of its consensus mechanism from proof-of-work to proof-of-stake.
- 5. "Beacon Chain" means the original proof-of-stake blockchain that was launched in 2020 that ran alongside the original proof-of-work Ethereum blockchain.
- 6. "Document" shall include, but is not limited to, any written, printed, or typed matter including, but not limited to all drafts and copies bearing notations or marks not found in the original, letters and correspondence, interoffice communications, slips, tickets, records, worksheets, financial records, accounting documents, bookkeeping documents, memoranda, reports, manuals, telephone logs, facsimiles, messages of any type, telephone messages, text messages, voice mails, tape recordings, notices, instructions, minutes, summaries, notes of meetings, file folder markings, and any other organizational indicia, purchase orders, information recorded by photographic process, including microfilm and microfiche, computer printouts, spreadsheets, and other electronically stored information, including writings, drawings, graphs, charts, photographs, sound recordings, images, and other data or data compilations that are stored in any medium from which information can be retrieved, obtained, manipulated, or translated.
- 7. "Communication" means any correspondence, contact, discussion, e-mail, instant message, or any other kind of oral or written exchange or transmission of information (in the form of facts, ideas, inquiries, or otherwise), including but not limited to those made on Social Media Services, and any response thereto between two or more Persons or entities, including, without limitation, all telephone conversations, face-to-face meetings

or conversations, internal or external discussions, or exchanges of a Document or Documents.

- 8. "Concerning" means directly or indirectly, in whole or in part, describing, constituting, evidencing, recording, evaluating, substantiating, concerning, referring to, alluding to, in connection with, commenting on, relating to, regarding, discussing, showing, analyzing or reflecting.
- 9. "Agreement" means any actual or contemplated (i) written or oral Agreement; (ii) term or provision of such Agreement; or (iii) amendment of any nature or termination of such Agreement. A request for any Agreement among or between specified parties includes a request for all Documents Concerning (i) any actual or contemplated Agreement among or between such parties, whether or not such Agreement included any other Person; (ii) the drafting or negotiation of any such Agreement; (iii) any actual or contemplated demand, request or application for any such Agreement, and any response thereto; and (iv) any actual or contemplated objection or refusal to enter into any such Agreement, and any response thereto.
- 10. "Bank or Financial Account" means the domestic or foreign bank, brokerage, or financial accounts held, controlled, or used by you or by other people on your behalf. This includes, but is not limited to, accounts that contain currency, securities, or crypto assets.
- 11. "Person" means a natural person, firm, association, organization, partnership, business, trust, corporation, bank or any other private or public entity.
- 12. The term "you" and "your" means the Person to whom or entity to which this subpoena was issued.
- 13. To the extent necessary to bring within the scope of this this subpoena any information or Documents that might otherwise be construed to be outside its scope:
 - a. the word "or" means "and/or";
 - b. the word "and" means "and/or";
 - c. the functional words "each," "every" "any" and "all" shall each be deemed to include each of the other functional words;
 - d. the masculine gender includes the female gender and the female gender includes the masculine gender; and
 - e. the singular includes the plural and the plural includes the singular.

Instructions

1. Unless otherwise specified, this subpoena calls for production of the original Documents and all copies and drafts of same. Documents responsive to this subpoena may be in electronic or paper form. Electronic Documents such as email should be produced in accordance with the attached Document entitled SEC Data Delivery Standards. All responsive electronic Documents, including all metadata, should also be produced in their

native software format.

- 2. For Documents in paper format, you may send the originals, or, if you prefer, you may send copies of the originals. The Commission cannot reimburse you for the copying costs. If you are sending copies, the staff requests that you scan (rather than photocopy) hard copy Documents and produce them in an electronic format consistent with the SEC Data Delivery Standards. Alternatively, you may send us photocopies of the Documents in paper format. If you choose to send copies, you <u>must</u> secure and retain the originals and store them in a safe place. The staff may later request or require that you produce the originals.
- 3. Whether you scan or photocopy Documents, the copies must be identical to the originals, including even faint marks or print. Also, please note that if copies of a Document differ in any way, they are considered separate Documents and you must send each one. For example, if you have two copies of the same letter, but only one of them has handwritten notes on it, you must send both the clean copy and the one with notes.
- 4. In producing a photocopy of an original Document that contains post-it(s), notation flag(s), or other removable markings or attachments which may conceal all or a portion of the markings contained in the original Document, photocopies of the original Document both with and without the relevant post-it(s), notation flag(s), or removable markings or attachments should be produced.
- 5. Documents should be produced as they are kept in the ordinary course of business or be organized and labeled to correspond with the categories in this request. In that regard, Documents should be produced in a unitized manner, i.e., delineated with staples or paper clips to identify the Document boundaries.
- 6. Documents should be labeled with sequential numbering (bates-stamped).
- 7. The scope of any given request should not be limited or narrowed on the basis that it calls for Documents that are responsive to another request.
- 8. This subpoena covers all Documents in or subject to your possession, custody or control, including all Documents that are not in your immediate possession but that you have the effective ability to obtain, that are responsive, in whole or in part, to any of the individual requests set forth below. If, for any reason—including a claim of attorney-client privilege you do not produce something called for by the request, you should submit a list of what you are not producing. The list should describe each item separately, noting:
 - a. its author(s);
 - b. its date;
 - c. its subject matter;
 - d. the name of the Person who has the item now, or the last Person known to have it;
 - e. the names of everyone who ever had the item or a copy of it, and the names of everyone who was told the item's contents;
 - f. the basis upon which you are not producing the responsive Document;

- g. the specific request in the subpoena to which the Document relates;
- h. the attorney(s) and the client(s) involved; and
- i. in the case of the work product doctrine, the litigation for which the Document was prepared in anticipation.
- 9. If Documents responsive to this subpoena no longer exist because they have been lost, discarded, or otherwise destroyed, you should identify such Documents and give the date on which they were lost, discarded, or destroyed.

Documents to be Immediately Preserved and Produced

- 1. All Agreements between Harmony and the Ethereum Foundation;
- 2. All Documents and Communications Concerning any grant or other source of funding received from the Ethereum Foundation;
- 3. All Documents and Communications Concerning any work conducted by Harmony pursuant to any grant or other source of funding received from the Ethereum Foundation;
- 4. Documents sufficient to identify Harmony's crypto asset wallet addresses or Bank or Financial Accounts, located within or outside the U.S., that received any grant or other source of funding from the Ethereum Foundation, as well as the amount of crypto assets or fiat received;
- 5. Documents sufficient to identify all meetings with the Ethereum Foundation, including any Documents related to the meetings identified;
- 6. All Communications with the Ethereum Foundation, including, but not limited to, Communications with board members, consultants, officers, directors, employees, developers, coders, and others performing work on behalf of these entities, related to The Merge or the Beacon Chain.

DECLARATION OF [Insert Name] CERTIFYING RECORDS OF REGULARLY CONDUCTED BUSINESS ACTIVITY

I, the undersigned, [insert name], pursuant to 28 U.S.C. § 1746, declare that:

- 1. I am employed by Simple Rules Co. as [insert position] and by reason of my position am authorized and qualified to make this declaration. [if possible supply additional information as to how person is qualified to make declaration, e.g., I am custodian of records, I am familiar with the company's recordkeeping practices or systems, etc.]
- 2. I further certify that the documents [attached hereto or submitted herewith] and stamped [insert bates range] are true copies of records that were:
 - (a) made at or near the time of the occurrence of the matters set forth therein, by, or from information transmitted by, a person with knowledge of those matters;
 - (b) kept in the course of regularly conducted business activity; and
 - (c) made by the regularly conducted business activity as a regular practice.

I declare under penalty of perjury that the foregoing is true and correct. Executed on [date].

[Name]	



U.S. Securities and Exchange Commission

Data Delivery Standards

This document describes the technical requirements for paper and electronic document productions to the U.S. Securities and Exchange Commission (SEC). **Any questions or proposed file formats other than those described below must be discussed with the legal and technical staff of the SEC Division of Enforcement prior to submission. **

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General Instructions

Congred Instructions

The current mailing address for all physical productions sent to the SEC is:

ENF-CPU (U.S. Securities & Exchange Commission), 14420 Albemarle Point Place, Suite 102, Chantilly, VA 20151-1750

Electronic files must be produced in their native format, i.e. the format in which they are ordinarily used and maintained during the normal course of business. For example, an MS Excel file must be produced as an MS Excel file rather than an image of a spreadsheet. (Note: An Adobe PDF file is not considered a native file unless the document was initially created as a PDF.)

In the event produced files require the use of proprietary software not commonly found in the workplace, the SEC will explore other format options with the producing party.

The proposed use of file de-duplication methodologies or computer-assisted review or technology-assisted review (TAR) during the processing of documents must be discussed with and approved by the legal and technical staff of the Division of Enforcement (ENF). If your production will be de-duplicated it is vital that you 1) preserve any unique metadata associated with the duplicate files, for example, custodian name and file location and, 2) make that unique metadata part of your production to the SEC.

General requirements for ALL document productions are:

- 1. A cover letter must be included with each production and should include the following information:
 - Case number, case name and requesting SEC staff member name
 - b. A list of each piece of media included in the production with its unique production volume number
 - c. A list of custodians, identifying the Bates range for each custodian
 - d. A list of redacted documents and the redaction reason
 - c. The time zone in which the emails were standardized during conversion
 - f. Whether the production contains native files produced from Mac operating system environments
- Data can be produced on CD, DVD, thumb drive, etc., using the media requiring the least number of deliverables and labeled with the following:
 - a. Case number
 - b. Production date
 - c. Producing party
 - d. Bates range (if applicable)
- All submissions must be organized by custodian unless otherwise instructed.
- All document family groups, i.e. email attachments, embedded files, etc., should be produced together and children files should follow parent files sequentially in the Bates numbering.
- All load-ready collections should include only one data load file and one image pointer file.
- All load-ready text must be produced as separate document-level text files.
- All load-ready collections should account for custodians in the custodian field.
- 8. All load-ready collections must provide the extracted contents of any container files to ensure all relevant files are produced as separate records.
- Audio files should be separated from data files if both are included in the production.
- 10. Only alphanumeric characters and the underscore character are permitted in file names and folder names. Special characters are not permitted.
- 11. All electronic productions submitted on media must be produced using industry standard self-extracting encryption software.
- 12. The SEC uses 7zip to access compressed files. Note that the SEC cannot accept files that use AES-256 Jpeg or pkAES-256-Cert Deflate compression methods, even if the files are created with 7zip. If you have any questions or need additional information, please reach out to the requesting SEC staff member.
- 13. Electronic productions of 30 GB or less are strongly encouraged to be submitted via Secure File Transfer. All Secure File Transfers should be sent to the SEC Centralized Production Unit (ENF-CPU@sec.gov) with a CC to the requesting SEC staff member. If you do not have your own Secure File Transfer application, you may reach out to the requesting SEC staff member for a link to the SEC system in order to upload your production. If using the SEC Secure File Transfer system, you will NOT be able to CC individuals outside the SEC on your upload transmission. Note that the SEC cannot accept productions made using file sharing sites such as Google Drive or Microsoft Office 365.
- 14. Productions containing BSA or SAR material must be encrypted. Secure File Transfer applications may be used to produce BSA or SAR material. BSA or SAR material should be segregated and appropriately marked as BSA or SAR, or should be produced separately from other case related records.
- 15. Passwords for electronic documents, files, compressed archives and encrypted media must be provided separately either via email or in a cover letter apart from the media.
- 16. All electronic productions should be produced free of computer viruses.
- 17. Before producing forensically collected images, parties should reach out to the requesting SEC staff member in order to discuss appropriate handling.
- 18. Before producing unique data sets (large sets of relational data, website reconstruction, chat room data, etc.), parties should reach out to the requesting SEC staff member in order to discuss an appropriate production format.
- Additional technical descriptions can be found in the addendum to this document.

Please note that productions sent to the SEC via United States Postal Service are subject to Mail Irradiation, and as a result electronic productions may be damaged.

Delivery Formats

Imaged Productions

The SEC prefers that all scanned paper and electronic file collections be produced in a structured format including industry standard load files, Bates numbered image files, native files and searchable document-level text files. Bates numbers should not contain spaces. Hyphens (-) and underscores (-) are acceptable.

1. Images

- Black and white images must be 300 DPI Group IV single-page TIFF files
- b. Color images must be produced in JPEG format
- File names cannot contain embedded spaces or special characters (including the comma)
- d. Folder names cannot contain embedded spaces or special characters (including the comma)
- e. All image files must have a unique file name, i.e. Bates number
- f. Images must be endorsed with sequential Bates numbers in the lower right corner of each image
- The number of image files per folder should not exceed 2,000 files g.
- h. Excel spreadsheets should have a placeholder image named by the Bates number of the file
- AUTOCAD/photograph files should be produced as a single page JPEG file

2. Image Cross-Reference File

The image cross-reference file (LOG or .OPT) links the images to the database records. It should be a comma-delimited file consisting of seven fields per line with a line in the cross-reference file for every image in the database with the following format:

ImageID, VolumeLabel, ImageFilePath, DocumentBreak, FolderBreak, BoxBreak, PageCount

3. Data File

The data file (.DAT) contains all of the fielded information that will be loaded into the database.

- The first line of the .DAT file must be a header row identifying the field names
- The .DAT file must use the following *Concordance*® default delimiters:

Comma ¶ ASCII character (020)

Quote b ASCII character (254)

- c. If the .DAT file is produced in Unicode format it must contain the byte order marker
- d. Date fields should be provided in the format: mm/dd/yyyy
- Date and time fields must be two separate fields
- The time zone must be included in all time fields f.
- If the production includes imaged emails and attachments, the attachment fields must be included to preserve the parent/child relationship between an email and its attachments
- An OCRPATH field must be included to provide the file path and name of the extracted text file on the produced storage media. The text file must be named after the FIRSTBATES. Do not include the text in the .DAT file.
- For productions with native files, a LINK field must be included to provide the file path and name of the native file on the produced storage media. The native file must be named after the FIRSTBATES.
- BEGATTACH and ENDATTACH fields must be two separate fields
- A complete list of metadata fields is available in Addendum A to this document

4. Text

Text must be produced as separate document-level text files, not as fields within the .DAT file. The text files must be named per the FIRSTBATES/Image Key and the full path to the text file (OCRPATII) should be included in the .DAT file. Text files may be in either ANSI or Unicode format, however, ALL text files must be in the same format within the same production. Note that productions containing text with foreign characters must produce text files in Unicode format to preserve the foreign characters. Text files must be in a separate folder, and the number of text files per folder should not exceed 2,000 files. There should be no special characters (including commas) in the folder names. For redacted documents, provide the full text for the redacted version.

Linked Native Files

Copies of original email and native file documents/attachments must be included for all electronic productions.

- a. Native file documents must be named per the FIRSTBATES number
- b. The full path of the native file must be provided in the .DAT file for the LINK field
- The number of native files per folder should not exceed 2,000 files

II. Native File Production without Load Files

With prior approval, native files may be produced without load files. Native file productions should not be Bates numbered. Native files must be produced as they are maintained in the normal course of business and organized by custodian-named file folders. Native email files (.PST or .MBOX) must be separated by custodian.

III. Adobe PDF File Production

With prior approval, Adobe PDF files may be produced in native file format.

- 1. All PDFs must be unitized at the document level, i.e. each PDF must represent a discrete document.
- 2. PDF files should be produced in separate folders named by the custodian. The folders should not contain any special characters (including commas).
- 3. All PDF files must contain embedded text that includes all discernible words within the document, not selected text or image only. This requires all layers of the PDF to be flattened first.
- 4. If PDF files are Bates endorsed, the PDF files must be named by the Bates range.

IV. Audio Files

Audio files from telephone recording systems must be produced in a format that is playable using Microsoft Windows Media PlayerTM. Additionally, the call information (metadata) related to each audio recording MUST be provided. The metadata file must be produced in a delimited text format. Field names must be included in the first row of the text file. The metadata must include, at a minimum, the following fields:

1) Caller Name: Caller's name or account/identification number

2) Originating Number: Caller's phone number3) Called Party Name: Called party's name

4) Terminating Number: Called party's phone number

5) Date: Date of call
6) Time: Time of call

7) Filename: Filename of audio file

V. Video Files

Video files must be produced in a format that is playable using Microsoft Windows Media PlayerTM.

VI. Electronic Trade and Bank Records

When producing electronic trade records, bank records, or financial statements, provide the files in one of the following formats:

- 1. MS Excel spreadsheet with header information detailing the field structure. If any special codes exist in the dataset, a separate document must be provided that details all such codes. If details of the field structure do not fit in the header, a separate document must be provided that includes such details.
- 2. Delimited text file with header information detailing the field structure. The preferred delimiter is a vertical bar "|". If any special codes exist in the dataset, a separate document must be provided that details all such codes. If details of the field structure do not fit in the header, a separate document must be provided that includes such details.

VII. Electronic Phone Records

When producing an MS Excel spreadsheet for electronic phone records, provide the files in the following format:

- 1. MS Excel spreadsheet with header information detailing the field structure. If any special codes exist in the dataset, a separate document must be provided that details all such codes. If details of the field structure do not fit in the header, a separate document must be provided that includes such details. Data must be formatted in its native format (i.e. dates in a date format, numbers in an appropriate numerical format, and numbers with leading zeroes as text).
 - a. The metadata that must be included is outlined in **Addendum B** of this document. Each field of data must be loaded into a separate column. For example, Date and Start_Time must be produced in separate columns and not combined into a single column containing both pieces of information. Any fields of data that are provided in addition to those listed in **Addendum B** must also be loaded into separate columns.

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Data Delivery Standards

VIII. Audit Workpapers

The SEC prefers for workpapers to be produced in two formats: (1) With Bates numbers in accordance with the SEC Data Delivery Standards; and (2) in native format via laptop computer, web-based viewing platform, or otherwise, allowing for viewing in the same format and organization as the firm's audit team. Prior to production of workpapers via laptop computer or web-based viewing platform, audit firms should contact the requesting SEC staff member for additional information and written agreements addressing use of software, access, and viewing protocols.

IX. Mobile Device Data

Before producing any mobile device data (including but not limited to text messages and application data) parties should reach out to the requesting SEC staff member in order to discuss the appropriate production format. Productions containing chat data from applications must be identified at the time of production and the following information must be provided to the requesting SEC staff member and the SEC Centralized Production Unit: chat application, chat data format, and how the length of a chat is determined (i.e. set duration of time, number of minutes without messages, etc.)

ADDENDUM A

The metadata of electronic document collections should be extracted and provided in a .DAT file using the field definition and formatting described below:

Field Name Sample Data Description FIRSTBATES EDC0000001 First Bates number of native file documents. LASTBATES EDC0000001 Last Bates number of native file documents.	
	ent/email
	ent/email
**The LASTBATES field should be po	opulated
for single page documents/emails.	
ATTACHRANGE EDC0000001 - EDC0000015 Bates number of the first page of	f the parent
document to the Bates number of the la	ast page of the
last attachment "child" document	
BEGATTACH EDC0000001 First Bates number of attachment range	
ENDATTACH EDC0000015 Last Bates number of attachment range	
PARENT_BATES EDC0000001 First Bates number of parent document/	
**This PARENT_BATES field should	
in each record representing an attack	hment "child"
document	
CHILD_BATES EDC0000002; EDC0000014 First Bates number of "child" attachmo	
more than one Bates number listed dep	pending on the
number of attachments	, , , , ,
**The CHILD_BATES field should be	
cach record representing a "parent" de	
CUSTODIAN Smith, John Email: Mailbox where the email reside	
Native: Name of the individual or de	pariment from
whose files the document originated	
FROM John Smith Email: Sender	
Native: Author(s) of document	
**semi-colon should be used to separat	te multiple
TO Coffman, Janice: LeeW Recipient(s)	
	4
[mailto:LeeW@MSN.com] **semi-colon should be used to separate entries	te multiple
CC Frank Thompson [mailto: Carbon copy recipient(s)	
frank_Thompson@cdt.com] **semi-colon should be used to separate	to multiple
entries	ic munipic
BCC John Cain Blind carbon copy recipient(s)	
**semi-colon should be used to separat	te multiple
entries	te manapie
SUBJECT Board Meeting Minutes Email: Subject line of the email	
Native: Title of document (if available)	
FILE_NAME BoardMeetingMinutes.docx Native: Name of the original native	file, including
extension	
DATE_SENT 10/12/2010 Email: Date the email was sent	
Native: (empty)	
TIME SENT/TIME 07:05 PM GMT Email: Time the email was sent/ Time	zone in which
ZONE the emails were standardized during co	
Native: (empty)	
**This data must be a separate field and	d cannot be
combined with the DATE_SENT field	
TIME_ZONE GMT The time zone in which the emails wer	re standardized
during conversion.	
Email: Time zone	
Native: (empty)	

LINK	D:\001\EDC0000001.msg	Hyperlink to the email or native file document **The linked file must be named per the FIRSTBATES number
MIME_TYPE	application/msword	The content type of an email or native file document as identified/extracted from the header
FILE_EXTEN	MSG	The file type extension representing the email or native file document; will vary depending on the format
AUTHOR	John Smith	Email: (empty) Native: Author of the document
LAST_AUTHOR	Jane Doe	Email: (empty) Native: Last Author of the document
DATE_CREATED	10/10/2010	Email: (empty) Native: Date the document was created
TIME_CREATED/T IME_ZONE	10:25 AM GMT	Email: (empty) Native: Time the document was created including time zone **This data must be a separate field and cannot be combined with the DATE_CREATED field
DATE_MOD	10/12/2010	Email: (empty) Native: Date the document was last modified
TIME_MOD/TIME_ ZONE	07:00 PM GMT	Email: (empty) Native: Time the document was last modified including the time zone **This data must be a separate field and cannot be combined with the DATE_MOD field
DATE_ACCESSD	10/12/2010	Email: (empty) Native: Date the document was last accessed
TIME_ACCESSD/T IME_ZONE	07:00 PM GMT	Email: (empty) Native: Time the document was last accessed including the time zone **This data must be a separate field and cannot be combined with the DATE_ACCESSD field
PRINTED_DATE	10/12/2010	Email: (empty) Native: Date the document was last printed
FILE_SIZE	5,952	Size of native file document/email in KB
PGCOUNT	1	Number of pages in native file document/email
PATH	J:\Shared\SmithJ\October Agenda.doc	Email: (empty) Native: Path where native file document was stored including original file name.
INTFILEPATH	Personal Folders\Deleted Items\Board Meeting Minutes.msg	Email: original location of email including original file name. Native: (empty)
INTMSGID	<000805c2c71bS75977050Scb 8306d1@MSN>	Email: Unique Message ID Native: (empty)

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HEADER SHA254	Return-Path: <example_from@dc.edu> X-SpamCatcher-Score:1[X] Received:from[136.167.40.119] (HELO dc.edu) by fe3.dc.edu (CommuniGate Pro SMTP4.1.8) with ESMTP-TLS id 61258719 for example_to@mail.dc.edu; Mon, 23 Aug 2004 11:40:10 - 0400 Message-ID: <4129F3CA.2020509@dc.edu> Date: Mon, 23 Aug 2005 11:40:36 -400 From: Taylor Evans <example_from@dc.edu> User-Agent:Mozilla/5.0 (Windows;U; Windows NT 5.1: en-US;rv:1.0.1) Gecko/20020823 Netscape/7.0 X-Accept-Language:en-us,en MIME-Version:1.0 To: Jon Smith <example_to@mail.dc.edu> Subject:Business Development Meeting Content-Type: text/plain;charset=us-ascii; format=flowed Content-Transfer-Encoding:7bit</example_to@mail.dc.edu></example_from@dc.edu></example_from@dc.edu>	Email: The email header information Native: (empty) SHA-256 hash value of the document.
SHA256	AD6128C5CA40164AF71A1E FC800E12D2F195CE07BB5F8 C813B0888A2DDE6A06F	SHA-230 hash value of the document.
OCRPATH	TEXT/001/EDC0000001.txt	Path to extracted text of the native file

Sample Image Cross-Reference File:

IMG000001,,E:\001\IMG0000001.TIF,Y,,,
IMG0000002,,E:\001\IMG0000002.TIF,,,,
IMG0000003,,E:\001\IMG0000003.TIF,,,,
IMG0000004,,E:\001\IMG0000005.TIF,Y,,,
IMG0000005,,E:\001\IMG0000005.TIF,Y,,,
IMG0000006,,E:\001\IMG0000006.TIF,,,,,

ADDENDUM B

For Electronic Phone Records, include the following fields in separate columns:

For Calls:

- 1) Account Number
- 2) Connection Date Date the call was received or made
- 3) Connection Time Time call was received or made
- 4) Seizure Time Time it took for the call to be placed in seconds
- 5) Originating Number Phone that placed the call
- 6) Terminating Number Phone that received the call
- 7) Elapsed Time The length of time the call lasted, preferably in seconds
- 8) End Time The time the call ended
- 9) Number Dialed Actual number dialed
- 10) IMEI Originating Unique id to phone used to make call
- 11) IMEI Terminating-Unique id to phone used to receive call
- 12) IMSI Originating Unique id to phone used to make call
- 13) IMSI Terminating- Unique id to phone used to receive call
- 14) Call Codes Identify call direction or other routing information
- 15) Time Zone Time Zone in which the call was received or placed, if applicable

For Text messages:

- 1) Account Number
- 2) Connection Date Date the text was received or made
- 3) Connection Time Time text was received or made
- 4) Originating Number Who placed the text
- 5) Terminating Number Who received the text
- 6) IMEI Originating Unique id to phone used to make text
- 7) IMEI Terminating—Unique id to phone used to receive text
- 8) IMSI Originating Unique id to phone used to make text
- 9) IMSI Terminating- Unique id to phone used to receive text
- 10) Text Code Identify text direction, or other text routing information
- 11) Text Type Code Type of text message (sent SMS, MMS, or other)
- 12) Time Zone Time Zone in which the call was received or placed, if applicable

For Mobile Data Usage:

- 1) Account Number
- Connection Date Date the data was received or made
- 3) Connection Time Time data was received or made
- 4) Originating number Number that used data
- 5) IMEI Originating Unique id of phone that used data
- 6) IMSI Originating Unique id of phone that used data
- 7) Data or Data codes Identify data direction, or other data routing information
- 8) Time Zone Time Zone in which the call was received or placed, if applicable

SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549

Supplemental Information for Persons Requested to Supply Information Voluntarily or Directed to Supply Information Pursuant to a Commission Subpoena

A. False Statements and Documents

Section 1001 of Title 18 of the United States Code provides that fines and terms of imprisonment may be imposed upon:

[W]hoever, in any matter within the jurisdiction of the executive, legislative, or judicial branch of the Government of the United States, knowingly and willfully--

- (1) falsifies, conceals, or covers up by any trick, scheme, or device a material fact;
- (2) makes any materially false, fictitious, or fraudulent statement or representation; or
- (3) makes or uses any false writing or document knowing the same to contain any materially false, fictitious, or fraudulent statement or entry.

Section 1519 of Title 18 of the United States Code provides that fines and terms of imprisonment may be imposed upon:

Whoever knowingly alters, destroys, mutilates, conceals, covers up, falsifies, or makes a false entry in any record, document, or tangible object with the intent to impede, obstruct, or influence the investigation or proper administration of any matter within the jurisdiction of any department or agency of the United States . . ., or in relation to or contemplation of any such matter.

B. Testimony

If your testimony is taken, you should be aware of the following:

- 1. Record. Your testimony will be transcribed by a reporter. If you desire to go off the record, please indicate this to the Commission employee taking your testimony, who will determine whether to grant your request. The reporter will not go off the record at your, or your counsel's, direction.
- 2. Counsel. You have the right to be accompanied, represented and advised by counsel of your choice. Your counsel may advise you before, during and after your testimony; question you briefly at the conclusion of your testimony to clarify any of the answers you give during testimony; and make summary notes during your testimony solely for your use. If you are accompanied by counsel, you may consult privately.

If you are not accompanied by counsel, please advise the Commission employee taking your testimony if, during the testimony, you desire to be accompanied, represented and advised by counsel. Your testimony will be adjourned once to afford you the opportunity to arrange to be so accompanied, represented or advised.

You may be represented by counsel who also represents other persons involved in the Commission's investigation. This multiple representation, however, presents a potential conflict of interest if one client's interests are or may be adverse to another's. If you are represented by counsel who also represents other persons involved in the investigation, the Commission will assume that you and counsel have discussed and resolved all issues concerning possible conflicts of interest. The choice of counsel, and the responsibility for that choice, is yours.

3. Transcript Availability. Rule 6 of the Commission's Rules Relating to Investigations, 17 CFR 203.6, states:

A person who has submitted documentary evidence or testimony in a formal investigative proceeding shall be entitled, upon written request, to procure a copy of his documentary evidence or a transcript of his testimony on payment of the appropriate fees: *Provided, however*, That in a nonpublic formal investigative proceeding the Commission may for good cause deny such request. In any event, any witness, upon proper identification, shall have the right to inspect the official transcript of the witness' own testimony.

If you wish to purchase a copy of the transcript of your testimony, the reporter will provide you with a copy of the appropriate form. Persons requested to supply information voluntarily will be allowed the rights provided by this rule.

4. *Perjury.* Section 1621 of Title 18 of the United States Code provides that fines and terms of imprisonment may be imposed upon:

Whoever-

(1) having taken an oath before a competent tribunal, officer, or person, in any case in which a law of the United States authorizes an oath to be administered, that he will testify, declare,

depose, or certify truly, or that any written testimony, declaration, deposition, or certificate by him subscribed, is true, willfully and contrary to such oath states or subscribes any material matter which he does not believe to be true; or

- (2) in any declaration, certificate, verification, or statement under penalty of perjury as permitted under section 1746 of title 28, United States Code, willfully subscribes as true any material matter which he does not believe to be true.
- 5. Fifth Amendment and Voluntary Testimony. Information you give may be used against you in any federal, state, local or foreign administrative, civil or criminal proceeding brought by the Commission or any other agency.

You may refuse, in accordance with the rights guaranteed to you by the Fifth Amendment to the Constitution of the United States, to give any information that may tend to incriminate you.

If your testimony is not pursuant to subpoena, your appearance to testify is voluntary, you need not answer any question, and you may leave whenever you wish. Your cooperation is, however, appreciated.

6. Formal Order Availability. If the Commission has issued a formal order of investigation, it will be shown to you during your testimony, at your request. If you desire a copy of the formal order, please make your request in writing.

C. Submissions and Settlements

Rule 5(c) of the Commission's Rules on Informal and Other Procedures, 17 CFR 202.5(c), states:

Persons who become involved in . . . investigations may, on their own initiative, submit a written statement to the Commission setting forth their interests and position in regard to the subject matter of the investigation. Upon request, the staff, in its discretion, may advise such persons of the general nature of the investigation, including the indicated violations as they pertain to them, and the amount of time that may be available for preparing and submitting a statement prior to the presentation of a staff recommendation to the Commission for the commencement of an administrative or injunction proceeding. Submissions by interested persons should be forwarded to the appropriate Division Director or Regional Director with a copy to the staff members conducting the investigation and should be clearly referenced to the specific investigation to which they relate. In the event a recommendation for the commencement of an enforcement proceeding is presented by the staff, any submissions by interested persons will be forwarded to the Commission in conjunction with the staff memorandum.

The staff of the Commission routinely seeks to introduce submissions made pursuant to Rule 5(c) as evidence in Commission enforcement proceedings, when the staff deems appropriate.

Rule 5(f) of the Commission's Rules on Informal and Other Procedures, 17 CFR 202.5(f), states:

In the course of the Commission's investigations, civil lawsuits, and administrative proceedings, the staff, with appropriate authorization, may discuss with persons involved the disposition of such matters by consent, by settlement, or in some other manner. It is the policy of the Commission, however, that the disposition of any such matter may not, expressly or impliedly, extend to any criminal charges that have been, or may be, brought against any such person or any recommendation with respect thereto. Accordingly, any person involved in an enforcement matter before the Commission who consents, or agrees to consent, to any judgment or order does so solely for the purpose of resolving the claims against him in that investigative, civil, or administrative matter and not for the purpose of resolving any criminal charges that have been, or might be, brought against him. This policy reflects the fact that neither the Commission nor its staff has the authority or responsibility for instituting, conducting, settling, or otherwise disposing of criminal proceedings. That authority and responsibility are vested in the Attorney General and representatives of the Department of Justice.

D. Freedom of Information Act

The Freedom of Information Act, 5 U.S.C. 552 (the "FOIA"), generally provides for disclosure of information to the public. Rule 83 of the Commission's Rules on Information and Requests, 17 CFR 200.83, provides a procedure by which a person can make a written request that information submitted to the Commission not be disclosed under the FOIA. That rule states that no determination as to the validity of such a request will be made until a request for disclosure of the information under the FOIA is received. Accordingly, no response to a request that information not be disclosed under the FOIA is necessary or will be given until a request for disclosure under the FOIA is received. If you desire an acknowledgment of receipt of your written request that information not be disclosed under the FOIA, please provide a duplicate request, together with a stamped, self-addressed envelope.

E. Authority for Solicitation of Information

Persons Directed to Supply Information Pursuant to Subpoena. The authority for requiring production of information is set forth in the subpoena. Disclosure of the information to the Commission is mandatory, subject to the valid assertion of any legal right or privilege you might have.

Persons Requested to Supply Information Voluntarily. One or more of the following provisions authorizes the Commission to solicit the information requested: Sections 19 and/or 20 of the Securities Act of 1933; Section 21 of the Securities Exchange Act of 1934; Section 321 of the Trust Indenture Act of 1939; Section 42 of the Investment Company Act of 1940; Section 209 of the Investment Advisers Act of 1940; and 17 CFR 202.5. Disclosure of the requested information to the Commission is voluntary on your part.

F. Effect of Not Supplying Information

Persons Directed to Supply Information Pursuant to Subpoena. If you fail to comply with the subpoena, the Commission may seek a court order requiring you to do so. If such an order is obtained and you thereafter fail to supply the information, you may be subject to civil and/or criminal sanctions for contempt of court. In addition, Section 21(c) of the Securities Exchange Act of 1934, Section 42(c) of the Investment Company Act of 1940, and Section 209(c) of the Investment Advisers Act of 1940 provide that fines and terms of imprisonment may be imposed upon any person who shall, without just cause, fail or refuse to attend and testify or to answer any lawful inquiry, or to produce books, papers, correspondence, memoranda, and other records in compliance with the subpoena.

Persons Requested to Supply Information Voluntarily. There are no direct sanctions and thus no direct effects for failing to provide all or any part of the requested information.

G. Principal Uses of Information

The Commission's principal purpose in soliciting the information is to gather facts in order to determine whether any person has violated, is violating, or is about to violate any provision of the federal securities laws or rules for which the Commission has enforcement authority, such as rules of securities exchanges and the rules of the Municipal Securities Rulemaking Board. Facts developed may, however, constitute violations of other laws or rules. Information provided may be used in Commission and other agency enforcement proceedings. Unless the Commission or its staff explicitly agrees to the contrary in writing, you should not assume that the Commission or its staff acquiesces in, accedes to, or concurs or agrees with, any position, condition, request, reservation of right, understanding, or any other statement that purports, or may be deemed, to be or to reflect a limitation upon the Commission's receipt, use, disposition, transfer, or retention, in accordance with applicable law, of information provided.

H. Routine Uses of Information

The Commission often makes its files available to other governmental agencies, particularly United States Attorneys and state prosecutors. There is a likelihood that information supplied by you will be made available to such agencies where appropriate. Whether or not the Commission makes its files available to other governmental agencies is, in general, a confidential matter between the Commission and such other governmental agencies.

Set forth below is a list of the routine uses which may be made of the information furnished.

- 1. To appropriate agencies, entities, and persons when (1) the SEC suspects or has confirmed that there has been a breach of the system of records, (2) the SEC has determined that as a result of the suspected or confirmed breach there is a risk of harm to individuals, the SEC (including its information systems, programs, and operations), the Federal Government, or national security; and (3) the disclosure made to such agencies, entities, and persons is reasonably necessary to assist in connection with the SEC's efforts to respond to the suspected or confirmed breach or to prevent, minimize, or remedy such harm.
- 2. To other Federal, state, local, or foreign law enforcement agencies; securities self-regulatory organizations; and foreign financial regulatory authorities to assist in or coordinate regulatory or law enforcement activities with the SEC.
- 3. To national securities exchanges and national securities associations that are registered with the SEC, the Municipal Securities Rulemaking Board; the Securities Investor Protection Corporation; the Public Company Accounting Oversight Board; the Federal banking authorities, including, but not limited to, the Board of Governors of the Federal Reserve System, the Comptroller of the Currency, and the Federal Deposit Insurance Corporation; state securities regulatory agencies or organizations; or regulatory authorities of a foreign government in connection with their regulatory or enforcement responsibilities.
- 4. By SEC personnel for purposes of investigating possible violations of, or to conduct investigations authorized by, the Federal securities laws.
- 5. In any proceeding where the Federal securities laws are in issue or in which the Commission, or past or present members of its staff, is a party or otherwise involved in an official capacity.
- 6. In connection with proceedings by the Commission pursuant to Rule 102(e) of its Rules of Practice, 17 CFR 201.102(e).

- 7. To a bar association, state accountancy board, or other Federal, state, local, or foreign licensing or oversight authority; or professional association or self-regulatory authority to the extent that it performs similar functions (including the Public Company Accounting Oversight Board) for investigations or possible disciplinary action.
- 8. To a Federal, state, local, tribal, foreign, or international agency, if necessary to obtain information relevant to the SEC's decision concerning the hiring or retention of an employee; the issuance of a security clearance; the letting of a contract; or the issuance of a license, grant, or other benefit.
- 9. To a Federal, state, local, tribal, foreign, or international agency in response to its request for information concerning the hiring or retention of an employee; the issuance of a security clearance; the reporting of an investigation of an employee; the letting of a contract; or the issuance of a license, grant, or other benefit by the requesting agency, to the extent that the information is relevant and necessary to the requesting agency's decision on the matter.
- 10. To produce summary descriptive statistics and analytical studies, as a data source for management information, in support of the function for which the records are collected and maintained or for related personnel management functions or manpower studies; may also be used to respond to general requests for statistical information (without personal identification of individuals) under the Freedom of Information Act.
- 11. To any trustee, receiver, master, special counsel, or other individual or entity that is appointed by a court of competent jurisdiction, or as a result of an agreement between the parties in connection with litigation or administrative proceedings involving allegations of violations of the Federal securities laws (as defined in section 3(a)(47) of the Securities Exchange Act of 1934, 15 U.S.C. 78c(a)(47)) or pursuant to the Commission's Rules of Practice, 17 CFR 201.100 through 900 or the Commission's Rules of Fair Fund and Disgorgement Plans, 17 CFR 201.1100 through 1106, or otherwise, where such trustee, receiver, master, special counsel, or other individual or entity is specifically designated to perform particular functions with respect to, or as a result of, the pending action or proceeding or in connection with the administration and enforcement by the Commission of the Federal securities laws or the Commission's Rules of Practice or the Rules of Fair Fund and Disgorgement Plans.
- 12. To any persons during the course of any inquiry, examination, or investigation conducted by the SEC's staff, or in connection with civil litigation, if the staff has reason to believe that the person to whom the record is disclosed may have further information about the matters related therein, and those matters appeared to be relevant at the time to the subject matter of the inquiry.
- 13. To interns, grantees, experts, contractors, and others who have been engaged by the Commission to assist in the performance of a service related to this system of records and who need access to the records for the purpose of assisting the Commission in the efficient administration of its programs, including by performing clerical, stenographic, or data analysis functions, or by reproduction of records by electronic or other means. Recipients of these records shall be required to comply with the requirements of the Privacy Act of 1974, as amended, 5 U.S.C.
- 14. In reports published by the Commission pursuant to authority granted in the Federal securities laws (as such term is defined in section 3(a)(47) of the Securities Exchange Act of 1934, 15 U.S.C. 78c(a)(47)), which authority shall include, but not be limited to, section 21(a) of the Securities Exchange Act of 1934, 15 U.S.C. 78u(a)).
- 15. To members of advisory committees that are created by the Commission or by Congress to render advice and recommendations to the Commission or to Congress, to be used solely in connection with their official designated functions.
- 16. To any person who is or has agreed to be subject to the Commission's Rules of Conduct, 17 CFR 200.735-1 through 200.735-18, and who assists in the investigation by the Commission of possible violations of the Federal securities laws (as such term is defined in section 3(a)(47) of the Securities Exchange Act of 1934, 15 U.S.C. 78c(a)(47)), in the preparation or conduct of enforcement actions brought by the Commission for such violations, or otherwise in connection with the Commission's enforcement or regulatory functions under the Federal securities laws.
- 17. To a Congressional office from the record of an individual in response to an inquiry from the Congressional office made at the request of that individual.
- 18. To members of Congress, the press, and the public in response to inquiries relating to particular Registrants and their activities, and other matters under the Commission's jurisdiction.
- 19. To prepare and publish information relating to violations of the Federal securities laws as provided in 15 U.S.C. 78c(a)(47)), as amended.
- 20. To respond to subpoenas in any litigation or other proceeding.
- 21. To a trustee in bankruptcy.
- 22. To any governmental agency, governmental or private collection agent, consumer reporting agency or commercial reporting agency, governmental or private employer of a debtor, or any other person, for collection,

Page 829 of 933

including collection by administrative offset, Federal salary offset, tax refund offset, or administrative wage garnishment, of amounts owed as a result of Commission civil or administrative proceedings.

23. To another Federal agency or Federal entity, when the SEC determines that information from this system of records is reasonably necessary to assist the recipient agency or entity in (1) responding to a suspected or confirmed breach or (2) preventing, minimizing, or remedying the risk of harm to individuals, the recipient agency or entity (including its information systems, programs, and operations), the Federal Government, or national security, resulting from a suspected or confirmed breach.

* * * * *

Small Business Owners: The SEC always welcomes comments on how it can better assist small businesses. If you would like more information, or have questions or comments about federal securities regulations as they affect small businesses, please contact the Office of Small Business Policy, in the SEC's Division of Corporation Finance, at 202-551-3460. If you would prefer to comment to someone outside of the SEC, you can contact the Small Business Regulatory Enforcement Ombudsman at http://www.sba.gov/ombudsman or toll free at 888-REG-FAIR. The Ombudsman's office receives comments from small businesses and annually evaluates federal agency enforcement activities for their responsiveness to the special needs of small business.

To: Cc: From: Sent:	(b)(6); (b)(7)(C) Pethereum oral (b)(6); (b)(0); (b)(0
Subject:	Subpoena from U.S. Securities and Exchange Commission
Received:	<u>+</u>
	94 C-8950 SEC Subpoena to ^{(b)(6); (b)(7)(C)} pdf
Good aft	ternoon.
	be attached a subpoena from the U.S. Securities and Exchange Commission. If you have any questions, you can contact me of $(b)(6)$; $(b)(7)(C)$ or $(b)(6)$; $(b)(7)(C)$
Thank yo (b)(6); (b)(7)(C	ou,
(b)(6); (b)(7)((C)
Division of E	Enforcement
	treet, Suite 20-100
New York, N	NY 10004
OFFICE (b))(6); (b)(7)(C)
(b)(6);	sec.gov

U.S. Securities and Exchange Commission



UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Chicago Regional Office 175 West Jackson, Suite 1450 Chicago, IL 60604

DIVISION OF ENFORCEMENT

(b)(6); (b)(7)(C)	
(b)(6); (b)(7)(C)	gov.

December 4, 2023

VIA UPS and EMAI	L (b)(6); (b)(7)(C)	@ethereum.org
(b)(6); (b)(7)(C)]	

Re: Ethereum 2.0 (C-08950)

Dear	(b)(6); (b)(7)(C)
------	-------------------

The staff of the Chicago Regional Office of the United States Securities and Exchange Commission is conducting an investigation in the matter identified above. The enclosed subpoena has been issued to you as part of this investigation. The subpoena requires you to provide us documents and give sworn testimony. Please note that if you comply with the instructions for producing documents, you will not need to appear for testimony at the indicated time.

Please read the subpoena and this letter carefully. This letter answers some questions you may have about the subpoena. You should also read the enclosed SEC Form 1662. If you do not comply with this subpoena, the SEC may bring an action in Federal Court to enforce this subpoena. Failure to comply with a court order enforcing this subpoena may result in the court imposing a fine, imprisonment or both.

Producing Documents

What materials do I have to produce?

The subpoena requires you to provide us the documents described in the attachment to the subpoena. You must provide these documents by December 18, 2023. The attachment to the subpoena defines some terms (such as "document") before listing what you must provide.

You should produce each and every document in your possession, custody, or control, including any documents that are not in your immediate possession but that you have the ability

to obtain. All responsive documents shall be produced as they are kept in the usual course of business, and shall be organized and labeled to correspond with the numbered paragraphs in the subpoena attachment. In that regard, documents should be produced in a unitized manner, i.e., delineated with staples or paper clips to identify the document boundaries.

Documents responsive to this subpoena may be in electronic or paper form. Electronic documents such as email should be produced in accordance with the attached document entitled SEC Data Delivery Standards (the "Standards"). If you have any questions concerning the production of documents in an electronic format, please contact me as soon as possible but in any event before producing documents. All electronic documents responsive to the document subpoena, including all metadata, must also be secured and retained in their native software format and stored in a safe place. The staff may later request or require that you produce the native format.

For documents in paper format, you may send the originals, or, if you prefer, you may send copies of the originals. The Commission cannot reimburse you for the copying costs. If you are sending copies, the staff requests that you scan (rather than photocopy) hard copy documents and produce them in an electronic format consistent with the Standards. Alternatively, you may send us photocopies of the documents in paper format. If you choose to send copies, you must secure and retain the originals and store them in a safe place. The staff may later request or require that you produce the originals.

Whether you scan or photocopy documents, the copies must be identical to the originals, including even faint marks or print. Also, please note that if copies of a document differ in any way, they are considered separate documents and you must send each one. For example, if you have two copies of the same letter, but only one of them has handwritten notes on it, you must send both the clean copy and the one with notes.

If you do send us scanned or photocopied documents, please put an identifying notation on each page of each document to indicate that you produced it, and number the pages of all the documents submitted. (For example, if Jane Doe sends documents to the staff, she may number the pages JD-1, JD-2, JD-3, etc., in a blank corner of the documents.) Please make sure the notation and number do not conceal any writing or marking on the document. If you send us originals, please do not add any identifying notations.

In producing a photocopy of an original document that contains post-it(s), notation flag(s), or other removable markings or attachments which may conceal all or a portion of the markings contained in the original document, photocopies of the original document both with and without the relevant post-it(s), notation flag(s), or removable markings or attachments should be produced.

Do I need to send anything else?

You should enclose a list briefly describing each item you send. The list should state to which numbered paragraph(s) in the subpoena attachment each item responds. A copy of the subpoena should be included with the documents that are produced.

Passwords for documents, files, compressed archives, and encrypted media should be provided separately either via email addressed to ENF-CPU@sec.gov, or in a separate cover

Please include a cover letter stating whether you believe you have met your obligations under the subpoena by searching carefully and thoroughly for everything called for by the subpoena, and sending it all to us. Correspondence should reference case number, case name and requesting SEC staff member.

Please also provide a narrative description describing what you did to identify and collect documents responsive to the subpoena. At a minimum, the narrative should describe:

- who searched for documents;
- who reviewed documents found to determine whether they were responsive;
- what sources were searched (e.g., computer files, CDs, DVDs, thumb drives, flash drives, online storage media, hard copy files, diaries, datebooks, planners, filing cabinets, home office, work office, voice mails, home email, webmail, work email, backup tapes or other media);
- what third parties, if any, were contacted to obtain responsive documents (e.g., phone companies for phone records, brokerage firms for brokerage records); and
- where the original electronic and hardcopy documents are maintained and by whom.

For any documents that qualify as records of regularly conducted activities under Federal Rule of Evidence 902(11), please complete a business records certification (a sample of which is enclosed) and return it with the document production.

What if I do not send everything described in the attachment to the subpoena?

The subpoena requires you to send all the materials described in it. If, for any reason including a claim of attorney-client privilege—you do not produce something called for by the subpoena, you should submit a list of what you are not producing. The list should describe each item separately, noting:

- its author(s);
- its date;
- its subject matter;
- the name of the person who has the item now, or the last person known to have it;
- the names of everyone who ever had the item or a copy of it, and the names of everyone who was told the item's contents;
- the reason you did not produce the item; and
- the specific request in the subpoena to which the document relates.

If you withhold anything on the basis of a claim of attorney-client privilege or attorney work product protection, you should identify the attorney and client involved. If you withhold anything on the basis of the work product doctrine, you should also identify the litigation in anticipation of which the document was prepared.

If documents responsive to this subpoena no longer exist because they have been lost, discarded, or otherwise destroyed, you should identify such documents and give the date on which they were lost, discarded or destroyed.

Where should I send the materials?

Please send the materials to:

ENF-CPU (U.S. Securities & Exchange Commission) 14420 ALBEMARLE POINT PL Suite 102 CHANTILLY, VA 20151-1750

For smaller electronic productions under 10MB in size, the materials may be emailed to
the following email address: ENF-CPU@sec.gov with copies to $\frac{(b)(b)}{(b)(7)(c)}$ @sec.gov,
(b)(6): @scc.gov, and (b)(6): @sec.gov. If you would like to use the Commission's secure
electronic transfer site, Accellion/Kiteworks, please contact me and I will send you a link.

Testifying

Where and when do I testify?

The subpoena requires you to come to the Commission's offices at 100 Pearl Street, Suite 20-100, New York, NY 10004 at 9:30 a.m. on December 22, 2023 to testify under oath in the matter identified on the subpoena. But, as noted above, if you comply with all the directions for producing documents, we will not require you to testify at the indicated time. We may require your testimony later, however.

Other Important Information

May I have a lawyer help me respond to the subpoena?

Yes. You have the right to consult with and be represented by your own lawyer in this matter. Your lawyer may also advise and accompany you when you testify. We cannot give you legal advice.

What will the Commission do with the materials I send and/or the testimony I provide?

The enclosed SEC Form 1662 explains how we may use the information you provide to the Commission. This form also has other important information for you. Please read it carefully.

Has the Commission determined that anyone has done anything wrong?

This investigation is a non-public, fact-finding inquiry. We are trying to determine whether there have been any violations of the federal securities laws. The investigation and the subpoena do not mean that we have concluded that you or anyone else has violated the law. Also, the investigation does not mean that we have a negative opinion of any person, entity or security.

Important Policy Concerning Settlements

Please note that, in any matter in which enforcement action is ultimately deemed to be warranted, the Division of Enforcement will not recommend any settlement to the Commission unless the party wishing to settle certifies, under penalty of perjury, that all documents responsive to Commission subpoenas and formal and informal document requests in this matter have been produced.

I have read this letter, the subpoena, and the SEC Form 1662, but I still have questions. What should I do?

If you hav	ve any other questions, you may call me at (b)(6); (b)(7)(C)	or	(b)(6); (b)(7)(C)	at
(b)(6); (b)(7)(C)	If you are represented by a lawyer, you should nave your la	wy	er contact me.	J

Sincerely,

(b)(6); (b)(7)(C)
Division of Enforcement (b)(6); (b)(7)(C)
(b)(6); (b)(7)(C) <i>i</i>)sec.gov

Enclosures: Subpoena and Attachment

SEC Data Delivery Standards

SEC Form 1662

Business Records Certification

(h)(6): (h)(7)(C)



SUBPOENA

UNITED STATES OF AMERICA SECURITIES AND EXCHANGE COMMISSION

In the Matter of Ethereum 2.0 (C-08950)

To:	(0)(0); (0)(1)(0)				
\boxtimes		everything specified in the Attachment to this subpoena to officers of the mmission, at the place, date and time specified below:			
		es and Exchange Commission, 14420 Albemarle Point Pl, Suite 1-1750, no later than December 18, 2023, at 9:30 a.m.			
\boxtimes	YOU MUST TESTIFY before officers of the Securities and Exchange Commission, at the place, date and time specified below:				
	New York Regional Office, 100 Pearl Street, Suite 20-100, New York, NY 10004 on December 22, 2023, at 9:30 a.m.				
	you do not comply with this su poena. Failure to comply with a	QUIRES YOU TO COMPLY WITH THIS SUBPOENA. abpoena, the SEC may bring an action in Federal Court to enforce this a court order enforcing this subpoena may result in the court imposing a fine, imprisonment, or both.			
By:	(b)(6); (b)(7)(C)	Date: <u>December 4, 2023</u>			
	U.S. Securities and Exchange Commission				
	New York Regional Office				
	100 Pearl Street, Suite 20-1	00			
	New York, NY 10004				

I am an officer of the U.S. Securities and Exchange Commission authorized to issue subpoenas in this matter. The Securities and Exchange Commission has issued a formal order authorizing this investigation under: Section 20(a) of the Securities Act of 1933.

NOTICE TO WITNESS: If you claim a witness fee or mileage, submit this subpoena with the claim voucher

SUBPOENA ATTACHMENT FOR (b)(6); (b)(7)(C) December 4, 2023

In the Matter of Ethereum 2.0 (C-08950)

A. Definitions

As used in this document subpoena, the words and phrases listed below shall have the following meanings:

- 1. "Relevant Period" means July 1, 2018 to the present.
- 2. The "Foundation" means the entity or business doing business under the name Ethereum Foundation, including ethereum.org and parents, subsidiaries, affiliates, predecessors, successors, officers, directors, employees, agents, general partners, limited partners, partnerships and aliases, owners, code names, or trade or business names used by any of the foregoing.
- 3. "EIP" means Ethereum Improvement Proposal.
- 4. "The Merge" or "Ethereum 2.0" means the transition by the Ethereum blockchain of its consensus mechanism from proof-of-work to proof-of-stake.
- 5. "Beacon Chain" means the original proof-of-stake blockchain that was launched in 2020 that ran alongside the original proof-of-work Ethereum blockchain.
- 6. "ETH" means Ether or the native crypto asset for the Ethereum blockchain and network.
- "Document" includes, but is not limited to, any written, printed, or typed matter including, but not limited to all drafts and copies bearing notations or marks not found in the original, letters and correspondence, interoffice communications, slips, tickets, records, worksheets, financial records, accounting documents, bookkeeping documents, memoranda, reports, manuals, telephone logs, telegrams, facsimiles, messages of any type, telephone messages, voice mails, tape recordings, notices, instructions, minutes, summaries, notes of meetings, file folder markings, and any other organizational indicia, purchase orders, information recorded by photographic process, including microfilm and microfiche, computer printouts, spreadsheets, and other electronically stored information, including but not limited to writings, drawings, graphs, charts, photographs, sound recordings, images, and other data or data compilations that are stored in any medium from which information can be retrieved, obtained, manipulated, or translated.
- 8. "Communication" means any correspondence, contact, discussion, e-mail, instant message, or any other kind of oral or written exchange or transmission of information (in the form of facts, ideas, inquiries, or otherwise), including but not limited to those made on Social Media Services, and any response thereto between two or more Persons or entities, including, without limitation, all

- telephone conversations, face-to-face meetings or conversations, internal or external discussions, or exchanges of a Document or Documents.
- 9. "Concerning" means directly or indirectly, in whole or in part, describing, constituting, evidencing, recording, evaluating, substantiating, concerning, referring to, alluding to, in connection with, commenting on, relating to, regarding, discussing, showing, analyzing or reflecting.
- 10. "Agreement" means any actual or contemplated (i) written or oral Agreement; (ii) term or provision of such Agreement; or (iii) amendment of any nature or termination of such Agreement. A request for any Agreement among or between specified parties includes a request for all Documents Concerning (i) any actual or contemplated Agreement among or between such parties, whether or not such Agreement included any other Person; (ii) the drafting or negotiation of any such Agreement; (iii) any actual or contemplated demand, request or application for any such Agreement, and any response thereto; and (iv) any actual or contemplated objection or refusal to enter into any such Agreement, and any response thereto.
- 11. "Person" means a natural person, firm, association, organization, partnership, business, trust, corporation, bank or any other private or public entity.
- 12. The term "you" and "your" means the Person or entity to whom this subpoena was issued.
- 13. To the extent necessary to bring within the scope of this subpoena any information or Documents that might otherwise be construed to be outside its scope:
 - a. the word "or" means "and/or";
 - b. the word "and" means "and/or";
 - c. the functional words "each," "every" "any" and "all" shall each be deemed to include each of the other functional words;
 - d. the masculine gender includes the female gender and the female gender includes the masculine gender; and
 - e. the singular includes the plural and the plural includes the singular.

B. <u>Instructions</u>

- 1. Unless otherwise specified, the subpoena calls for production of the original Documents and all copies and drafts of same. Documents responsive to this subpoena may be in electronic or paper form. Electronic Documents such as email should be produced in accordance with the attached document entitled SEC Data Delivery Standards. All electronic Documents responsive to the subpoena, including all metadata, should also be produced in their native software format.
- 2. For Documents in paper format, you may send the originals, or, if you prefer, you may send copies of the originals. The Commission cannot reimburse you for the copying costs. If you are sending copies, the staff requests that you scan (rather

than photocopy) hard copy Documents and produce them in an electronic format consistent with the SEC Data Delivery Standards. Alternatively, you may send us photocopies of the Documents in paper format. If you choose to send copies, you must secure and retain the originals and store them in a safe place. The staff may later request or require that you produce the originals.

- 3. Whether you scan or photocopy Documents, the copies must be identical to the originals, including even faint marks or print. Also, please note that if copies of a Document differ in any way, they are considered separate Documents and you must send each one. For example, if you have two copies of the same letter, but only one of them has handwritten notes on it, you must send both the clean copy and the one with notes.
- 4. In producing a photocopy of an original Document that contains post-it(s), notation flag(s), or other removable markings or attachments which may conceal all or a portion of the markings contained in the original Document, photocopies of the original Document both with and without the relevant post-it(s), notation flag(s), or removable markings or attachments should be produced.
- 5. Documents should be produced as they are kept in the ordinary course of business or be organized and labeled to correspond with the categories in this subpoena. In that regard, Documents should be produced in a unitized manner, *i.e.*, delineated with staples or paper clips to identify the Document boundaries.
- 6. Documents should be labeled with sequential numbering (bates-stamped).
- 7. The scope of any given request should not be limited or narrowed based on the fact that it calls for Documents that are responsive to another request.
- 8. You are not required to produce exact duplicates of any Documents that have been previously produced to the Securities and Exchange Commission staff in connection with this matter. If you are not producing Documents based upon a prior production, please identify the responsive Documents that were previously produced.
- 9. For any Documents that qualify as records of regularly conducted activities under Federal Rule of Evidence 902(11), please complete a business records certification (a sample of which is enclosed) and return it with the Document production.
- 10. This subpoena covers all Documents in or subject to your possession, custody or control, including all Documents that are not in your immediate possession but that you have the effective ability to obtain, that are responsive, in whole or in part, to any of the individual requests set forth below. If, for any reason including a claim of attorney-client privilege—you do not produce something called for by the subpoena, you should submit a list of what you are not producing. The list should be produced as an Excel file and describe each item separately, noting:

- a. its author(s);
- b. its date;

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- c. its subject matter;
- d. the name of the Person who has the item now, or the last Person known to have it;
- e. the names of everyone who ever had the item or a copy of it, and the names of everyone who was told the item's contents;
- f. the basis upon which you are not producing the responsive Document;
- g. the specific request in the subpoena to which the Document relates;
- h. the attorney(s) and the client(s) involved; and
- i. in the case of the work product doctrine, the litigation for which the Document was prepared in anticipation.
- 11. If Documents responsive to this subpoena no longer exist because they have been lost, discarded, or otherwise destroyed, you should identify such Documents and give the date on which they were lost, discarded or destroyed.

D. Documents to be Immediately Preserved and Produced

- 1. Documents and Communications Concerning the launch of the Beacon Chain, the Merge, and the website https://launchpad.ethereum.org, or any content published on the Launchpad's website.
- 2. Any organizational charts listing related entities and/or officers, directors, employees, or agents of the Foundation.
- 3. The Foundation's board meeting minutes (including drafts), agendas, and materials provided to the board or committee members provided to you Concerning the launch of the Beacon Chain; the Merge; the website https://launchpad.ethereum.org, or any content published on the Launchpad's website; or the Foundation's financial statements or financial condition.
- 4. All Documents Concerning any legal analysis of ETH issued after the Merge provided to you. Please note that the above Instructions discuss the procedures for how to handle privileged documents.
- 5. Documents sufficient to identify all investors in the Foundation (the "Investors") by name and address.
- 6. All Documents provided to, and Communications with, the Investors in connection with any offering of an interest in the ownership of the Foundation.

DECLARATION OF [Insert Name] CERTIFYING RECORDS OF REGULARLY CONDUCTED BUSINESS ACTIVITY

I, the undersigned, [insert name], pursuant to 28 U.S.C. § 1746, declare that:

- 1. I am employed by the Ethereum Foundation as [insert position] and by reason of my position am authorized and qualified to make this declaration. [if possible supply additional information as to how person is qualified to make declaration, e.g., I am custodian of records, I am familiar with the company's recordkeeping practices or systems, etc.]
- 2. I further certify that the documents [attached hereto or submitted herewith] and stamped [insert bates range] are true copies of records that were:
 - (a) made at or near the time of the occurrence of the matters set forth therein, by, or from information transmitted by, a person with knowledge of those matters;
 - (b) kept in the course of regularly conducted business activity; and
 - (c) made by the regularly conducted business activity as a regular practice.

I declare under penalty of perjury that the foregoing is true and correct. Executed on [date].

[Name]	

SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549

Supplemental Information for Persons Requested to Supply Information Voluntarily or Directed to Supply Information Pursuant to a Commission Subpoena

A. False Statements and Documents

Section 1001 of Title 18 of the United States Code provides that fines and terms of imprisonment may be imposed upon:

[W]hoever, in any matter within the jurisdiction of the executive, legislative, or judicial branch of the Government of the United States, knowingly and willfully--

- (1) falsifies, conceals, or covers up by any trick, scheme, or device a material fact;
- (2) makes any materially false, fictitious, or fraudulent statement or representation; or
- (3) makes or uses any false writing or document knowing the same to contain any materially false, fictitious, or fraudulent statement or entry.

Section 1519 of Title 18 of the United States Code provides that fines and terms of imprisonment may be imposed upon:

Whoever knowingly alters, destroys, mutilates, conceals, covers up, falsifies, or makes a false entry in any record, document, or tangible object with the intent to impede, obstruct, or influence the investigation or proper administration of any matter within the jurisdiction of any department or agency of the United States . . ., or in relation to or contemplation of any such matter.

B. Testimony

If your testimony is taken, you should be aware of the following:

- 1. Record. Your testimony will be transcribed by a reporter. If you desire to go off the record, please indicate this to the Commission employee taking your testimony, who will determine whether to grant your request. The reporter will not go off the record at your, or your counsel's, direction.
- 2. Counsel. You have the right to be accompanied, represented and advised by counsel of your choice. Your counsel may advise you before, during and after your testimony; question you briefly at the conclusion of your testimony to clarify any of the answers you give during testimony; and make summary notes during your testimony solely for your use. If you are accompanied by counsel, you may consult privately.

If you are not accompanied by counsel, please advise the Commission employee taking your testimony if, during the testimony, you desire to be accompanied, represented and advised by counsel. Your testimony will be adjourned once to afford you the opportunity to arrange to be so accompanied, represented or advised.

You may be represented by counsel who also represents other persons involved in the Commission's investigation. This multiple representation, however, presents a potential conflict of interest if one client's interests are or may be adverse to another's. If you are represented by counsel who also represents other persons involved in the investigation, the Commission will assume that you and counsel have discussed and resolved all issues concerning possible conflicts of interest. The choice of counsel, and the responsibility for that choice, is yours.

3. Transcript Availability. Rule 6 of the Commission's Rules Relating to Investigations, 17 CFR 203.6, states:

A person who has submitted documentary evidence or testimony in a formal investigative proceeding shall be entitled, upon written request, to procure a copy of his documentary evidence or a transcript of his testimony on payment of the appropriate fees: *Provided, however*, That in a nonpublic formal investigative proceeding the Commission may for good cause deny such request. In any event, any witness, upon proper identification, shall have the right to inspect the official transcript of the witness' own testimony.

If you wish to purchase a copy of the transcript of your testimony, the reporter will provide you with a copy of the appropriate form. Persons requested to supply information voluntarily will be allowed the rights provided by this rule.

4. *Perjury.* Section 1621 of Title 18 of the United States Code provides that fines and terms of imprisonment may be imposed upon:

Whoever--

(1) having taken an oath before a competent tribunal, officer, or person, in any case in which a law of the United States authorizes an oath to be administered, that he will testify, declare,

depose, or certify truly, or that any written testimony, declaration, deposition, or certificate by him subscribed, is true, willfully and contrary to such oath states or subscribes any material matter which he does not believe to be true; or

- (2) in any declaration, certificate, verification, or statement under penalty of perjury as permitted under section 1746 of title 28, United States Code, willfully subscribes as true any material matter which he does not believe to be true.
- 5. Fifth Amendment and Voluntary Testimony. Information you give may be used against you in any federal, state, local or foreign administrative, civil or criminal proceeding brought by the Commission or any other agency.

You may refuse, in accordance with the rights guaranteed to you by the Fifth Amendment to the Constitution of the United States, to give any information that may tend to incriminate you.

If your testimony is not pursuant to subpoena, your appearance to testify is voluntary, you need not answer any question, and you may leave whenever you wish. Your cooperation is, however, appreciated.

6. Formal Order Availability. If the Commission has issued a formal order of investigation, it will be shown to you during your testimony, at your request. If you desire a copy of the formal order, please make your request in writing.

C. Submissions and Settlements

Rule 5(c) of the Commission's Rules on Informal and Other Procedures, 17 CFR 202,5(c), states:

Persons who become involved in . . . investigations may, on their own initiative, submit a written statement to the Commission setting forth their interests and position in regard to the subject matter of the investigation. Upon request, the staff, in its discretion, may advise such persons of the general nature of the investigation, including the indicated violations as they pertain to them, and the amount of time that may be available for preparing and submitting a statement prior to the presentation of a staff recommendation to the Commission for the commencement of an administrative or injunction proceeding. Submissions by interested persons should be forwarded to the appropriate Division Director or Regional Director with a copy to the staff members conducting the investigation and should be clearly referenced to the specific investigation to which they relate. In the event a recommendation for the commencement of an enforcement proceeding is presented by the staff, any submissions by interested persons will be forwarded to the Commission in conjunction with the staff memorandum.

The staff of the Commission routinely seeks to introduce submissions made pursuant to Rule 5(c) as evidence in Commission enforcement proceedings, when the staff deems appropriate.

Rule 5(f) of the Commission's Rules on Informal and Other Procedures, 17 CFR 202.5(f), states:

In the course of the Commission's investigations, civil lawsuits, and administrative proceedings, the staff, with appropriate authorization, may discuss with persons involved the disposition of such matters by consent, by settlement, or in some other manner. It is the policy of the Commission, however, that the disposition of any such matter may not, expressly or impliedly, extend to any criminal charges that have been, or may be, brought against any such person or any recommendation with respect thereto. Accordingly, any person involved in an enforcement matter before the Commission who consents, or agrees to consent, to any judgment or order does so solely for the purpose of resolving the claims against him in that investigative, civil, or administrative matter and not for the purpose of resolving any criminal charges that have been, or might be, brought against him. This policy reflects the fact that neither the Commission nor its staff has the authority or responsibility for instituting, conducting, settling, or otherwise disposing of criminal proceedings. That authority and responsibility are vested in the Attorney General and representatives of the Department of Justice.

D. Freedom of Information Act

The Freedom of Information Act, 5 U.S.C. 552 (the "FOIA"), generally provides for disclosure of information to the public. Rule 83 of the Commission's Rules on Information and Requests, 17 CFR 200.83, provides a procedure by which a person can make a written request that information submitted to the Commission not be disclosed under the FOIA. That rule states that no determination as to the validity of such a request will be made until a request for disclosure of the information under the FOIA is received. Accordingly, no response to a request that information not be disclosed under the FOIA is necessary or will be given until a request for disclosure under the FOIA is received. If you desire an acknowledgment of receipt of your written request that information not be disclosed under the FOIA, please provide a duplicate request, together with a stamped, self-addressed envelope.

E. Authority for Solicitation of Information

Persons Directed to Supply Information Pursuant to Subpoena. The authority for requiring production of information is set forth in the subpoena. Disclosure of the information to the Commission is mandatory, subject to the valid assertion of any legal right or privilege you might have.

Persons Requested to Supply Information Voluntarily. One or more of the following provisions authorizes the Commission to solicit the information requested: Sections 19 and/or 20 of the Securities Act of 1933; Section 21 of the Securities Exchange Act of 1934; Section 321 of the Trust Indenture Act of 1939; Section 42 of the Investment Company Act of 1940; Section 209 of the Investment Advisers Act of 1940; and 17 CFR 202.5. Disclosure of the requested information to the Commission is voluntary on your part.

F. Effect of Not Supplying Information

Persons Directed to Supply Information Pursuant to Subpoena. If you fail to comply with the subpoena, the Commission may seek a court order requiring you to do so. If such an order is obtained and you thereafter fail to supply the information, you may be subject to civil and/or criminal sanctions for contempt of court. In addition, Section 21(c) of the Securities Exchange Act of 1934, Section 42(c) of the Investment Company Act of 1940, and Section 209(c) of the Investment Advisers Act of 1940 provide that fines and terms of imprisonment may be imposed upon any person who shall, without just cause, fail or refuse to attend and testify or to answer any lawful inquiry, or to produce books, papers, correspondence, memoranda, and other records in compliance with the subpoena.

Persons Requested to Supply Information Voluntarily. There are no direct sanctions and thus no direct effects for failing to provide all or any part of the requested information.

G. Principal Uses of Information

The Commission's principal purpose in soliciting the information is to gather facts in order to determine whether any person has violated, is violating, or is about to violate any provision of the federal securities laws or rules for which the Commission has enforcement authority, such as rules of securities exchanges and the rules of the Municipal Securities Rulemaking Board. Facts developed may, however, constitute violations of other laws or rules. Information provided may be used in Commission and other agency enforcement proceedings. Unless the Commission or its staff explicitly agrees to the contrary in writing, you should not assume that the Commission or its staff acquiesces in, accedes to, or concurs or agrees with, any position, condition, request, reservation of right, understanding, or any other statement that purports, or may be deemed, to be or to reflect a limitation upon the Commission's receipt, use, disposition, transfer, or retention, in accordance with applicable law, of information provided.

H. Routine Uses of Information

The Commission often makes its files available to other governmental agencies, particularly United States Attorneys and state prosecutors. There is a likelihood that information supplied by you will be made available to such agencies where appropriate. Whether or not the Commission makes its files available to other governmental agencies is, in general, a confidential matter between the Commission and such other governmental agencies.

Set forth below is a list of the routine uses which may be made of the information furnished.

- 1. To appropriate agencies, entities, and persons when (1) the SEC suspects or has confirmed that there has been a breach of the system of records, (2) the SEC has determined that as a result of the suspected or confirmed breach there is a risk of harm to individuals, the SEC (including its information systems, programs, and operations), the Federal Government, or national security; and (3) the disclosure made to such agencies, entities, and persons is reasonably necessary to assist in connection with the SEC's efforts to respond to the suspected or confirmed breach or to prevent, minimize, or remedy such harm.
- 2. To other Federal, state, local, or foreign law enforcement agencies; securities self-regulatory organizations; and foreign financial regulatory authorities to assist in or coordinate regulatory or law enforcement activities with the SEC.
- 3. To national securities exchanges and national securities associations that are registered with the SEC, the Municipal Securities Rulemaking Board; the Securities Investor Protection Corporation; the Public Company Accounting Oversight Board; the Federal banking authorities, including, but not limited to, the Board of Governors of the Federal Reserve System, the Comptroller of the Currency, and the Federal Deposit Insurance Corporation; state securities regulatory agencies or organizations; or regulatory authorities of a foreign government in connection with their regulatory or enforcement responsibilities.
- 4. By SEC personnel for purposes of investigating possible violations of, or to conduct investigations authorized by, the Federal securities laws.
- 5. In any proceeding where the Federal securities laws are in issue or in which the Commission, or past or present members of its staff, is a party or otherwise involved in an official capacity.
- 6. In connection with proceedings by the Commission pursuant to Rule 102(e) of its Rules of Practice, 17 CFR 201.102(e).

- 7. To a bar association, state accountancy board, or other Federal, state, local, or foreign licensing or oversight authority; or professional association or self-regulatory authority to the extent that it performs similar functions (including the Public Company Accounting Oversight Board) for investigations or possible disciplinary action.
- 8. To a Federal, state, local, tribal, foreign, or international agency, if necessary to obtain information relevant to the SEC's decision concerning the hiring or retention of an employee; the issuance of a security clearance; the letting of a contract; or the issuance of a license, grant, or other benefit.
- 9. To a Federal, state, local, tribal, foreign, or international agency in response to its request for information concerning the hiring or retention of an employee; the issuance of a security clearance; the reporting of an investigation of an employee; the letting of a contract; or the issuance of a license, grant, or other benefit by the requesting agency, to the extent that the information is relevant and necessary to the requesting agency's decision on the matter.
- 10. To produce summary descriptive statistics and analytical studies, as a data source for management information, in support of the function for which the records are collected and maintained or for related personnel management functions or manpower studies; may also be used to respond to general requests for statistical information (without personal identification of individuals) under the Freedom of Information Act.
- 11. To any trustee, receiver, master, special counsel, or other individual or entity that is appointed by a court of competent jurisdiction, or as a result of an agreement between the parties in connection with litigation or administrative proceedings involving allegations of violations of the Federal securities laws (as defined in section 3(a)(47) of the Securities Exchange Act of 1934, 15 U.S.C. 78c(a)(47)) or pursuant to the Commission's Rules of Practice, 17 CFR 201.100 through 900 or the Commission's Rules of Fair Fund and Disgorgement Plans, 17 CFR 201.1100 through 1106, or otherwise, where such trustee, receiver, master, special counsel, or other individual or entity is specifically designated to perform particular functions with respect to, or as a result of, the pending action or proceeding or in connection with the administration and enforcement by the Commission of the Federal securities laws or the Commission's Rules of Practice or the Rules of Fair Fund and Disgorgement Plans.
- 12. To any persons during the course of any inquiry, examination, or investigation conducted by the SEC's staff, or in connection with civil litigation, if the staff has reason to believe that the person to whom the record is disclosed may have further information about the matters related therein, and those matters appeared to be relevant at the time to the subject matter of the inquiry.
- 13. To interns, grantees, experts, contractors, and others who have been engaged by the Commission to assist in the performance of a service related to this system of records and who need access to the records for the purpose of assisting the Commission in the efficient administration of its programs, including by performing clerical, stenographic, or data analysis functions, or by reproduction of records by electronic or other means. Recipients of these records shall be required to comply with the requirements of the Privacy Act of 1974, as amended, 5 U.S.C. 552a.
- 14. In reports published by the Commission pursuant to authority granted in the Federal securities laws (as such term is defined in section 3(a)(47) of the Securities Exchange Act of 1934, 15 U.S.C. 78c(a)(47)), which authority shall include, but not be limited to, section 21(a) of the Securities Exchange Act of 1934, 15 U.S.C. 78u(a)).
- 15. To members of advisory committees that are created by the Commission or by Congress to render advice and recommendations to the Commission or to Congress, to be used solely in connection with their official designated functions.
- 16. To any person who is or has agreed to be subject to the Commission's Rules of Conduct, 17 CFR 200.735-1 through 200.735-18, and who assists in the investigation by the Commission of possible violations of the Federal securities laws (as such term is defined in section 3(a)(47) of the Securities Exchange Act of 1934, 15 U.S.C. 78c(a)(47)), in the preparation or conduct of enforcement actions brought by the Commission for such violations, or otherwise in connection with the Commission's enforcement or regulatory functions under the Federal securities laws.
- 17. To a Congressional office from the record of an individual in response to an inquiry from the Congressional office made at the request of that individual.
- 18. To members of Congress, the press, and the public in response to inquiries relating to particular Registrants and their activities, and other matters under the Commission's jurisdiction.
- 19. To prepare and publish information relating to violations of the Federal securities laws as provided in 15 U.S.C. 78c(a)(47)), as amended.
- 20. To respond to subpoenas in any litigation or other proceeding.
- 21. To a trustee in bankruptcy.
- 22. To any governmental agency, governmental or private collection agent, consumer reporting agency or commercial reporting agency, governmental or private employer of a debtor, or any other person, for collection,

including collection by administrative offset, Federal salary offset, tax refund offset, or administrative wage garnishment, of amounts owed as a result of Commission civil or administrative proceedings.

23. To another Federal agency or Federal entity, when the SEC determines that information from this system of records is reasonably necessary to assist the recipient agency or entity in (1) responding to a suspected or confirmed breach or (2) preventing, minimizing, or remedying the risk of harm to individuals, the recipient agency or entity (including its information systems, programs, and operations), the Federal Government, or national security, resulting from a suspected or confirmed breach.

* * * * *

Small Business Owners: The SEC always welcomes comments on how it can better assist small businesses. If you would like more information, or have questions or comments about federal securities regulations as they affect small businesses, please contact the Office of Small Business Policy, in the SEC's Division of Corporation Finance, at 202-551-3460. If you would prefer to comment to someone outside of the SEC, you can contact the Small Business Regulatory Enforcement Ombudsman at http://www.sba.gov/ombudsman or toll free at 888-REG-FAIR. The Ombudsman's office receives comments from small businesses and annually evaluates federal agency enforcement activities for their responsiveness to the special needs of small business.



U.S. Securities and Exchange Commission

Data Delivery Standards

This document describes the technical requirements for paper and electronic document productions to the U.S. Securities and Exchange Commission (SEC). **Any questions or proposed file formats other than those described below must be discussed with the legal and technical staff of the SEC Division of Enforcement prior to submission.**

OCHE	at tistiuctions	
Deliv	cry Formats	2
Ι.	Imaged Productions	
	1. Images	-
	Image Cross-Reference File	
	3. Data File	-
	4. Text	
	5. Linked Native Files	-
	Native File Productions without Load Files	
[[[. Adobe PDF File Productions	
	. Audio Files	
	Video Files	
VI	Electronic Trade and Bank Records	_4
VI	I. Electronic Phone Records	. 4
VI	II. Audit Workpapers	5
ĮΧ	Mobile Device Data	5

General Instructions

Conoral Instructions

The current mailing address for all physical productions sent to the SEC is:

ENF-CPU (U.S. Securities & Exchange Commission), 14420 Albemarle Point Place, Suite 102, Chantilly, VA 20151-1750

Electronic files must be produced in their native format, i.e. the format in which they are ordinarily used and maintained during the normal course of business. For example, an MS Excel file must be produced as an MS Excel file rather than an image of a spreadsheet. (Note: An Adobe PDF file is not considered a native file unless the document was initially created as a PDF.)

In the event produced files require the use of proprietary software not commonly found in the workplace, the SEC will explore other format options with the producing party.

The proposed use of file de-duplication methodologies or computer-assisted review or technology-assisted review (TAR) during the processing of documents must be discussed with and approved by the legal and technical staff of the Division of Enforcement (ENF). If your production will be de-duplicated it is vital that you 1) preserve any unique metadata associated with the duplicate files, for example, custodian name and file location and, 2) make that unique metadata part of your production to the SEC.

General requirements for ALL document productions are:

- 1. A cover letter must be included with each production and should include the following information:
 - a. Case number, ease name and requesting SEC staff member name
 - b. A list of each piece of media included in the production with its unique production volume number
 - c. A list of custodians, identifying the Bates range for each custodian
 - d. A list of redacted documents and the redaction reason
 - e. The time zone in which the emails were standardized during conversion
 - f. Whether the production contains native files produced from Mac operating system environments
- 2. Data can be produced on CD, DVD, thumb drive, etc., using the media requiring the least number of deliverables and labeled with the following:
 - a. Case number
 - b. Production date
 - c. Producing party
 - d. Bates range (if applicable)
- All submissions must be organized by custodian unless otherwise instructed.
- 4. All document family groups, i.e. email attachments, embedded files, etc., should be produced together and children files should follow parent files sequentially in the Bates numbering.
- 5. All load-ready collections should include only one data load file and one image pointer file.
- 6. All load-ready text must be produced as separate document-level text files.
- 7. All load-ready collections should account for custodians in the custodian field.
- All load-ready collections must provide the extracted contents of any container files to ensure all relevant files are produced as separate records.
- 9. Audio files should be separated from data files if both are included in the production.
- Only alphanumeric characters and the underscore character are permitted in file names and folder names. Special characters
 are not permitted.
- 11. All electronic productions submitted on media must be produced using industry standard self-extracting encryption software.
- 12. The SEC uses 7zip to access compressed files. Note that the SEC **cannot** accept files that use AES-256 Jpeg or pkAES-256-Cert Deflate compression methods, even if the files are created with 7zip. If you have any questions or need additional information, please reach out to the requesting SEC staff member.
- 13. Electronic productions of 20 GB or less are strongly encouraged to be submitted via Secure File Transfer. All Secure File Transfers should be sent to the SEC Centralized Production Unit (ENF-CPU@sec.gov) with a CC to the requesting SEC staff member. If you do not have your own Secure File Transfer application, you may reach out to the requesting SEC staff member for a link to the SEC system in order to upload your production. If using the SEC Secure File Transfer system, you will NOT be able to CC individuals outside the SEC on your upload transmission. Note that the SEC cannot accept productions made using file sharing sites such as Google Drive, Microsoft Office 365 or Dropbox.
- 14. Productions containing BSA or SAR material must be encrypted. Secure File Transfer applications may be used to produce BSA or SAR material. BSA or SAR material should be segregated and appropriately marked as BSA or SAR, or should be produced separately from other case related records.
- 15. Passwords for electronic documents, files, compressed archives and encrypted media must be provided separately either via email or in a cover letter apart from the media.
- 16. All electronic productions should be produced free of computer viruses.
- Before producing forensically collected images, parties should reach out to the requesting SEC staff member in order to discuss appropriate handling.
- 18. Before producing unique data sets (large sets of relational data, website reconstruction, chat room data, etc.), parties should reach out to the requesting SEC staff member in order to discuss an appropriate production format.
- Additional technical descriptions can be found in the addendum to this document.

Please note that productions sent to the SEC via United States Postal Service are subject to Mail Irradiation, and as a result electronic productions may be damaged.

Delivery Formats

Imaged Productions

The SEC prefers that all scanned paper and electronic file collections be produced in a structured format including industry standard load files, Bates numbered image files, native files and searchable document-level text files. Bates numbers should not contain spaces. Hyphens (-) and underscores () are acceptable.

1. Images

- a. Black and white images must be 300 DPI Group IV single-page TIFF files
- b. Color images must be produced in JPEG format
- c. File names cannot contain embedded spaces or special characters (including the comma)
- d. Folder names cannot contain embedded spaces or special characters (including the comma)
- c. All image files must have a unique file name, i.e. Bates number
- f. Images must be endorsed with sequential Bates numbers in the lower right corner of each image
- The number of image files per folder should not exceed 2,000 files g.
- h. Excel spreadsheets should have a placeholder image named by the Bates number of the file
- AUTOCAD/photograph files should be produced as a single page JPEG file

2. Image Cross-Reference File

The image cross-reference file (.LOG or .OPT) links the images to the database records. It should be a comma-delimited file consisting of seven fields per line with a line in the cross-reference file for every image in the database with the following format:

ImageID, VolumeLabel, ImageFilePath, DocumentBreak, FolderBreak, BoxBreak, PageCount

3. Data File

The data file (.DAT) contains all of the fielded information that will be loaded into the database.

- The first line of the .DAT file must be a header row identifying the field names
- The .DAT file must use the following *Concordance*® default delimiters:

Comma ¶ ASCII character (020)

Quote b ASCII character (254)

- c. If the .DAT file is produced in Unicode format it must contain the byte order marker
- d. Date fields should be provided in the format: mm/dd/yyyy
- e. Date and time fields must be two separate fields
- ſ. The time zone must be included in all time fields
- If the production includes imaged emails and attachments, the attachment fields must be included to preserve the parent/child relationship between an email and its attachments
- An OCRPATH field must be included to provide the file path and name of the extracted text file on the produced storage media. The text file must be named after the FIRSTBATES. Do not include the text in the .DAT file.
- For productions with native files, a LINK field must be included to provide the file path and name of the native file on the produced storage media. The native file must be named after the FIRSTBATES.
- BEGATTACH and ENDATTACH fields must be two separate fields
- A complete list of metadata fields is available in Addendum A to this document

4. Text

Text must be produced as separate document-level text files, not as fields within the .DAT file. The text files must be named per the FIRSTBATES/Image Key and the full path to the text file (OCRPATH) should be included in the .DAT file. Text files may be in either ANSI or Unicode format, however, ALL text files must be in the same format within the same production. Note that productions containing text with foreign characters must produce text files in Unicode format to preserve the foreign characters. Text files must be in a separate folder, and the number of text files per folder should not exceed 2,000 files. There should be no special characters (including commas) in the folder names. For redacted documents, provide the full text for the redacted version.

Linked Native Files

Copies of original email and native file documents/attachments must be included for all electronic productions.

- a. Native file documents must be named per the FIRSTBATES number
- b. The full path of the native file must be provided in the .DAT file for the LINK field
- The number of native files per folder should not exceed 2,000 files

11. Native File Production without Load Files

With prior approval, native files may be produced without load files. Native file productions should not be Bates numbered. Native files must be produced as they are maintained in the normal course of business and organized by custodian-named file folders. Native email files (.PST or .MBOX) must be separated by custodian.

III. Adobe PDF File Production

With prior approval, Adobe PDF files may be produced in native file format.

- 1. All PDFs must be unitized at the document level, i.e., each PDF must represent a discrete document.
- 2. PDF files should be produced in separate folders named by the custodian. The folders should not contain any special characters (including commas).
- 3. All PDF files must contain embedded text that includes all discernible words within the document, not selected text or image only. This requires all layers of the PDF to be flattened first.
- 4. If PDF files are Bates endorsed, the PDF files must be named by the Bates range.

IV. Audio Files

Audio files from telephone recording systems must be produced in a format that is playable using Microsoft Windows Media PlayerTM. Additionally, the call information (metadata) related to each audio recording MUST be provided. The metadata file must be produced in a delimited text format. Field names must be included in the first row of the text file. The metadata must include, at a minimum, the following fields:

1) Caller Name: Caller's name or account/identification number

2) Originating Number: Caller's phone number3) Called Party Name: Called party's name

4) Terminating Number: Called party's phone number

5) Date: Date of call 6) Time: Time of call

7) Filename: Filename of audio file

V. Video Files

Video files must be produced in a format that is playable using Microsoft Windows Media Player™.

VI. Electronic Trade and Bank Records

When producing electronic trade records, bank records, or financial statements, provide the files in one of the following formats:

- 1. MS Excel spreadsheet with header information detailing the field structure. If any special codes exist in the dataset, a separate document must be provided that details all such codes. If details of the field structure do not fit in the header, a separate document must be provided that includes such details.
- 2. Delimited text file with header information detailing the field structure. The preferred delimiter is a vertical bar "|". If any special codes exist in the dataset, a separate document must be provided that details all such codes. If details of the field structure do not fit in the header, a separate document must be provided that includes such details.

VII. Electronic Phone Records

When producing an MS Excel spreadsheet for electronic phone records, provide the files in the following format:

- 1. MS Excel spreadsheet with header information detailing the field structure. If any special codes exist in the dataset, a separate document must be provided that details all such codes. If details of the field structure do not fit in the header, a separate document must be provided that includes such details. Data must be formatted in its native format (i.e. dates in a date format, numbers in an appropriate numerical format, and numbers with leading zeroes as text).
 - a. The metadata that must be included is outlined in **Addendum B** of this document. Each field of data must be loaded into a separate column. For example, Date and Start_Time must be produced in separate columns and not combined into a single column containing both pieces of information. Any fields of data that are provided in addition to those listed in **Addendum B** must also be loaded into separate columns.

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Data Delivery Standards

VIII. Audit Workpapers

The SEC prefers for workpapers to be produced in two formats: (1) With Bates numbers in accordance with the SEC Data Delivery Standards; and (2) in native format or if proprietary software was used, on a standalone laptop with the appropriate software loaded so that the workpapers may be reviewed as they would have been maintained in the ordinary course of business. The laptop must have printing capability, and when possible, the laptop should be configured to enable a Virtual Machine (VM) environment.

IX. Mobile Device Data

Before producing any mobile device data (including but not limited to text messages and application data) parties should reach out to the requesting SEC staff member in order to discuss the appropriate production format.

ADDENDUM A

The metadata of electronic document collections should be extracted and provided in a .DAT file using the field definition and formatting described below:

Field Name	Sample Data	Description
FIRSTBATES	EDC0000001	First Bates number of native file document/email
LASTBATES	EDC0000001	Last Bates number of native file document/email
		**The LASTBATES field should be populated
		for single page documents/emails.
ATTACHRANGE	EDC0000001 - EDC0000015	Bates number of the first page of the parent
		document to the Bates number of the last page of the
		last attachment "child" document
BEGATTACH	EDC0000001	First Bates number of attachment range
ENDATTACH	EDC0000015	Last Bates number of attachment range
PARENT_BATES	EDC0000001	First Bates number of parent document/Email **This PARENT BATES field should be populated in each record representing an attachment "child" document
CHILD BATES	EDC0000002; EDC0000014	First Bates number of "child" attachment(s); can be
_		more than one Bates number listed depending on the
		number of attachments
		**The CHILD BATES field should be populated in
		each record representing a "parent" document
CUSTODIAN	Smith, John	Email: Mailbox where the email resided
		Native: Name of the individual or department from
		whose files the document originated
FROM	John Smith	Email: Sender
		Native: Author(s) of document
		**semi-colon should be used to separate multiple
		entries
ТО	Coffman, Janice; LeeW	Recipient(s)
	[mailto:LeeW@MSN.com]	**semi-colon should be used to separate multiple
6161	- 1 ml	entries
CC	Frank Thompson [mailto:	Carbon copy recipient(s)
	frank Thompson@cdt.com]	**semi-colon should be used to separate multiple
BCC	John Cain	entries Dlind control conversations (a)
BCC	John Cain	Blind carbon copy recipient(s) **scmi-colon should be used to separate multiple
		entries
SUBJECT	Board Meeting Minutes	Email: Subject line of the email
SOUTE. I	Board Weeting Windles	Native: Title of document (if available)
FILE_NAME	BoardMeetingMinutes.doex	Native: Name of the original native file, including
TIEE_NAME	Boardweetingwindies.doex	extension
DATE_SENT	10/12/2010	Email: Date the email was sent
27112_52141	10,12,2010	Native: (empty)
TIME SENT/TIME	07:05 PM GMT	Email: Time the email was sent/ Time zone in which
ZONE		the emails were standardized during conversion.
_		Native: (cmpty)
		**This data must be a separate field and cannot be
		combined with the DATE_SENT field
TIME_ZONE	GMT	The time zone in which the emails were standardized
		during conversion.
		Email: Time zone
		Native: (empty)

LINK	D:\001\EDC0000001.msg	Hyperlink to the email or native file document **The linked file must be named per the FIRSTBATES number
MIME_TYPE	application/msword	The content type of an email or native file document as identified/extracted from the header
FILE_EXTEN	MSG	The file type extension representing the email or native file document; will vary depending on the format
AUTHOR	John Smith	Email: (empty) Native: Author of the document
LAST_AUTHOR	Jane Doe	Email: (empty) Native: Last Author of the document
DATE_CREATED	10/10/2010	Email: (empty) Native: Date the document was created
TIME_CREATED/T IME_ZONE	10:25 AM GMT	Email: (empty) Native: Time the document was created including time zone **This data must be a separate field and cannot be combined with the DATE_CREATED field
DATE_MOD	10/12/2010	Email: (empty) Native: Date the document was last modified
TIME_MOD/TIME_ ZONE	07:00 РМ GMT	Email: (empty) Native: Time the document was last modified including the time zone **This data must be a separate field and cannot be combined with the DATE MOD field
DATE_ACCESSD	10/12/2010	Email: (empty) Native: Date the document was last accessed
TIME_ACCESSD/T IME_ZONE	07:00 PM GMT	Email: (empty) Native: Time the document was last accessed including the time zone **This data must be a separate field and cannot be combined with the DATE_ACCESSD field
PRINTED_DATE	10/12/2010	Email: (empty) Native: Date the document was last printed
FILE SIZE	5,952	Size of native file document/email in KB
PGCOUNT	1	Number of pages in native file document/email
РАТН	J:\Shared\SmithJ\October Agenda.doc	Email: (empty) Native: Path where native file document was stored including original file name.
INTFILEPATH	Personal Folders\Deleted Items\Board Meeting Minutes.msg	Email: original location of email including original file name. Native: (empty)
INTMSGID	<000805c2c71b\$75977050\$cb 8306d1@MSN>	Email: Unique Message ID Native: (empty)

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HEADER	Return-Path: <example_from@dc.edu> X-SpamCatcher-Score:1[X] Reccived:from[136.167.40.119] (HELO dc.edu) by fe3.dc.edu (CommuniGate Pro SMTP4.1.8) with ESMTP-TLS id 61258719 for example_to@mail.dc.edu; Mon, 23 Aug 2004 11:40:10 - 0400 Message-ID: <4129F3CA.2020509@dc.edu> Date: Mon, 23 Aug 2005 11:40:36 -400 From: Taylor Evans <example_from@dc.edu> Uscr-Agent:Mozilla/5.0 (Windows;U; Windows NT 5.1: cn-US;rv:1.0.1) Gecko/20020823 Netscape/7.0 X-Accept-Language:en-us,en MIME-Version:1.0 To: Jon Smith <example_to@mail.dc.edu> Subject:Business Development Mceting Content-Type: text/plain;charset=us-ascii; format=flowed Content-Transfer-Encoding:7bit</example_to@mail.dc.edu></example_from@dc.edu></example_from@dc.edu>	
SIIA256	AD6128C5CA40164AF71A1E FC800E12D2F195CE07BB5F8 C813B0888A2DDE6A06F	SHA-256 hash value of the document.
OCRPATH	TEXT/001/EDC0000001.txt	Path to extracted text of the native file

Sample Image Cross-Reference File:

IMG0000001,,E:\001\IMG0000001.TIF,Y,,,
IMG0000002,,E:\001\IMG0000002.TIF,,,,
IMG0000003,,E:\001\IMG0000003.TIF,,,,
IMG0000004,,E:\001\IMG0000004.TIF,Y,,,
IMG0000005,,E:\001\IMG0000005.TIF,Y,,,
IMG0000006,,E:\001\IMG0000006.TIF,y,,,

ADDENDUM B

For Electronic Phone Records, include the following fields in separate columns:

For Calls:

- 1) Account Number
- 2) Connection Date Date the call was received or made
- 3) Connection Time Time call was received or made
- 4) Seizure Time Time it took for the call to be placed in seconds
- 5) Originating Number Phone that placed the call
- 6) Terminating Number Phone that received the call
- 7) Elapsed Time The length of time the call lasted, preferably in seconds
- 8) End Time The time the call ended
- 9) Number Dialed Actual number dialed
- 10) IMEI Originating Unique id to phone used to make call
- 11) IMEI Terminating Unique id to phone used to receive call
- 12) IMSI Originating Unique id to phone used to make call
- 13) IMSI Terminating- Unique id to phone used to receive call
- 14) Call Codes Identify call direction or other routing information
- 15) Time Zone Time Zone in which the call was received or placed, if applicable

For Text messages:

- 1) Account Number
- Connection Date Date the text was received or made
- 3) Connection Time Time text was received or made
- 4) Originating Number Who placed the text
- 5) Terminating Number Who received the text
- 6) IMEI Originating Unique id to phone used to make text
- 7) IMEI Terminating Unique id to phone used to receive text
- 8) IMSI Originating Unique id to phone used to make text
- 9) IMSI Terminating- Unique id to phone used to receive text
- 10) Text Code Identify text direction, or other text routing information
- 11) Text Type Code Type of text message (sent SMS, MMS, or other)
- 12) Time Zone Time Zone in which the call was received or placed, if applicable

For Mobile Data Usage:

- 1) Account Number
- 2) Connection Date Date the data was received or made
- 3) Connection Time Time data was received or made
- 4) Originating number Number that used data
- 5) IMEI Originating Unique id of phone that used data
- 6) IMSI Originating Unique id of phone that used data
- 7) Data or Data codes Identify data direction, or other data routing information
- 8) Time Zone Time Zone in which the call was received or placed, if applicable

To: Cc:	(b)(6); (b)(7)(C) Dethereum org (b)(6); (b)(7)(C) Dethereum org (b)(6); (b)(7)(C) Dethereum org (b)(6); (b)(6)
From:	(b)(6); (b)(7)(C)
Sent:	¹ 2023-12-04T20:59:16Z
Subject:	Subpoena from U.S. Securities and Exchange Commission
Received: 2023.12.0	2023-12-04T20:59 <u>:20Z</u> 4 C-8950 SEC Subpoena to (b)(6); (b)(7)(C)
Good aft	rernoon,
Please se or my co	ee attached a subpoena from the U.S. Securities and Exchange Commission. If you have any questions, you can contact me or (b)(6); (b)(7)(C) or (b)(6); (b)(7)(C)
Thank yo (b)(6); (b)(7)(C)	ou,
	Enforcement creet, Suite 20-100
May H	(b)(6); (b)(7)(C) <u>sec.gov</u>

U.S. Securities and Exchange Commission

To:



UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Chicago Regional Office 175 West Jackson, Suite 1450 Chicago, IL 60604

DIVISION OF ENFORCEMENT

(b)(6); (b)(7)	(C)	
(b)(6); (b)(7)(C)	sec.go	J V

December 4, 2023

VIA UPS and EMAIL (b)(6); (b)(7)(C)	@ethereum.org	
(b)(6); (b)(7)(C)		

Re: Ethereum 2.0 (C-08950)

Dear	(b)(6); (b)(7)(C)

The staff of the Chicago Regional Office of the United States Securities and Exchange Commission is conducting an investigation in the matter identified above. The enclosed subpoena has been issued to you as part of this investigation. The subpoena requires you to provide us documents and give sworn testimony. Please note that if you comply with the instructions for producing documents, you will not need to appear for testimony at the indicated time.

Please read the subpoena and this letter carefully. This letter answers some questions you may have about the subpoena. You should also read the enclosed SEC Form 1662. If you do not comply with this subpoena, the SEC may bring an action in Federal Court to enforce this subpoena. Failure to comply with a court order enforcing this subpoena may result in the court imposing a fine, imprisonment or both.

Producing Documents

What materials do I have to produce?

The subpoena requires you to provide us the documents described in the attachment to the subpoena. You must provide these documents by December 18, 2023. The attachment to the subpoena defines some terms (such as "document") before listing what you must provide.

You should produce each and every document in your possession, custody, or control, including any documents that are not in your immediate possession but that you have the ability

Documents responsive to this subpoena may be in electronic or paper form. Electronic documents such as email should be produced in accordance with the attached document entitled SEC Data Delivery Standards (the "Standards"). If you have any questions concerning the production of documents in an electronic format, please contact me as soon as possible but in any event before producing documents. All electronic documents responsive to the document subpoena, including all metadata, must also be secured and retained in their native software format and stored in a safe place. The staff may later request or require that you produce the native format.

For documents in paper format, you may send the originals, or, if you prefer, you may send copies of the originals. The Commission cannot reimburse you for the copying costs. If you are sending copies, the staff requests that you scan (rather than photocopy) hard copy documents and produce them in an electronic format consistent with the Standards. Alternatively, you may send us photocopies of the documents in paper format. If you choose to send copies, you <u>must</u> secure and retain the originals and store them in a safe place. The staff may later request or require that you produce the originals.

Whether you scan or photocopy documents, the copies must be identical to the originals, including even faint marks or print. Also, please note that if copies of a document differ in any way, they are considered separate documents and you must send each one. For example, if you have two copies of the same letter, but only one of them has handwritten notes on it, you must send both the clean copy and the one with notes.

If you do send us scanned or photocopied documents, please put an identifying notation on each page of each document to indicate that you produced it, and number the pages of all the documents submitted. (For example, if Jane Doe sends documents to the staff, she may number the pages JD-1, JD-2, JD-3, etc., in a blank corner of the documents.) Please make sure the notation and number do not conceal any writing or marking on the document. If you send us originals, please do not add any identifying notations.

In producing a photocopy of an original document that contains post-it(s), notation flag(s), or other removable markings or attachments which may conceal all or a portion of the markings contained in the original document, photocopies of the original document both with and without the relevant post-it(s), notation flag(s), or removable markings or attachments should be produced.

Do I need to send anything else?

You should enclose a list briefly describing each item you send. The list should state to which numbered paragraph(s) in the subpoena attachment each item responds. A copy of the subpoena should be included with the documents that are produced.

Passwords for documents, files, compressed archives, and encrypted media should be provided separately either via email addressed to ENF-CPU@sec.gov, or in a separate cover

Please include a cover letter stating whether you believe you have met your obligations under the subpoena by searching carefully and thoroughly for everything called for by the subpoena, and sending it all to us. Correspondence should reference case number, case name and requesting SEC staff member.

Please also provide a narrative description describing what you did to identify and collect documents responsive to the subpoena. At a minimum, the narrative should describe:

- who searched for documents;
- who reviewed documents found to determine whether they were responsive;
- what sources were searched (e.g., computer files, CDs, DVDs, thumb drives, flash drives, online storage media, hard copy files, diaries, datebooks, planners, filing cabinets, home office, work office, voice mails, home email, webmail, work email, backup tapes or other media);
- what third parties, if any, were contacted to obtain responsive documents (e.g., phone companies for phone records, brokerage firms for brokerage records); and
- where the original electronic and hardcopy documents are maintained and by whom.

For any documents that qualify as records of regularly conducted activities under Federal Rule of Evidence 902(11), please complete a business records certification (a sample of which is enclosed) and return it with the document production.

What if I do not send everything described in the attachment to the subpoena?

The subpoena requires you to send all the materials described in it. If, for any reason including a claim of attorney-client privilege—you do not produce something called for by the subpoena, you should submit a list of what you are not producing. The list should describe each item separately, noting:

- its author(s);
- its date;
- its subject matter;
- the name of the person who has the item now, or the last person known to have it;
- the names of everyone who ever had the item or a copy of it, and the names of everyone who was told the item's contents;
- the reason you did not produce the item; and
- the specific request in the subpoena to which the document relates.

If you withhold anything on the basis of a claim of attorney-client privilege or attorney work product protection, you should identify the attorney and client involved. If you withhold anything on the basis of the work product doctrine, you should also identify the litigation in anticipation of which the document was prepared.

If documents responsive to this subpoena no longer exist because they have been lost, discarded, or otherwise destroyed, you should identify such documents and give the date on which they were lost, discarded or destroyed.

Where should I send the materials?

Please send the materials to:

ENF-CPU (U.S. Securities & Exchange Commission) 14420 ALBEMARLE POINT PL Suite 102 CHANTILLY, VA 20151-1750

For smaller electronic productions under 10MB in size, the materials may be emailed	l to
the following email address: ENF-CPU@sec.gov with copies to (0)(6).	
(b)(6): Escc.gov, and (b)(6): Escc.gov. If you would like to use the Commission's secur	e
electronic transfer site, Accellion/Kiteworks, please contact me and I will send you a link.	

Testifying

Where and when do I testify?

The subpoena requires you to come to the Commission's offices at 100 Pearl Street, Suite 20-100, New York, NY 10004 at 9:30 a.m. on December 22, 2023 to testify under oath in the matter identified on the subpoena. But, as noted above, if you comply with all the directions for producing documents, we will not require you to testify at the indicated time. We may require your testimony later, however.

Other Important Information

May I have a lawyer help me respond to the subpoena?

Yes. You have the right to consult with and be represented by your own lawyer in this matter. Your lawyer may also advise and accompany you when you testify. We cannot give you legal advice.

What will the Commission do with the materials I send and/or the testimony I provide?

The enclosed SEC Form 1662 explains how we may use the information you provide to the Commission. This form also has other important information for you. Please read it carefully.

Has the Commission determined that anyone has done anything wrong?

This investigation is a non-public, fact-finding inquiry. We are trying to determine whether there have been any violations of the federal securities laws. The investigation and the subpoena do not mean that we have concluded that you or anyone else has violated the law. Also, the investigation does not mean that we have a negative opinion of any person, entity or security.

Important Policy Concerning Settlements

Please note that, in any matter in which enforcement action is ultimately deemed to be warranted, the Division of Enforcement will not recommend any settlement to the Commission unless the party wishing to settle certifies, under penalty of perjury, that all documents responsive to Commission subpoenas and formal and informal document requests in this matter have been produced.

I have read this letter, the subpoena, and the SEC Form 1662, but I still have questions. What should I do?

If you ha	ave any other questions, you may call me at (b)(6); (b)(7)(C)	or (6)(6); (6)(7)(C)	at
	. If you are represented by a lawyer, you should have your la	awyer contact me.	ļ

Sincerely,

(b)(6); (b)(7)(C)	
Division (b)(6); (b)(7)(C)	of Enforcement
(b)(6); (b)(7)(C)	ýsec.gov

Enclosures: Subpoena and Attachment

SEC Data Delivery Standards

SEC Form 1662

Business Records Certification



SUBPOENA

UNITED STATES OF AMERICA SECURITIES AND EXCHANGE COMMISSION

In the Matter of Ethereum 2.0 (C-08950)

(p)(o), (p)(+)(C)		
		<u>-</u>
		es and Exchange Commission, at the place,
_		20-100, New York, NY 10004 on
you do not comply with th	is subpoena, the SEC may bring with a court order enforcing this	g an action in Federal Court to enforce this subpoena may result in the court imposing a
(b)(6); (b)(7)(C)	Date	December 4, 2023
	YOU MUST PRODUCT Securities and Exchange ENF-CPU, U.S. Securities and Exchange ENF-CPU, U.S. Securities, Chantilly, VA 2000 MUST TESTIFY date and time specified New York Regional Concember 22, 2023, and FEDERAL LAW you do not comply with the poena. Failure to comply we see the security of the security	YOU MUST PRODUCE everything specified in the A Securities and Exchange Commission, at the place, date ENF-CPU, U.S. Securities and Exchange Commi 102, Chantilly, VA 20151-1750, no later than De YOU MUST TESTIFY before officers of the Securities date and time specified below: New York Regional Office, 100 Pearl Street, Suite December 22, 2023, at 9:30 a.m. FEDERAL LAW REQUIRES YOU TO COMP you do not comply with this subpoena, the SEC may bring boena. Failure to comply with a court order enforcing this fine, imprisonment, or

I am an officer of the U.S. Securities and Exchange Commission authorized to issue subpoenas in this matter. The Securities and Exchange Commission has issued a formal order authorizing this investigation under: Section 20(a) of the Securities Act of 1933.

NOTICE TO WITNESS: If you claim a witness fee or mileage, submit this subpoena with the claim voucher

SUBPOENA ATTACHMENT FOR December 4, 2023

In the Matter of Ethereum 2.0 (C-08950)

A. Definitions

As used in this document subpoena, the words and phrases listed below shall have the following meanings:

- 1. "Relevant Period" means July 1, 2018 to the present.
- 2. The "Foundation" means the entity or business doing business under the name Ethereum Foundation, including ethereum.org and parents, subsidiaries, affiliates, predecessors, successors, officers, directors, employees, agents, general partners, limited partners, partnerships and aliases, owners, code names, or trade or business names used by any of the foregoing.
- 3. "EIP" means Ethereum Improvement Proposal.
- 4. "The Merge" or "Ethereum 2.0" means the transition by the Ethereum blockchain of its consensus mechanism from proof-of-work to proof-of-stake.
- 5. "Beacon Chain" means the original proof-of-stake blockchain that was launched in 2020 that ran alongside the original proof-of-work Ethereum blockchain.
- 6. "ETH" means Ether or the native crypto asset for the Ethereum blockchain and network.
- "Document" includes, but is not limited to, any written, printed, or typed matter including, but not limited to all drafts and copies bearing notations or marks not found in the original, letters and correspondence, interoffice communications, slips, tickets, records, worksheets, financial records, accounting documents, bookkeeping documents, memoranda, reports, manuals, telephone logs, telegrams, facsimiles, messages of any type, telephone messages, voice mails, tape recordings, notices, instructions, minutes, summaries, notes of meetings, file folder markings, and any other organizational indicia, purchase orders, information recorded by photographic process, including microfilm and microfiche, computer printouts, spreadsheets, and other electronically stored information, including but not limited to writings, drawings, graphs, charts, photographs, sound recordings, images, and other data or data compilations that are stored in any medium from which information can be retrieved, obtained, manipulated, or translated.
- 8. "Communication" means any correspondence, contact, discussion, e-mail, instant message, or any other kind of oral or written exchange or transmission of information (in the form of facts, ideas, inquiries, or otherwise), including but not limited to those made on Social Media Services, and any response thereto between two or more Persons or entities, including, without limitation, all

- telephone conversations, face-to-face meetings or conversations, internal or external discussions, or exchanges of a Document or Documents.
- 9. "Concerning" means directly or indirectly, in whole or in part, describing, constituting, evidencing, recording, evaluating, substantiating, concerning, referring to, alluding to, in connection with, commenting on, relating to, regarding, discussing, showing, analyzing or reflecting.
- 10. "Agreement" means any actual or contemplated (i) written or oral Agreement; (ii) term or provision of such Agreement; or (iii) amendment of any nature or termination of such Agreement. A request for any Agreement among or between specified parties includes a request for all Documents Concerning (i) any actual or contemplated Agreement among or between such parties, whether or not such Agreement included any other Person; (ii) the drafting or negotiation of any such Agreement; (iii) any actual or contemplated demand, request or application for any such Agreement, and any response thereto; and (iv) any actual or contemplated objection or refusal to enter into any such Agreement, and any response thereto.
- 11. "Person" means a natural person, firm, association, organization, partnership, business, trust, corporation, bank or any other private or public entity.
- 12. The term "you" and "your" means the Person or entity to whom this subpoena was issued.
- 13. To the extent necessary to bring within the scope of this subpoena any information or Documents that might otherwise be construed to be outside its scope:
 - a. the word "or" means "and/or";
 - b. the word "and" means "and/or";
 - c. the functional words "each," "every" "any" and "all" shall each be deemed to include each of the other functional words;
 - d. the masculine gender includes the female gender and the female gender includes the masculine gender; and
 - e. the singular includes the plural and the plural includes the singular.

B. <u>Instructions</u>

- 1. Unless otherwise specified, the subpoena calls for production of the original Documents and all copies and drafts of same. Documents responsive to this subpoena may be in electronic or paper form. Electronic Documents such as email should be produced in accordance with the attached document entitled SEC Data Delivery Standards. All electronic Documents responsive to the subpoena, including all metadata, should also be produced in their native software format.
- 2. For Documents in paper format, you may send the originals, or, if you prefer, you may send copies of the originals. The Commission cannot reimburse you for the copying costs. If you are sending copies, the staff requests that you scan (rather

than photocopy) hard copy Documents and produce them in an electronic format consistent with the SEC Data Delivery Standards. Alternatively, you may send us photocopies of the Documents in paper format. If you choose to send copies, you must secure and retain the originals and store them in a safe place. The staff may later request or require that you produce the originals.

- 3. Whether you scan or photocopy Documents, the copies must be identical to the originals, including even faint marks or print. Also, please note that if copies of a Document differ in any way, they are considered separate Documents and you must send each one. For example, if you have two copies of the same letter, but only one of them has handwritten notes on it, you must send both the clean copy and the one with notes.
- 4. In producing a photocopy of an original Document that contains post-it(s), notation flag(s), or other removable markings or attachments which may conceal all or a portion of the markings contained in the original Document, photocopies of the original Document both with and without the relevant post-it(s), notation flag(s), or removable markings or attachments should be produced.
- 5. Documents should be produced as they are kept in the ordinary course of business or be organized and labeled to correspond with the categories in this subpoena. In that regard, Documents should be produced in a unitized manner, *i.e.*, delineated with staples or paper clips to identify the Document boundaries.
- 6. Documents should be labeled with sequential numbering (bates-stamped).
- 7. The scope of any given request should not be limited or narrowed based on the fact that it calls for Documents that are responsive to another request.
- 8. You are not required to produce exact duplicates of any Documents that have been previously produced to the Securities and Exchange Commission staff in connection with this matter. If you are not producing Documents based upon a prior production, please identify the responsive Documents that were previously produced.
- 9. For any Documents that qualify as records of regularly conducted activities under Federal Rule of Evidence 902(11), please complete a business records certification (a sample of which is enclosed) and return it with the Document production.
- 10. This subpoena covers all Documents in or subject to your possession, custody or control, including all Documents that are not in your immediate possession but that you have the effective ability to obtain, that are responsive, in whole or in part, to any of the individual requests set forth below. If, for any reason including a claim of attorney-client privilege—you do not produce something called for by the subpoena, you should submit a list of what you are not producing. The list should be produced as an Excel file and describe each item separately, noting:

- its author(s); a.
- its date; b.
- its subject matter: c.
- the name of the Person who has the item now, or the last Person known to d.
- the names of everyone who ever had the item or a copy of it, and the e. names of everyone who was told the item's contents;
- the basis upon which you are not producing the responsive Document; f.
- the specific request in the subpoena to which the Document relates; g.
- the attorney(s) and the client(s) involved; and h.
- in the case of the work product doctrine, the litigation for which the i. Document was prepared in anticipation.
- If Documents responsive to this subpoena no longer exist because they have been 11. lost, discarded, or otherwise destroyed, you should identify such Documents and give the date on which they were lost, discarded or destroyed.

D. **Documents to be Immediately Preserved and Produced**

- 1. Documents and Communications Concerning the launch of the Beacon Chain, the Merge, and the website https://launchpad.ethereum.org, or any content published on the Launchpad's website.
- 2. Any organizational charts listing related entities and/or officers, directors, employees, or agents of the Foundation.
- 3. The Foundation's board meeting minutes (including drafts), agendas, and materials provided to the board or committee members provided to you Concerning the launch of the Beacon Chain; the Merge; the website https://launchpad.ethereum.org, or any content published on the Launchpad's website; or the Foundation's financial statements or financial condition.
- 4. All Documents Concerning any legal analysis of ETH issued after the Merge provided to you. Please note that the above Instructions discuss the procedures for how to handle privileged documents.
- 5. Documents sufficient to identify all investors in the Foundation (the "Investors") by name and address.
- 6. All Documents provided to, and Communications with, the Investors in connection with any offering of an interest in the ownership of the Foundation.

DECLARATION OF [Insert Name] CERTIFYING RECORDS OF REGULARLY CONDUCTED BUSINESS ACTIVITY

I, the undersigned, [insert name], pursuant to 28 U.S.C. § 1746, declare that:

- 1. I am employed by the Ethereum Foundation as [insert position] and by reason of my position am authorized and qualified to make this declaration. [if possible supply additional information as to how person is qualified to make declaration, e.g., I am custodian of records, I am familiar with the company's recordkeeping practices or systems, etc.]
- 2. I further certify that the documents [attached hereto or submitted herewith] and stamped [insert bates range] are true copies of records that were:
 - (a) made at or near the time of the occurrence of the matters set forth therein, by, or from information transmitted by, a person with knowledge of those matters;
 - (b) kept in the course of regularly conducted business activity; and
 - (c) made by the regularly conducted business activity as a regular practice.

I declare under penalty of perjury that the foregoing is true and correct. Executed on [date].

[Name]	

SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549

Supplemental Information for Persons Requested to Supply Information Voluntarily or Directed to Supply Information Pursuant to a Commission Subpoena

A. False Statements and Documents

Section 1001 of Title 18 of the United States Code provides that fines and terms of imprisonment may be imposed upon:

[W]hoever, in any matter within the jurisdiction of the executive, legislative, or judicial branch of the Government of the United States, knowingly and willfully--

- (1) falsifies, conceals, or covers up by any trick, scheme, or device a material fact;
- (2) makes any materially false, fictitious, or fraudulent statement or representation; or
- (3) makes or uses any false writing or document knowing the same to contain any materially false, fictitious, or fraudulent statement or entry.

Section 1519 of Title 18 of the United States Code provides that fines and terms of imprisonment may be imposed upon:

Whoever knowingly alters, destroys, mutilates, conceals, covers up, falsifies, or makes a false entry in any record, document, or tangible object with the intent to impede, obstruct, or influence the investigation or proper administration of any matter within the jurisdiction of any department or agency of the United States . . ., or in relation to or contemplation of any such matter.

B. Testimony

If your testimony is taken, you should be aware of the following:

- 1. Record. Your testimony will be transcribed by a reporter. If you desire to go off the record, please indicate this to the Commission employee taking your testimony, who will determine whether to grant your request. The reporter will not go off the record at your, or your counsel's, direction.
- 2. Counsel. You have the right to be accompanied, represented and advised by counsel of your choice. Your counsel may advise you before, during and after your testimony; question you briefly at the conclusion of your testimony to clarify any of the answers you give during testimony; and make summary notes during your testimony solely for your use. If you are accompanied by counsel, you may consult privately.

If you are not accompanied by counsel, please advise the Commission employee taking your testimony if, during the testimony, you desire to be accompanied, represented and advised by counsel. Your testimony will be adjourned once to afford you the opportunity to arrange to be so accompanied, represented or advised.

You may be represented by counsel who also represents other persons involved in the Commission's investigation. This multiple representation, however, presents a potential conflict of interest if one client's interests are or may be adverse to another's. If you are represented by counsel who also represents other persons involved in the investigation, the Commission will assume that you and counsel have discussed and resolved all issues concerning possible conflicts of interest. The choice of counsel, and the responsibility for that choice, is yours.

3. Transcript Availability. Rule 6 of the Commission's Rules Relating to Investigations, 17 CFR 203.6, states:

A person who has submitted documentary evidence or testimony in a formal investigative proceeding shall be entitled, upon written request, to procure a copy of his documentary evidence or a transcript of his testimony on payment of the appropriate fees: *Provided, however*, That in a nonpublic formal investigative proceeding the Commission may for good cause deny such request. In any event, any witness, upon proper identification, shall have the right to inspect the official transcript of the witness' own testimony.

If you wish to purchase a copy of the transcript of your testimony, the reporter will provide you with a copy of the appropriate form. Persons requested to supply information voluntarily will be allowed the rights provided by this rule.

4. *Perjury.* Section 1621 of Title 18 of the United States Code provides that fines and terms of imprisonment may be imposed upon:

Whoever--

(1) having taken an oath before a competent tribunal, officer, or person, in any case in which a law of the United States authorizes an oath to be administered, that he will testify, declare,

depose, or certify truly, or that any written testimony, declaration, deposition, or certificate by him subscribed, is true, willfully and contrary to such oath states or subscribes any material matter which he does not believe to be true; or

- (2) in any declaration, certificate, verification, or statement under penalty of perjury as permitted under section 1746 of title 28, United States Code, willfully subscribes as true any material matter which he does not believe to be true.
- 5. Fifth Amendment and Voluntary Testimony. Information you give may be used against you in any federal, state, local or foreign administrative, civil or criminal proceeding brought by the Commission or any other agency.

You may refuse, in accordance with the rights guaranteed to you by the Fifth Amendment to the Constitution of the United States, to give any information that may tend to incriminate you.

If your testimony is not pursuant to subpoena, your appearance to testify is voluntary, you need not answer any question, and you may leave whenever you wish. Your cooperation is, however, appreciated.

6. Formal Order Availability. If the Commission has issued a formal order of investigation, it will be shown to you during your testimony, at your request. If you desire a copy of the formal order, please make your request in writing.

C. Submissions and Settlements

Rule 5(c) of the Commission's Rules on Informal and Other Procedures, 17 CFR 202.5(c), states:

Persons who become involved in . . . investigations may, on their own initiative, submit a written statement to the Commission setting forth their interests and position in regard to the subject matter of the investigation. Upon request, the staff, in its discretion, may advise such persons of the general nature of the investigation, including the indicated violations as they pertain to them, and the amount of time that may be available for preparing and submitting a statement prior to the presentation of a staff recommendation to the Commission for the commencement of an administrative or injunction proceeding. Submissions by interested persons should be forwarded to the appropriate Division Director or Regional Director with a copy to the staff members conducting the investigation and should be clearly referenced to the specific investigation to which they relate. In the event a recommendation for the commencement of an enforcement proceeding is presented by the staff, any submissions by interested persons will be forwarded to the Commission in conjunction with the staff memorandum.

The staff of the Commission routinely seeks to introduce submissions made pursuant to Rule 5(c) as evidence in Commission enforcement proceedings, when the staff deems appropriate.

Rule 5(f) of the Commission's Rules on Informal and Other Procedures, 17 CFR 202.5(f), states:

In the course of the Commission's investigations, civil lawsuits, and administrative proceedings, the staff, with appropriate authorization, may discuss with persons involved the disposition of such matters by consent, by settlement, or in some other manner. It is the policy of the Commission, however, that the disposition of any such matter may not, expressly or impliedly, extend to any criminal charges that have been, or may be, brought against any such person or any recommendation with respect thereto. Accordingly, any person involved in an enforcement matter before the Commission who consents, or agrees to consent, to any judgment or order does so solely for the purpose of resolving the claims against him in that investigative, civil, or administrative matter and not for the purpose of resolving any criminal charges that have been, or might be, brought against him. This policy reflects the fact that neither the Commission nor its staff has the authority or responsibility for instituting, conducting, settling, or otherwise disposing of criminal proceedings. That authority and responsibility are vested in the Attorney General and representatives of the Department of Justice.

D. Freedom of Information Act

The Freedom of Information Act, 5 U.S.C. 552 (the "FOIA"), generally provides for disclosure of information to the public. Rule 83 of the Commission's Rules on Information and Requests, 17 CFR 200.83, provides a procedure by which a person can make a written request that information submitted to the Commission not be disclosed under the FOIA. That rule states that no determination as to the validity of such a request will be made until a request for disclosure of the information under the FOIA is received. Accordingly, no response to a request that information not be disclosed under the FOIA is necessary or will be given until a request for disclosure under the FOIA is received. If you desire an acknowledgment of receipt of your written request that information not be disclosed under the FOIA, please provide a duplicate request, together with a stamped, self-addressed envelope.

E. Authority for Solicitation of Information

Persons Directed to Supply Information Pursuant to Subpoena. The authority for requiring production of information is set forth in the subpoena. Disclosure of the information to the Commission is mandatory, subject to the valid assertion of any legal right or privilege you might have.

Persons Requested to Supply Information Voluntarily. One or more of the following provisions authorizes the Commission to solicit the information requested: Sections 19 and/or 20 of the Securities Act of 1933; Section 21 of the Securities Exchange Act of 1934; Section 321 of the Trust Indenture Act of 1939; Section 42 of the Investment Company Act of 1940; Section 209 of the Investment Advisers Act of 1940; and 17 CFR 202.5. Disclosure of the requested information to the Commission is voluntary on your part.

F. Effect of Not Supplying Information

Persons Directed to Supply Information Pursuant to Subpoena. If you fail to comply with the subpoena, the Commission may seek a court order requiring you to do so. If such an order is obtained and you thereafter fail to supply the information, you may be subject to civil and/or criminal sanctions for contempt of court. In addition, Section 21(c) of the Securities Exchange Act of 1934, Section 42(c) of the Investment Company Act of 1940, and Section 209(c) of the Investment Advisers Act of 1940 provide that fines and terms of imprisonment may be imposed upon any person who shall, without just cause, fail or refuse to attend and testify or to answer any lawful inquiry, or to produce books, papers, correspondence, memoranda, and other records in compliance with the subpoena.

Persons Requested to Supply Information Voluntarily. There are no direct sanctions and thus no direct effects for failing to provide all or any part of the requested information.

G. Principal Uses of Information

The Commission's principal purpose in soliciting the information is to gather facts in order to determine whether any person has violated, is violating, or is about to violate any provision of the federal securities laws or rules for which the Commission has enforcement authority, such as rules of securities exchanges and the rules of the Municipal Securities Rulemaking Board. Facts developed may, however, constitute violations of other laws or rules. Information provided may be used in Commission and other agency enforcement proceedings. Unless the Commission or its staff explicitly agrees to the contrary in writing, you should not assume that the Commission or its staff acquiesces in, accedes to, or concurs or agrees with, any position, condition, request, reservation of right, understanding, or any other statement that purports, or may be deemed, to be or to reflect a limitation upon the Commission's receipt, use, disposition, transfer, or retention, in accordance with applicable law, of information provided.

H. Routine Uses of Information

The Commission often makes its files available to other governmental agencies, particularly United States Attorneys and state prosecutors. There is a likelihood that information supplied by you will be made available to such agencies where appropriate. Whether or not the Commission makes its files available to other governmental agencies is, in general, a confidential matter between the Commission and such other governmental agencies.

Set forth below is a list of the routine uses which may be made of the information furnished.

- 1. To appropriate agencies, entities, and persons when (1) the SEC suspects or has confirmed that there has been a breach of the system of records, (2) the SEC has determined that as a result of the suspected or confirmed breach there is a risk of harm to individuals, the SEC (including its information systems, programs, and operations), the Federal Government, or national security; and (3) the disclosure made to such agencies, entities, and persons is reasonably necessary to assist in connection with the SEC's efforts to respond to the suspected or confirmed breach or to prevent, minimize, or remedy such harm.
- 2. To other Federal, state, local, or foreign law enforcement agencies; securities self-regulatory organizations; and foreign financial regulatory authorities to assist in or coordinate regulatory or law enforcement activities with the SEC.
- 3. To national securities exchanges and national securities associations that are registered with the SEC, the Municipal Securities Rulemaking Board; the Securities Investor Protection Corporation; the Public Company Accounting Oversight Board; the Federal banking authorities, including, but not limited to, the Board of Governors of the Federal Reserve System, the Comptroller of the Currency, and the Federal Deposit Insurance Corporation; state securities regulatory agencies or organizations; or regulatory authorities of a foreign government in connection with their regulatory or enforcement responsibilities.
- 4. By SEC personnel for purposes of investigating possible violations of, or to conduct investigations authorized by, the Federal securities laws.
- 5. In any proceeding where the Federal securities laws are in issue or in which the Commission, or past or present members of its staff, is a party or otherwise involved in an official capacity.
- 6. In connection with proceedings by the Commission pursuant to Rule 102(e) of its Rules of Practice, 17 CFR 201.102(e).

- 7. To a bar association, state accountancy board, or other Federal, state, local, or foreign licensing or oversight authority; or professional association or self-regulatory authority to the extent that it performs similar functions (including the Public Company Accounting Oversight Board) for investigations or possible disciplinary action.
- 8. To a Federal, state, local, tribal, foreign, or international agency, if necessary to obtain information relevant to the SEC's decision concerning the hiring or retention of an employee; the issuance of a security clearance; the letting of a contract; or the issuance of a license, grant, or other benefit.
- 9. To a Federal, state, local, tribal, foreign, or international agency in response to its request for information concerning the hiring or retention of an employee; the issuance of a security clearance; the reporting of an investigation of an employee; the letting of a contract; or the issuance of a license, grant, or other benefit by the requesting agency, to the extent that the information is relevant and necessary to the requesting agency's decision on the matter.
- 10. To produce summary descriptive statistics and analytical studies, as a data source for management information, in support of the function for which the records are collected and maintained or for related personnel management functions or manpower studies; may also be used to respond to general requests for statistical information (without personal identification of individuals) under the Freedom of Information Act.
- 11. To any trustee, receiver, master, special counsel, or other individual or entity that is appointed by a court of competent jurisdiction, or as a result of an agreement between the parties in connection with litigation or administrative proceedings involving allegations of violations of the Federal securities laws (as defined in section 3(a)(47) of the Securities Exchange Act of 1934, 15 U.S.C. 78c(a)(47)) or pursuant to the Commission's Rules of Practice, 17 CFR 201.100 through 900 or the Commission's Rules of Fair Fund and Disgorgement Plans, 17 CFR 201.1100 through 1106, or otherwise, where such trustee, receiver, master, special counsel, or other individual or entity is specifically designated to perform particular functions with respect to, or as a result of, the pending action or proceeding or in connection with the administration and enforcement by the Commission of the Federal securities laws or the Commission's Rules of Practice or the Rules of Fair Fund and Disgorgement Plans.
- 12. To any persons during the course of any inquiry, examination, or investigation conducted by the SEC's staff, or in connection with civil litigation, if the staff has reason to believe that the person to whom the record is disclosed may have further information about the matters related therein, and those matters appeared to be relevant at the time to the subject matter of the inquiry.
- 13. To interns, grantees, experts, contractors, and others who have been engaged by the Commission to assist in the performance of a service related to this system of records and who need access to the records for the purpose of assisting the Commission in the efficient administration of its programs, including by performing clerical, stenographic, or data analysis functions, or by reproduction of records by electronic or other means. Recipients of these records shall be required to comply with the requirements of the Privacy Act of 1974, as amended, 5 U.S.C. 552a.
- 14. In reports published by the Commission pursuant to authority granted in the Federal securities laws (as such term is defined in section 3(a)(47) of the Securities Exchange Act of 1934, 15 U.S.C. 78c(a)(47)), which authority shall include, but not be limited to, section 21(a) of the Securities Exchange Act of 1934, 15 U.S.C. 78u(a)).
- 15. To members of advisory committees that are created by the Commission or by Congress to render advice and recommendations to the Commission or to Congress, to be used solely in connection with their official designated functions.
- 16. To any person who is or has agreed to be subject to the Commission's Rules of Conduct, 17 CFR 200.735-1 through 200.735-18, and who assists in the investigation by the Commission of possible violations of the Federal securities laws (as such term is defined in section 3(a)(47) of the Securities Exchange Act of 1934, 15 U.S.C. 78c(a)(47)), in the preparation or conduct of enforcement actions brought by the Commission for such violations, or otherwise in connection with the Commission's enforcement or regulatory functions under the Federal securities laws.
- 17. To a Congressional office from the record of an individual in response to an inquiry from the Congressional office made at the request of that individual.
- 18. To members of Congress, the press, and the public in response to inquiries relating to particular Registrants and their activities, and other matters under the Commission's jurisdiction.
- 19. To prepare and publish information relating to violations of the Federal securities laws as provided in 15 U.S.C. 78c(a)(47)), as amended.
- 20. To respond to subpoenas in any litigation or other proceeding.
- 21. To a trustee in bankruptcy.
- 22. To any governmental agency, governmental or private collection agent, consumer reporting agency or commercial reporting agency, governmental or private employer of a debtor, or any other person, for collection,

including collection by administrative offset, Federal salary offset, tax refund offset, or administrative wage garnishment, of amounts owed as a result of Commission civil or administrative proceedings.

23. To another Federal agency or Federal entity, when the SEC determines that information from this system of records is reasonably necessary to assist the recipient agency or entity in (1) responding to a suspected or confirmed breach or (2) preventing, minimizing, or remedying the risk of harm to individuals, the recipient agency or entity (including its information systems, programs, and operations), the Federal Government, or national security, resulting from a suspected or confirmed breach.

* * * * *

Small Business Owners: The SEC always welcomes comments on how it can better assist small businesses. If you would like more information, or have questions or comments about federal securities regulations as they affect small businesses, please contact the Office of Small Business Policy, in the SEC's Division of Corporation Finance, at 202-551-3460. If you would prefer to comment to someone outside of the SEC, you can contact the Small Business Regulatory Enforcement Ombudsman at http://www.sba.gov/ombudsman or toll free at 888-REG-FAIR. The Ombudsman's office receives comments from small businesses and annually evaluates federal agency enforcement activities for their responsiveness to the special needs of small business.



U.S. Securities and Exchange Commission

Data Delivery Standards

This document describes the technical requirements for paper and electronic document productions to the U.S. Securities and Exchange Commission (SEC). **Any questions or proposed file formats other than those described below must be discussed with the legal and technical staff of the SEC Division of Enforcement prior to submission.**

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General Instructions

The current mailing address for all physical productions sent to the SEC is:

ENF-CPU (U.S. Securities & Exchange Commission), 14420 Albemarle Point Place, Suite 102, Chantilly, VA 20151-1750

Electronic files must be produced in their native format, i.e. the format in which they are ordinarily used and maintained during the normal course of business. For example, an MS Excel file must be produced as an MS Excel file rather than an image of a spreadsheet. (Note: An Adobe PDF file is not considered a native file unless the document was initially created as a PDF.)

In the event produced files require the use of proprietary software not commonly found in the workplace, the SEC will explore other format options with the producing party.

The proposed use of file de-duplication methodologies or computer-assisted review or technology-assisted review (TAR) during the processing of documents must be discussed with and approved by the legal and technical staff of the Division of Enforcement (ENF). If your production will be de-duplicated it is vital that you 1) preserve any unique metadata associated with the duplicate files, for example, custodian name and file location and, 2) make that unique metadata part of your production to the SEC.

General requirements for ALL document productions are:

- 1. A cover letter must be included with each production and should include the following information:
 - a. Case number, case name and requesting SEC staff member name
 - b. A list of each piece of media included in the production with its unique production volume number
 - c. A list of custodians, identifying the Bates range for each custodian
 - d. A list of redacted documents and the redaction reason
 - e. The time zone in which the emails were standardized during conversion
 - f. Whether the production contains native files produced from Mac operating system environments
- 2. Data can be produced on CD, DVD, thumb drive, etc., using the media requiring the least number of deliverables and labeled with the following:
 - a. Case number
 - b. Production date
 - c. Producing party
 - d. Bates range (if applicable)
- All submissions must be organized by custodian unless otherwise instructed.
- 4. All document family groups, i.e. email attachments, embedded files, etc., should be produced together and children files should follow parent files sequentially in the Bates numbering.
- 5. All load-ready collections should include only one data load file and one image pointer file.
- All load-ready text must be produced as separate document-level text files.
- 7. All load-ready collections should account for custodians in the custodian field.
- All load-ready collections must provide the extracted contents of any container files to ensure all relevant files are produced as separate records.
- 9. Audio files should be separated from data files if both are included in the production.
- Only alphanumeric characters and the underscore character are permitted in file names and folder names. Special characters
 are not permitted.
- 11. All electronic productions submitted on media must be produced using industry standard self-extracting encryption software.
- 12. The SEC uses 7zip to access compressed files. Note that the SEC **cannot** accept files that use AES-256 Jpeg or pkAES-256-Cert Deflate compression methods, even if the files are created with 7zip. If you have any questions or need additional information, please reach out to the requesting SEC staff member.
- 13. Electronic productions of 20 GB or less are strongly encouraged to be submitted via Secure File Transfer. All Secure File Transfers should be sent to the SEC Centralized Production Unit (ENF-CPU@sec.gov) with a CC to the requesting SEC staff member. If you do not have your own Secure File Transfer application, you may reach out to the requesting SEC staff member for a link to the SEC system in order to upload your production. If using the SEC Secure File Transfer system, you will NOT be able to CC individuals outside the SEC on your upload transmission. Note that the SEC cannot accept productions made using file sharing sites such as Google Drive, Microsoft Office 365 or Dropbox.
- 14. Productions containing BSA or SAR material must be encrypted. Secure File Transfer applications may be used to produce BSA or SAR material. BSA or SAR material should be segregated and appropriately marked as BSA or SAR, or should be produced separately from other case related records.
- 15. Passwords for electronic documents, files, compressed archives and encrypted media must be provided separately either via email or in a cover letter apart from the media.
- 16. All electronic productions should be produced free of computer viruses.
- Before producing forensically collected images, parties should reach out to the requesting SEC staff member in order to discuss appropriate handling.
- 18. Before producing unique data sets (large sets of relational data, website reconstruction, chat room data, etc.), parties should reach out to the requesting SEC staff member in order to discuss an appropriate production format.
- Additional technical descriptions can be found in the addendum to this document.

Please note that productions sent to the SEC via United States Postal Service are subject to Mail Irradiation, and as a result electronic productions may be damaged.

Delivery Formats

Imaged Productions

The SEC prefers that all scanned paper and electronic file collections be produced in a structured format including industry standard load files, Bates numbered image files, native files and searchable document-level text files. Bates numbers should not contain spaces. Hyphens (-) and underscores () are acceptable.

1. Images

- a. Black and white images must be 300 DPI Group IV single-page TIFF files
- b. Color images must be produced in JPEG format
- c. File names cannot contain embedded spaces or special characters (including the comma)
- d. Folder names cannot contain embedded spaces or special characters (including the comma)
- c. All image files must have a unique file name, i.e. Bates number
- f. Images must be endorsed with sequential Bates numbers in the lower right corner of each image
- The number of image files per folder should not exceed 2,000 files g.
- h. Excel spreadsheets should have a placeholder image named by the Bates number of the file
- AUTOCAD/photograph files should be produced as a single page JPEG file

2. Image Cross-Reference File

The image cross-reference file (.LOG or .OPT) links the images to the database records. It should be a comma-delimited file consisting of seven fields per line with a line in the cross-reference file for every image in the database with the following format:

ImageID, VolumeLabel, ImageFilePath, DocumentBreak, FolderBreak, BoxBreak, PageCount

3. Data File

The data file (.DAT) contains all of the fielded information that will be loaded into the database.

- The first line of the .DAT file must be a header row identifying the field names
- The .DAT file must use the following *Concordance*® default delimiters:

Comma ¶ ASCII character (020)

Quote b ASCII character (254)

- c. If the .DAT file is produced in Unicode format it must contain the byte order marker
- d. Date fields should be provided in the format: mm/dd/yyyy
- e. Date and time fields must be two separate fields
- ſ. The time zone must be included in all time fields
- If the production includes imaged emails and attachments, the attachment fields must be included to preserve the parent/child relationship between an email and its attachments
- An OCRPATH field must be included to provide the file path and name of the extracted text file on the produced storage media. The text file must be named after the FIRSTBATES. Do not include the text in the .DAT file.
- For productions with native files, a LINK field must be included to provide the file path and name of the native file on the produced storage media. The native file must be named after the FIRSTBATES.
- BEGATTACH and ENDATTACH fields must be two separate fields
- A complete list of metadata fields is available in Addendum A to this document

4. Text

Text must be produced as separate document-level text files, not as fields within the .DAT file. The text files must be named per the FIRSTBATES/Image Key and the full path to the text file (OCRPATH) should be included in the .DAT file. Text files may be in either ANSI or Unicode format, however, ALL text files must be in the same format within the same production. Note that productions containing text with foreign characters must produce text files in Unicode format to preserve the foreign characters. Text files must be in a separate folder, and the number of text files per folder should not exceed 2,000 files. There should be no special characters (including commas) in the folder names. For redacted documents, provide the full text for the redacted version.

Linked Native Files

Copies of original email and native file documents/attachments must be included for all electronic productions.

- a. Native file documents must be named per the FIRSTBATES number
- b. The full path of the native file must be provided in the .DAT file for the LINK field
- The number of native files per folder should not exceed 2,000 files

11. Native File Production without Load Files

With prior approval, native files may be produced without load files. Native file productions should not be Bates numbered. Native files must be produced as they are maintained in the normal course of business and organized by custodian-named file folders. Native email files (.PST or .MBOX) must be separated by custodian.

III. Adobe PDF File Production

With prior approval, Adobe PDF files may be produced in native file format.

- 1. All PDFs must be unitized at the document level, i.e., each PDF must represent a discrete document.
- 2. PDF files should be produced in separate folders named by the custodian. The folders should not contain any special characters (including commas).
- 3. All PDF files must contain embedded text that includes all discernible words within the document, not selected text or image only. This requires all layers of the PDF to be flattened first.
- 4. If PDF files are Bates endorsed, the PDF files must be named by the Bates range.

IV. Audio Files

Audio files from telephone recording systems must be produced in a format that is playable using Microsoft Windows Media PlayerTM. Additionally, the call information (metadata) related to each audio recording MUST be provided. The metadata file must be produced in a delimited text format. Field names must be included in the first row of the text file. The metadata must include, at a minimum, the following fields:

1) Caller Name: Caller's name or account/identification number

2) Originating Number: Caller's phone number3) Called Party Name: Called party's name

4) Terminating Number: Called party's phone number

5) Date: Date of call
6) Time: Time of call

7) Filename: Filename of audio file

V. Video Files

Video files must be produced in a format that is playable using Microsoft Windows Media Player™.

VI. Electronic Trade and Bank Records

When producing electronic trade records, bank records, or financial statements, provide the files in one of the following formats:

- 1. MS Excel spreadsheet with header information detailing the field structure. If any special codes exist in the dataset, a separate document must be provided that details all such codes. If details of the field structure do not fit in the header, a separate document must be provided that includes such details.
- 2. Delimited text file with header information detailing the field structure. The preferred delimiter is a vertical bar "|". If any special codes exist in the dataset, a separate document must be provided that details all such codes. If details of the field structure do not fit in the header, a separate document must be provided that includes such details.

VII. Electronic Phone Records

When producing an MS Excel spreadsheet for electronic phone records, provide the files in the following format:

- 1. MS Excel spreadsheet with header information detailing the field structure. If any special codes exist in the dataset, a separate document must be provided that details all such codes. If details of the field structure do not fit in the header, a separate document must be provided that includes such details. Data must be formatted in its native format (i.e. dates in a date format, numbers in an appropriate numerical format, and numbers with leading zeroes as text).
 - a. The metadata that must be included is outlined in **Addendum B** of this document. Each field of data must be loaded into a separate column. For example, Date and Start_Time must be produced in separate columns and not combined into a single column containing both pieces of information. Any fields of data that are provided in addition to those listed in **Addendum B** must also be loaded into separate columns.

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Data Delivery Standards

VIII. Audit Workpapers

The SEC prefers for workpapers to be produced in two formats: (1) With Bates numbers in accordance with the SEC Data Delivery Standards; and (2) in native format or if proprietary software was used, on a standalone laptop with the appropriate software loaded so that the workpapers may be reviewed as they would have been maintained in the ordinary course of business. The laptop must have printing capability, and when possible, the laptop should be configured to enable a Virtual Machine (VM) environment.

IX. Mobile Device Data

Before producing any mobile device data (including but not limited to text messages and application data) parties should reach out to the requesting SEC staff member in order to discuss the appropriate production format.

ADDENDUM A

The metadata of electronic document collections should be extracted and provided in a .DAT file using the field definition and formatting described below:

Field Name	Sample Data	Description	
FIRSTBATES	EDC0000001	First Bates number of native file document/email	
LASTBATES	EDC0000001	Last Bates number of native file document/email	
		**The LASTBATES field should be populated	
		for single page documents/emails.	
ATTACHRANGE	EDC0000001 - EDC0000015	Bates number of the first page of the parent	
		document to the Bates number of the last page of the	
		last attachment "child" document	
BEGATTACH	EDC0000001	First Bates number of attachment range	
ENDATTACH	EDC0000015	Last Bates number of attachment range	
PARENT_BATES	EDC0000001	First Bates number of parent document/Email **This PARENT BATES field should be populated in each record representing an attachment "child" document	
CHILD BATES	EDC0000002; EDC0000014	First Bates number of "child" attachment(s); can be	
_	·	more than one Bates number listed depending on the	
		number of attachments	
		**The CHILD BATES field should be populated in	
		each record representing a "parent" document	
CUSTODIAN	Smith, John	Email: Mailbox where the email resided	
		Native: Name of the individual or department from	
		whose files the document originated	
FROM	John Smith	Email: Sender	
		Native: Author(s) of document	
		**semi-colon should be used to separate multiple	
то	Coffee lesion Law	entries	
10	Coffman, Janice; LeeW [mailto:LeeW@MSN.com]	Recipient(s) **scmi-colon should be used to separate multiple	
	[manto. Lee w (tg. visiv. com]	entries	
CC	Frank Thompson [mailto:	Carbon copy recipient(s)	
	frank Thompson@cdt.com	**semi-colon should be used to separate multiple	
	Tunk Thompson@edeecom	entries	
BCC	John Cain	Blind carbon copy recipient(s)	
	voiii ouiii	**scmi-colon should be used to separate multiple	
		entries	
SUBJECT	Board Meeting Minutes	Email: Subject line of the email	
		Native: Title of document (if available)	
FILE_NAME	BoardMeetingMinutes.docx	Native: Name of the original native file, including	
		extension	
DATE_SENT	10/12/2010	Email: Date the email was sent	
		Native: (empty)	
TIME_SENT/TIME	07:05 PM GMT	Email: Time the email was sent/ Time zone in which	
_ZONE		the emails were standardized during conversion.	
		Native: (empty)	
		**This data must be a separate field and cannot be	
	CART	combined with the DATE_SENT field	
TIME_ZONE	GMT	The time zone in which the emails were standardized	
		during conversion.	
		Email: Time zone Native: (empty)	
		(vacive, (empty)	

LINK	D:\001\EDC0000001.msg	Hyperlink to the email or native file document **The linked file must be named per the FIRSTBATES number							
MIME_TYPE	application/msword	The content type of an email or native file document as identified/extracted from the header							
FILE_EXTEN	MSG	The file type extension representing the email or native file document; will vary depending on the format							
AUTHOR	John Smith	Email: (cmpty) Native: Author of the document							
LAST_AUTHOR	Jane Doc	Email: (empty) Native: Last Author of the document							
DATE_CREATED	10/10/2010	Email: (cmpty) Native: Date the document was created							
TIME_CREATED/T IME_ZONE	10:25 AM GMT	Email: (empty) Native: Time the document was created including time zone **This data must be a separate field and cannot be combined with the DATE_CREATED field							
DATE_MOD	10/12/2010	Email: (cmpty) Native: Date the document was last modified							
TIME_MOD/TIME_ ZONE	07:00 PM GMT	Email: (cmpty) Native: Time the document was last modified including the time zone **This data must be a separate field and cannot be combined with the DATE MOD field							
DATE_ACCESSD	10/12/2010	Email: (empty) Native: Date the document was last accessed							
TIME_ACCESSD/T IME_ZONE	07:00 PM GMT	Email: (empty) Native: Time the document was last accessed including the time zone **This data must be a separate field and cannot be combined with the DATE_ACCESSD field							
PRINTED_DATE	10/12/2010	Email: (cmpty) Native: Date the document was last printed							
FILE SIZE	5,952	Size of native file document/email in KB							
PGCOUNT	1	Number of pages in native file document/email							
РАТН	J:\Shared\SmithJ\October Agenda.doc	Email: (empty) Native: Path where native file document was stored including original file name.							
INTFILEPATH	Personal Folders\Deleted Items\Board Meeting Minutes.msg	Email: original location of email including original file name. Native: (empty)							
INTMSGID	<000805c2c71b\$75977050\$cb 8306d1@MSN>	Email: Unique Message ID Native: (empty)							

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HEADER	Return-Path: <example_from@dc.edu> X-SpamCatcher-Score:1[X] Reccived:from[136.167.40.119] (HELO dc.edu) by fe3.dc.edu (CommuniGate Pro SMTP4.1.8) with ESMTP-TLS id 61258719 for example_to@mail.dc.edu; Mon, 23 Aug 2004 11:40:10 - 0400 Message-ID: <4129F3CA.2020509@dc.edu> Date: Mon, 23 Aug 2005 11:40:36 -400 From: Taylor Evans <example_from@dc.edu> Uscr-Agent:Mozilla/5.0 (Windows;U; Windows NT 5.1: cn-US;rv:1.0.1) Gecko/20020823 Netscape/7.0 X-Accept-Language:en-us,en MIME-Version:1.0 To: Jon Smith <example_to@mail.dc.edu> Subject:Business Development Mccting Content-Type: text/plain;charset=us-ascii; format-flowed Content-Transfer-Encoding:7bit</example_to@mail.dc.edu></example_from@dc.edu></example_from@dc.edu>	Email: The email header information Native: (empty)
SIIA256	AD6128C5CA40164AF71A1E FC800E12D2F195CE07BB5F8 C813B0888A2DDE6A06F	SHA-256 hash value of the document.
OCRPATH	TEXT/001/EDC0000001.txt	Path to extracted text of the native file

Sample Image Cross-Reference File:

IMG0000001,,E:\001\IMG0000001.TIF,Y,,,
IMG0000002,,E:\001\IMG0000002.TIF,,,,
IMG0000003,,E:\001\IMG0000003.TIF,,,,
IMG0000004,,E:\001\IMG0000004.TIF,Y,,,
IMG0000005,,E:\001\IMG0000005.TIF,Y,,,
IMG0000006,,E:\001\IMG0000006.TIF,y,,,

ADDENDUM B

For Electronic Phone Records, include the following fields in separate columns:

For Calls:

- 1) Account Number
- 2) Connection Date Date the call was received or made
- 3) Connection Time Time call was received or made
- 4) Seizure Time Time it took for the call to be placed in seconds
- 5) Originating Number Phone that placed the call
- 6) Terminating Number Phone that received the call
- 7) Elapsed Time The length of time the call lasted, preferably in seconds
- 8) End Time The time the call ended
- 9) Number Dialed Actual number dialed
- 10) IMEI Originating Unique id to phone used to make call
- 11) IMEI Terminating Unique id to phone used to receive call
- 12) IMSI Originating Unique id to phone used to make call
- 13) IMSI Terminating- Unique id to phone used to receive call
- 14) Call Codes Identify call direction or other routing information
- 15) Time Zone Time Zone in which the call was received or placed, if applicable

For Text messages:

- 1) Account Number
- 2) Connection Date Date the text was received or made
- 3) Connection Time Time text was received or made
- 4) Originating Number Who placed the text
- 5) Terminating Number Who received the text
- 6) IMEI Originating Unique id to phone used to make text
- 7) IMEI Terminating Unique id to phone used to receive text
- 8) IMSI Originating Unique id to phone used to make text
- 9) IMSI Terminating- Unique id to phone used to receive text
- 10) Text Code Identify text direction, or other text routing information
- 11) Text Type Code Type of text message (sent SMS, MMS, or other)
- 12) Time Zone Time Zone in which the call was received or placed, if applicable

For Mobile Data Usage:

- 1) Account Number
- 2) Connection Date Date the data was received or made
- 3) Connection Time Time data was received or made
- 4) Originating number Number that used data
- 5) IMEI Originating Unique id of phone that used data
- 6) IMSI Originating Unique id of phone that used data
- 7) Data or Data codes Identify data direction, or other data routing information
- 8) Time Zone Time Zone in which the call was received or placed, if applicable

To: (b)(b); (b)(7)(C) Dethereum org (b)(b)(b); (b)(7)(C) Dethereum org (b)(b)(b)(b)(b)(c)(c)(c)(c)(c)(c)(c)(c)(c)(c)(c)(c)(c)
Subject: Subpoena from U.S. Securities and Exchange Commission
Received: 2023-12-04T20:23:03Z
2023.12.04 C-8950 SEC Subpoena to (b)(6); (b)(7)(C) pdf
Good afternoon,
Please see attached a subpoena from the U.S. Securities and Exchange Commission. If you have any questions, you can contact me or my colleague $(b)(6); (b)(7)(C)$ or $(b)(6); (b)(7)(C)$
Thank you, (b)(6); (b)(7)(C)
(b)(6); (b)(7)(C)
Division of Enforcement
100 Pearl Street, Suite 20-100
New York, NY 10004
OFFICE (b)(6); (b)(7)(C) (b)(6); sec.gov

U.S. Securities and Exchange Commission



UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Chicago Regional Office 175 West Jackson, Suite 1450 Chicago, IL 60604

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(b)(6); (b)(7)(C)	
(b)(6); (b)(7)(C)	gsec.go

December 4, 2023

VIA UPS and EMAIL	(b)(6); (b)(7)(C)	ethereum.org
(b)(6); (b)(7)(C)		

Re: Ethereum 2.0 (C-08950)

Dear (b)(6); (b)(7)(C)

The staff of the Chicago Regional Office of the United States Securities and Exchange Commission is conducting an investigation in the matter identified above. The enclosed subpoena has been issued to you as part of this investigation. The subpoena requires you to provide us documents and give sworn testimony. Please note that if you comply with the instructions for producing documents, you will not need to appear for testimony at the indicated time.

Please read the subpoena and this letter carefully. This letter answers some questions you may have about the subpoena. You should also read the enclosed SEC Form 1662. If you do not comply with this subpoena, the SEC may bring an action in Federal Court to enforce this subpoena. Failure to comply with a court order enforcing this subpoena may result in the court imposing a fine, imprisonment or both.

Producing Documents

What materials do I have to produce?

The subpoena requires you to provide us the documents described in the attachment to the subpoena. You must provide these documents by December 18, 2023. The attachment to the subpoena defines some terms (such as "document") before listing what you must provide.

You should produce each and every document in your possession, custody, or control, including any documents that are not in your immediate possession but that you have the ability to obtain. All responsive documents shall be produced as they are kept in the usual course of business, and shall be organized and labeled to correspond with the numbered paragraphs in the subpoena attachment. In that regard, documents should be produced in a unitized manner, *i.e.*, delineated with staples or paper clips to identify the document boundaries.

Documents responsive to this subpoena may be in electronic or paper form. Electronic documents such as email should be produced in accordance with the attached document entitled SEC Data Delivery Standards (the "Standards"). If you have any questions concerning the production of documents in an electronic format, please contact me as soon as possible but in any event before producing documents. All electronic documents responsive to the document subpoena, including all metadata, must also be secured and retained in their native software format and stored in a safe place. The staff may later request or require that you produce the native format.

For documents in paper format, you may send the originals, or, if you prefer, you may send copies of the originals. The Commission cannot reimburse you for the copying costs. If you are sending copies, the staff requests that you scan (rather than photocopy) hard copy documents and produce them in an electronic format consistent with the Standards. Alternatively, you may send us photocopies of the documents in paper format. If you choose to send copies, you <u>must</u> secure and retain the originals and store them in a safe place. The staff may later request or require that you produce the originals.

Whether you scan or photocopy documents, the copies must be identical to the originals, including even faint marks or print. Also, please note that if copies of a document differ in any way, they are considered separate documents and you must send each one. For example, if you have two copies of the same letter, but only one of them has handwritten notes on it, you must send both the clean copy and the one with notes.

If you do send us scanned or photocopied documents, please put an identifying notation on each page of each document to indicate that you produced it, and number the pages of all the documents submitted. (For example, if Jane Doe sends documents to the staff, she may number the pages JD-1, JD-2, JD-3, etc., in a blank corner of the documents.) Please make sure the notation and number do not conceal any writing or marking on the document. If you send us originals, please do not add any identifying notations.

In producing a photocopy of an original document that contains post-it(s), notation flag(s), or other removable markings or attachments which may conceal all or a portion of the markings contained in the original document, photocopies of the original document both with and without the relevant post-it(s), notation flag(s), or removable markings or attachments should be produced.

Do I need to send anything else?

You should enclose a list briefly describing each item you send. The list should state to which numbered paragraph(s) in the subpoena attachment each item responds. A copy of the subpoena should be included with the documents that are produced.

Passwords for documents, files, compressed archives, and encrypted media should be provided separately either via email addressed to ENF-CPU@sec.gov, or in a separate cover

letter mailed separately from the data. Password correspondence should reference case number, case name and requesting SEC staff member.

Please include a cover letter stating whether you believe you have met your obligations under the subpoena by searching carefully and thoroughly for everything called for by the subpoena, and sending it all to us. Correspondence should reference case number, case name and requesting SEC staff member.

Please also provide a narrative description describing what you did to identify and collect documents responsive to the subpoena. At a minimum, the narrative should describe:

- who searched for documents;
- who reviewed documents found to determine whether they were responsive;
- what sources were searched (e.g., computer files, CDs, DVDs, thumb drives, flash drives, online storage media, hard copy files, diaries, datebooks, planners, filing cabinets, home office, work office, voice mails, home email, webmail, work email, backup tapes or other media);
- what third parties, if any, were contacted to obtain responsive documents (e.g., phone companies for phone records, brokerage firms for brokerage records); and
- where the original electronic and hardcopy documents are maintained and by whom.

For any documents that qualify as records of regularly conducted activities under Federal Rule of Evidence 902(11), please complete a business records certification (a sample of which is enclosed) and return it with the document production.

What if I do not send everything described in the attachment to the subpoena?

The subpoena requires you to send all the materials described in it. If, for any reason including a claim of attorney-client privilege—you do not produce something called for by the subpoena, you should submit a list of what you are not producing. The list should describe each item separately, noting:

- its author(s);
- its date;
- its subject matter;
- the name of the person who has the item now, or the last person known to have it;
- the names of everyone who ever had the item or a copy of it, and the names of everyone who was told the item's contents;
- the reason you did not produce the item; and
- the specific request in the subpoena to which the document relates.

If you withhold anything on the basis of a claim of attorney-client privilege or attorney work product protection, you should identify the attorney and client involved. If you withhold anything on the basis of the work product doctrine, you should also identify the litigation in anticipation of which the document was prepared.

If documents responsive to this subpoena no longer exist because they have been lost, discarded, or otherwise destroyed, you should identify such documents and give the date on which they were lost, discarded or destroyed.

Where should I send the materials?

Please send the materials to:

ENF-CPU (U.S. Securities & Exchange Commission) 14420 ALBEMARLE POINT PL Suite 102 CHANTILLY, VA 20151-1750

For smaller electronic productions under 10MB in size, the materials may be emailed to the following email address: ENF-CPU@sec.gov with copies to (b)(6); (b)(7)(C) (c) (c)(6); (b)(7)(C) (c)(6

Testifying

Where and when do I testify?

The subpoena requires you to come to the Commission's offices at 100 Pearl Street, Suite 20-100, New York, NY 10004 at 9:30 a.m. on December 22, 2023 to testify under oath in the matter identified on the subpoena. But, as noted above, if you comply with all the directions for producing documents, we will not require you to testify at the indicated time. We may require your testimony later, however.

Other Important Information

May I have a lawyer help me respond to the subpoena?

Yes. You have the right to consult with and be represented by your own lawyer in this matter. Your lawyer may also advise and accompany you when you testify. We cannot give you legal advice.

What will the Commission do with the materials I send and/or the testimony I provide?

The enclosed SEC Form 1662 explains how we may use the information you provide to the Commission. This form also has other important information for you. Please read it carefully.

Has the Commission determined that anyone has done anything wrong?

This investigation is a non-public, fact-finding inquiry. We are trying to determine whether there have been any violations of the federal securities laws. The investigation and the

subpoena do not mean that we have concluded that you or anyone else has violated the law. Also, the investigation does not mean that we have a negative opinion of any person, entity or security.

Important Policy Concerning Settlements

Please note that, in any matter in which enforcement action is ultimately deemed to be warranted, the Division of Enforcement will not recommend any settlement to the Commission unless the party wishing to settle certifies, under penalty of perjury, that all documents responsive to Commission subpoenas and formal and informal document requests in this matter have been produced.

I have read this letter, the subpoena, and the SEC Form 1662, but I still have questions. What should I do?

If you (b)(6); (b)(7)(C)	I have any other questions, you may call me at [b)(6); (b)(7)(C) or [c)(6); (b)(7)(C) or If you are represented by a lawyer, you should have your lawyer contact me.	at
	Sincerely,	
	(b)(6); (b)(7)(C)	
	Division of Enforcement	

Enclosures: Subpoena and Attachment

SEC Data Delivery Standards

SEC Form 1662

Business Records Certification



SUBPOENA

UNITED STATES OF AMERICA SECURITIES AND EXCHANGE COMMISSION

In the Matter of Ethereum 2.0 (C-08950)

To:	(b)(6); (b)(7)(C)			
\boxtimes		CE everything specified in t Commission, at the place,		chment to this subpoena to officers of the d time specified below:
		_		on, 14420 Albemarle Point Pl, Suite aber 18, 2023, at 9:30 a.m.
\boxtimes	YOU MUST TESTIFY date and time specified		arities an	nd Exchange Commission, at the place,
	New York Regional C December 22, 2023, a		uite 20-	100, New York, NY 10004 on
	you do not comply with th	is subpoena, the SEC may l	bring an t this subp	WITH THIS SUBPOENA. action in Federal Court to enforce this poena may result in the court imposing a a.
Ву:	(b)(6); (b)(7)(C)	1	Date: _	December 4, 2023
	U.S. Securities and Excl New York Regional Of 100 Pearl Street, Suite : New York, NY 10004	fice		

I am an officer of the U.S. Securities and Exchange Commission authorized to issue subpoenas in this matter. The Securities and Exchange Commission has issued a formal order authorizing this investigation under: Section 20(a) of the Securities Act of 1933.

NOTICE TO WITNESS: If you claim a witness fee or mileage, submit this subpoena with the claim voucher

SUBPOENA ATTACHMENT FOR (b)(6); (b)(7)(C)

December 4, 2023

In the Matter of Ethereum 2.0 (C-08950)

A. Definitions

As used in this document subpoena, the words and phrases listed below shall have the following meanings:

- 1. "Relevant Period" means July 1, 2018 to the present.
- 2. The "Foundation" means the entity or business doing business under the name Ethereum Foundation, including ethereum.org and parents, subsidiaries, affiliates, predecessors, successors, officers, directors, employees, agents, general partners, limited partners, partnerships and aliases, owners, code names, or trade or business names used by any of the foregoing.
- 3. "EIP" means Ethereum Improvement Proposal.
- 4. "The Merge" or "Ethereum 2.0" means the transition by the Ethereum blockchain of its consensus mechanism from proof-of-work to proof-of-stake.
- 5. "Beacon Chain" means the original proof-of-stake blockchain that was launched in 2020 that ran alongside the original proof-of-work Ethereum blockchain.
- 6. "ETH" means Ether or the native crypto asset for the Ethereum blockchain and network.
- "Document" includes, but is not limited to, any written, printed, or typed matter including, but not limited to all drafts and copies bearing notations or marks not found in the original, letters and correspondence, interoffice communications, slips, tickets, records, worksheets, financial records, accounting documents, bookkeeping documents, memoranda, reports, manuals, telephone logs, telegrams, facsimiles, messages of any type, telephone messages, voice mails, tape recordings, notices, instructions, minutes, summaries, notes of meetings, file folder markings, and any other organizational indicia, purchase orders, information recorded by photographic process, including microfilm and microfiche, computer printouts, spreadsheets, and other electronically stored information, including but not limited to writings, drawings, graphs, charts, photographs, sound recordings, images, and other data or data compilations that are stored in any medium from which information can be retrieved, obtained, manipulated, or translated.
- 8. "Communication" means any correspondence, contact, discussion, e-mail, instant message, or any other kind of oral or written exchange or transmission of information (in the form of facts, ideas, inquiries, or otherwise), including but not limited to those made on Social Media Services, and any response thereto between two or more Persons or entities, including, without limitation, all

- telephone conversations, face-to-face meetings or conversations, internal or external discussions, or exchanges of a Document or Documents.
- 9. "Concerning" means directly or indirectly, in whole or in part, describing, constituting, evidencing, recording, evaluating, substantiating, concerning, referring to, alluding to, in connection with, commenting on, relating to, regarding, discussing, showing, analyzing or reflecting.
- 10. "Agreement" means any actual or contemplated (i) written or oral Agreement; (ii) term or provision of such Agreement; or (iii) amendment of any nature or termination of such Agreement. A request for any Agreement among or between specified parties includes a request for all Documents Concerning (i) any actual or contemplated Agreement among or between such parties, whether or not such Agreement included any other Person; (ii) the drafting or negotiation of any such Agreement; (iii) any actual or contemplated demand, request or application for any such Agreement, and any response thereto; and (iv) any actual or contemplated objection or refusal to enter into any such Agreement, and any response thereto.
- 11. "Person" means a natural person, firm, association, organization, partnership, business, trust, corporation, bank or any other private or public entity.
- 12. The term "you" and "your" means the Person or entity to whom this subpoena was issued.
- 13. To the extent necessary to bring within the scope of this subpoena any information or Documents that might otherwise be construed to be outside its scope:
 - a. the word "or" means "and/or";
 - b. the word "and" means "and/or";
 - c. the functional words "each," "every" "any" and "all" shall each be deemed to include each of the other functional words;
 - d. the masculine gender includes the female gender and the female gender includes the masculine gender; and
 - e. the singular includes the plural and the plural includes the singular.

B. <u>Instructions</u>

- 1. Unless otherwise specified, the subpoena calls for production of the original Documents and all copies and drafts of same. Documents responsive to this subpoena may be in electronic or paper form. Electronic Documents such as email should be produced in accordance with the attached document entitled SEC Data Delivery Standards. All electronic Documents responsive to the subpoena, including all metadata, should also be produced in their native software format.
- 2. For Documents in paper format, you may send the originals, or, if you prefer, you may send copies of the originals. The Commission cannot reimburse you for the copying costs. If you are sending copies, the staff requests that you scan (rather

than photocopy) hard copy Documents and produce them in an electronic format consistent with the SEC Data Delivery Standards. Alternatively, you may send us photocopies of the Documents in paper format. If you choose to send copies, you must secure and retain the originals and store them in a safe place. The staff may later request or require that you produce the originals.

- 3. Whether you scan or photocopy Documents, the copies must be identical to the originals, including even faint marks or print. Also, please note that if copies of a Document differ in any way, they are considered separate Documents and you must send each one. For example, if you have two copies of the same letter, but only one of them has handwritten notes on it, you must send both the clean copy and the one with notes.
- 4. In producing a photocopy of an original Document that contains post-it(s), notation flag(s), or other removable markings or attachments which may conceal all or a portion of the markings contained in the original Document, photocopies of the original Document both with and without the relevant post-it(s), notation flag(s), or removable markings or attachments should be produced.
- 5. Documents should be produced as they are kept in the ordinary course of business or be organized and labeled to correspond with the categories in this subpoena. In that regard, Documents should be produced in a unitized manner, *i.e.*, delineated with staples or paper clips to identify the Document boundaries.
- 6. Documents should be labeled with sequential numbering (bates-stamped).
- 7. The scope of any given request should not be limited or narrowed based on the fact that it calls for Documents that are responsive to another request.
- 8. You are not required to produce exact duplicates of any Documents that have been previously produced to the Securities and Exchange Commission staff in **connection with this matter**. If you are not producing Documents based upon a prior production, please identify the responsive Documents that were previously produced.
- 9. For any Documents that qualify as records of regularly conducted activities under Federal Rule of Evidence 902(11), please complete a business records certification (a sample of which is enclosed) and return it with the Document production.
- 10. This subpoena covers all Documents in or subject to your possession, custody or control, including all Documents that are not in your immediate possession but that you have the effective ability to obtain, that are responsive, in whole or in part, to any of the individual requests set forth below. If, for any reason including a claim of attorney-client privilege—you do not produce something called for by the subpoena, you should submit a list of what you are not producing. The list should be produced as an Excel file and describe each item separately, noting:

- its author(s); a.
- its date; b.
- its subject matter: c.
- the name of the Person who has the item now, or the last Person known to d.
- the names of everyone who ever had the item or a copy of it, and the e. names of everyone who was told the item's contents;
- the basis upon which you are not producing the responsive Document; f.
- the specific request in the subpoena to which the Document relates; g.
- the attorney(s) and the client(s) involved; and h.
- in the case of the work product doctrine, the litigation for which the i. Document was prepared in anticipation.
- If Documents responsive to this subpoena no longer exist because they have been 11. lost, discarded, or otherwise destroyed, you should identify such Documents and give the date on which they were lost, discarded or destroyed.

D. **Documents to be Immediately Preserved and Produced**

- 1. Documents and Communications Concerning the launch of the Beacon Chain, the Merge, and the website https://launchpad.ethereum.org, or any content published on the Launchpad's website.
- 2. Any organizational charts listing related entities and/or officers, directors, employees, or agents of the Foundation.
- 3. The Foundation's board meeting minutes (including drafts), agendas, and materials provided to the board or committee members provided to you Concerning the launch of the Beacon Chain; the Merge; the website https://launchpad.ethereum.org, or any content published on the Launchpad's website; or the Foundation's financial statements or financial condition.
- 4. All Documents Concerning any legal analysis of ETH issued after the Merge provided to you. Please note that the above Instructions discuss the procedures for how to handle privileged documents.
- 5. Documents sufficient to identify all investors in the Foundation (the "Investors") by name and address.
- 6. All Documents provided to, and Communications with, the Investors in connection with any offering of an interest in the ownership of the Foundation.

DECLARATION OF [Insert Name] CERTIFYING RECORDS OF REGULARLY CONDUCTED BUSINESS ACTIVITY

I, the undersigned, [insert name], pursuant to 28 U.S.C. § 1746, declare that:

- 1. I am employed by the Ethereum Foundation as [insert position] and by reason of my position am authorized and qualified to make this declaration. [if possible supply additional information as to how person is qualified to make declaration, e.g., I am custodian of records, I am familiar with the company's recordkeeping practices or systems, etc.]
- 2. I further certify that the documents [attached hereto or submitted herewith] and stamped [insert bates range] are true copies of records that were:
 - (a) made at or near the time of the occurrence of the matters set forth therein, by, or from information transmitted by, a person with knowledge of those matters;
 - (b) kept in the course of regularly conducted business activity; and
 - (c) made by the regularly conducted business activity as a regular practice.

I declare under penalty of perjury that the foregoing is true and correct. Executed on [date].

[Name]	

SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549

Supplemental Information for Persons Requested to Supply Information Voluntarily or Directed to Supply Information Pursuant to a Commission Subpoena

A. False Statements and Documents

Section 1001 of Title 18 of the United States Code provides that fines and terms of imprisonment may be imposed upon:

[W]hoever, in any matter within the jurisdiction of the executive, legislative, or judicial branch of the Government of the United States, knowingly and willfully--

- (1) falsifies, conceals, or covers up by any trick, scheme, or device a material fact;
- (2) makes any materially false, fictitious, or fraudulent statement or representation; or
- (3) makes or uses any false writing or document knowing the same to contain any materially false, fictitious, or fraudulent statement or entry.

Section 1519 of Title 18 of the United States Code provides that fines and terms of imprisonment may be imposed upon:

Whoever knowingly alters, destroys, mutilates, conceals, covers up, falsifies, or makes a false entry in any record, document, or tangible object with the intent to impede, obstruct, or influence the investigation or proper administration of any matter within the jurisdiction of any department or agency of the United States . . ., or in relation to or contemplation of any such matter.

B. Testimony

If your testimony is taken, you should be aware of the following:

- Record. Your testimony will be transcribed by a reporter. If you desire to go off the record, please indicate this to
 the Commission employee taking your testimony, who will determine whether to grant your request. The reporter
 will not go off the record at your, or your counsel's, direction.
- 2. Counsel. You have the right to be accompanied, represented and advised by counsel of your choice. Your counsel may advise you before, during and after your testimony; question you briefly at the conclusion of your testimony to clarify any of the answers you give during testimony; and make summary notes during your testimony solely for your use. If you are accompanied by counsel, you may consult privately.

If you are not accompanied by counsel, please advise the Commission employee taking your testimony if, during the testimony, you desire to be accompanied, represented and advised by counsel. Your testimony will be adjourned once to afford you the opportunity to arrange to be so accompanied, represented or advised.

You may be represented by counsel who also represents other persons involved in the Commission's investigation. This multiple representation, however, presents a potential conflict of interest if one client's interests are or may be adverse to another's. If you are represented by counsel who also represents other persons involved in the investigation, the Commission will assume that you and counsel have discussed and resolved all issues concerning possible conflicts of interest. The choice of counsel, and the responsibility for that choice, is yours.

3. Transcript Availability. Rule 6 of the Commission's Rules Relating to Investigations, 17 CFR 203.6, states:

A person who has submitted documentary evidence or testimony in a formal investigative proceeding shall be entitled, upon written request, to procure a copy of his documentary evidence or a transcript of his testimony on payment of the appropriate fees: *Provided, however*, That in a nonpublic formal investigative proceeding the Commission may for good cause deny such request. In any event, any witness, upon proper identification, shall have the right to inspect the official transcript of the witness' own testimony.

If you wish to purchase a copy of the transcript of your testimony, the reporter will provide you with a copy of the appropriate form. Persons requested to supply information voluntarily will be allowed the rights provided by this rule.

4. *Perjury.* Section 1621 of Title 18 of the United States Code provides that fines and terms of imprisonment may be imposed upon:

Whoever--

(1) having taken an oath before a competent tribunal, officer, or person, in any case in which a law of the United States authorizes an oath to be administered, that he will testify, declare,

depose, or certify truly, or that any written testimony, declaration, deposition, or certificate by him subscribed, is true, willfully and contrary to such oath states or subscribes any material matter which he does not believe to be true; or

- (2) in any declaration, certificate, verification, or statement under penalty of perjury as permitted under section 1746 of title 28, United States Code, willfully subscribes as true any material matter which he does not believe to be true.
- 5. Fifth Amendment and Voluntary Testimony. Information you give may be used against you in any federal, state, local or foreign administrative, civil or criminal proceeding brought by the Commission or any other agency.

You may refuse, in accordance with the rights guaranteed to you by the Fifth Amendment to the Constitution of the United States, to give any information that may tend to incriminate you.

If your testimony is not pursuant to subpoena, your appearance to testify is voluntary, you need not answer any question, and you may leave whenever you wish. Your cooperation is, however, appreciated.

6. Formal Order Availability. If the Commission has issued a formal order of investigation, it will be shown to you during your testimony, at your request. If you desire a copy of the formal order, please make your request in writing.

C. Submissions and Settlements

Rule 5(c) of the Commission's Rules on Informal and Other Procedures, 17 CFR 202,5(c), states:

Persons who become involved in . . . investigations may, on their own initiative, submit a written statement to the Commission setting forth their interests and position in regard to the subject matter of the investigation. Upon request, the staff, in its discretion, may advise such persons of the general nature of the investigation, including the indicated violations as they pertain to them, and the amount of time that may be available for preparing and submitting a statement prior to the presentation of a staff recommendation to the Commission for the commencement of an administrative or injunction proceeding. Submissions by interested persons should be forwarded to the appropriate Division Director or Regional Director with a copy to the staff members conducting the investigation and should be clearly referenced to the specific investigation to which they relate. In the event a recommendation for the commencement of an enforcement proceeding is presented by the staff, any submissions by interested persons will be forwarded to the Commission in conjunction with the staff memorandum.

The staff of the Commission routinely seeks to introduce submissions made pursuant to Rule 5(c) as evidence in Commission enforcement proceedings, when the staff deems appropriate.

Rule 5(f) of the Commission's Rules on Informal and Other Procedures, 17 CFR 202.5(f), states:

In the course of the Commission's investigations, civil lawsuits, and administrative proceedings, the staff, with appropriate authorization, may discuss with persons involved the disposition of such matters by consent, by settlement, or in some other manner. It is the policy of the Commission, however, that the disposition of any such matter may not, expressly or impliedly, extend to any criminal charges that have been, or may be, brought against any such person or any recommendation with respect thereto. Accordingly, any person involved in an enforcement matter before the Commission who consents, or agrees to consent, to any judgment or order does so solely for the purpose of resolving the claims against him in that investigative, civil, or administrative matter and not for the purpose of resolving any criminal charges that have been, or might be, brought against him. This policy reflects the fact that neither the Commission nor its staff has the authority or responsibility for instituting, conducting, settling, or otherwise disposing of criminal proceedings. That authority and responsibility are vested in the Attorney General and representatives of the Department of Justice.

D. Freedom of Information Act

The Freedom of Information Act, 5 U.S.C. 552 (the "FOIA"), generally provides for disclosure of information to the public. Rule 83 of the Commission's Rules on Information and Requests, 17 CFR 200.83, provides a procedure by which a person can make a written request that information submitted to the Commission not be disclosed under the FOIA. That rule states that no determination as to the validity of such a request will be made until a request for disclosure of the information under the FOIA is received. Accordingly, no response to a request that information not be disclosed under the FOIA is necessary or will be given until a request for disclosure under the FOIA is received. If you desire an acknowledgment of receipt of your written request that information not be disclosed under the FOIA, please provide a duplicate request, together with a stamped, self-addressed envelope.

E. Authority for Solicitation of Information

Persons Directed to Supply Information Pursuant to Subpoena. The authority for requiring production of information is set forth in the subpoena. Disclosure of the information to the Commission is mandatory, subject to the valid assertion of any legal right or privilege you might have.

Persons Requested to Supply Information Voluntarily. One or more of the following provisions authorizes the Commission to solicit the information requested: Sections 19 and/or 20 of the Securities Act of 1933; Section 21 of the Securities Exchange Act of 1934; Section 321 of the Trust Indenture Act of 1939; Section 42 of the Investment Company Act of 1940; Section 209 of the Investment Advisers Act of 1940; and 17 CFR 202.5. Disclosure of the requested information to the Commission is voluntary on your part.

F. Effect of Not Supplying Information

Persons Directed to Supply Information Pursuant to Subpoena. If you fail to comply with the subpoena, the Commission may seek a court order requiring you to do so. If such an order is obtained and you thereafter fail to supply the information, you may be subject to civil and/or criminal sanctions for contempt of court. In addition, Section 21(c) of the Securities Exchange Act of 1934, Section 42(c) of the Investment Company Act of 1940, and Section 209(c) of the Investment Advisers Act of 1940 provide that fines and terms of imprisonment may be imposed upon any person who shall, without just cause, fail or refuse to attend and testify or to answer any lawful inquiry, or to produce books, papers, correspondence, memoranda, and other records in compliance with the subpoena.

Persons Requested to Supply Information Voluntarily. There are no direct sanctions and thus no direct effects for failing to provide all or any part of the requested information.

G. Principal Uses of Information

The Commission's principal purpose in soliciting the information is to gather facts in order to determine whether any person has violated, is violating, or is about to violate any provision of the federal securities laws or rules for which the Commission has enforcement authority, such as rules of securities exchanges and the rules of the Municipal Securities Rulemaking Board. Facts developed may, however, constitute violations of other laws or rules. Information provided may be used in Commission and other agency enforcement proceedings. Unless the Commission or its staff explicitly agrees to the contrary in writing, you should not assume that the Commission or its staff acquiesces in, accedes to, or concurs or agrees with, any position, condition, request, reservation of right, understanding, or any other statement that purports, or may be deemed, to be or to reflect a limitation upon the Commission's receipt, use, disposition, transfer, or retention, in accordance with applicable law, of information provided.

H. Routine Uses of Information

The Commission often makes its files available to other governmental agencies, particularly United States Attorneys and state prosecutors. There is a likelihood that information supplied by you will be made available to such agencies where appropriate. Whether or not the Commission makes its files available to other governmental agencies is, in general, a confidential matter between the Commission and such other governmental agencies.

Set forth below is a list of the routine uses which may be made of the information furnished.

- 1. To appropriate agencies, entities, and persons when (1) the SEC suspects or has confirmed that there has been a breach of the system of records, (2) the SEC has determined that as a result of the suspected or confirmed breach there is a risk of harm to individuals, the SEC (including its information systems, programs, and operations), the Federal Government, or national security; and (3) the disclosure made to such agencies, entities, and persons is reasonably necessary to assist in connection with the SEC's efforts to respond to the suspected or confirmed breach or to prevent, minimize, or remedy such harm.
- 2. To other Federal, state, local, or foreign law enforcement agencies; securities self-regulatory organizations; and foreign financial regulatory authorities to assist in or coordinate regulatory or law enforcement activities with the SEC.
- 3. To national securities exchanges and national securities associations that are registered with the SEC, the Municipal Securities Rulemaking Board; the Securities Investor Protection Corporation; the Public Company Accounting Oversight Board; the Federal banking authorities, including, but not limited to, the Board of Governors of the Federal Reserve System, the Comptroller of the Currency, and the Federal Deposit Insurance Corporation; state securities regulatory agencies or organizations; or regulatory authorities of a foreign government in connection with their regulatory or enforcement responsibilities.
- 4. By SEC personnel for purposes of investigating possible violations of, or to conduct investigations authorized by, the Federal securities laws.
- 5. In any proceeding where the Federal securities laws are in issue or in which the Commission, or past or present members of its staff, is a party or otherwise involved in an official capacity.
- 6. In connection with proceedings by the Commission pursuant to Rule 102(e) of its Rules of Practice, 17 CFR 201.102(e).

- 7. To a bar association, state accountancy board, or other Federal, state, local, or foreign licensing or oversight authority; or professional association or self-regulatory authority to the extent that it performs similar functions (including the Public Company Accounting Oversight Board) for investigations or possible disciplinary action.
- 8. To a Federal, state, local, tribal, foreign, or international agency, if necessary to obtain information relevant to the SEC's decision concerning the hiring or retention of an employee; the issuance of a security clearance; the letting of a contract; or the issuance of a license, grant, or other benefit.
- 9. To a Federal, state, local, tribal, foreign, or international agency in response to its request for information concerning the hiring or retention of an employee; the issuance of a security clearance; the reporting of an investigation of an employee; the letting of a contract; or the issuance of a license, grant, or other benefit by the requesting agency, to the extent that the information is relevant and necessary to the requesting agency's decision on the matter.
- 10. To produce summary descriptive statistics and analytical studies, as a data source for management information, in support of the function for which the records are collected and maintained or for related personnel management functions or manpower studies; may also be used to respond to general requests for statistical information (without personal identification of individuals) under the Freedom of Information Act.
- 11. To any trustee, receiver, master, special counsel, or other individual or entity that is appointed by a court of competent jurisdiction, or as a result of an agreement between the parties in connection with litigation or administrative proceedings involving allegations of violations of the Federal securities laws (as defined in section 3(a)(47) of the Securities Exchange Act of 1934, 15 U.S.C. 78c(a)(47)) or pursuant to the Commission's Rules of Practice, 17 CFR 201.100 through 900 or the Commission's Rules of Fair Fund and Disgorgement Plans, 17 CFR 201.1100 through 1106, or otherwise, where such trustee, receiver, master, special counsel, or other individual or entity is specifically designated to perform particular functions with respect to, or as a result of, the pending action or proceeding or in connection with the administration and enforcement by the Commission of the Federal securities laws or the Commission's Rules of Practice or the Rules of Fair Fund and Disgorgement Plans.
- 12. To any persons during the course of any inquiry, examination, or investigation conducted by the SEC's staff, or in connection with civil litigation, if the staff has reason to believe that the person to whom the record is disclosed may have further information about the matters related therein, and those matters appeared to be relevant at the time to the subject matter of the inquiry.
- 13. To interns, grantees, experts, contractors, and others who have been engaged by the Commission to assist in the performance of a service related to this system of records and who need access to the records for the purpose of assisting the Commission in the efficient administration of its programs, including by performing clerical, stenographic, or data analysis functions, or by reproduction of records by electronic or other means. Recipients of these records shall be required to comply with the requirements of the Privacy Act of 1974, as amended, 5 U.S.C.
- 14. In reports published by the Commission pursuant to authority granted in the Federal securities laws (as such term is defined in section 3(a)(47) of the Securities Exchange Act of 1934, 15 U.S.C. 78c(a)(47)), which authority shall include, but not be limited to, section 21(a) of the Securities Exchange Act of 1934, 15 U.S.C. 78u(a)).
- 15. To members of advisory committees that are created by the Commission or by Congress to render advice and recommendations to the Commission or to Congress, to be used solely in connection with their official designated functions.
- 16. To any person who is or has agreed to be subject to the Commission's Rules of Conduct, 17 CFR 200.735-1 through 200.735-18, and who assists in the investigation by the Commission of possible violations of the Federal securities laws (as such term is defined in section 3(a)(47) of the Securities Exchange Act of 1934, 15 U.S.C. 78c(a)(47)), in the preparation or conduct of enforcement actions brought by the Commission for such violations, or otherwise in connection with the Commission's enforcement or regulatory functions under the Federal securities laws.
- 17. To a Congressional office from the record of an individual in response to an inquiry from the Congressional office made at the request of that individual.
- 18. To members of Congress, the press, and the public in response to inquiries relating to particular Registrants and their activities, and other matters under the Commission's jurisdiction.
- 19. To prepare and publish information relating to violations of the Federal securities laws as provided in 15 U.S.C. 78c(a)(47)), as amended.
- 20. To respond to subpoenas in any litigation or other proceeding.
- 21. To a trustee in bankruptcy.
- 22. To any governmental agency, governmental or private collection agent, consumer reporting agency or commercial reporting agency, governmental or private employer of a debtor, or any other person, for collection,

including collection by administrative offset, Federal salary offset, tax refund offset, or administrative wage garnishment, of amounts owed as a result of Commission civil or administrative proceedings.

23. To another Federal agency or Federal entity, when the SEC determines that information from this system of records is reasonably necessary to assist the recipient agency or entity in (1) responding to a suspected or confirmed breach or (2) preventing, minimizing, or remedying the risk of harm to individuals, the recipient agency or entity (including its information systems, programs, and operations), the Federal Government, or national security, resulting from a suspected or confirmed breach.

* * * * *

Small Business Owners: The SEC always welcomes comments on how it can better assist small businesses. If you would like more information, or have questions or comments about federal securities regulations as they affect small businesses, please contact the Office of Small Business Policy, in the SEC's Division of Corporation Finance, at 202-551-3460. If you would prefer to comment to someone outside of the SEC, you can contact the Small Business Regulatory Enforcement Ombudsman at http://www.sba.gov/ombudsman or toll free at 888-REG-FAIR. The Ombudsman's office receives comments from small businesses and annually evaluates federal agency enforcement activities for their responsiveness to the special needs of small business.



U.S. Securities and Exchange Commission

Data Delivery Standards

This document describes the technical requirements for paper and electronic document productions to the U.S. Securities and Exchange Commission (SEC). **Any questions or proposed file formats other than those described below must be discussed with the legal and technical staff of the SEC Division of Enforcement prior to submission.**

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General Instructions

The current mailing address for all physical productions sent to the SEC is:

ENF-CPU (U.S. Securities & Exchange Commission), 14420 Albemarle Point Place, Suite 102, Chantilly, VA 20151-1750

Electronic files must be produced in their native format, i.e. the format in which they are ordinarily used and maintained during the normal course of business. For example, an MS Excel file must be produced as an MS Excel file rather than an image of a spreadsheet. (Note: An Adobe PDF file is not considered a native file unless the document was initially created as a PDF.)

In the event produced files require the use of proprietary software not commonly found in the workplace, the SEC will explore other format options with the producing party.

The proposed use of file de-duplication methodologies or computer-assisted review or technology-assisted review (TAR) during the processing of documents must be discussed with and approved by the legal and technical staff of the Division of Enforcement (ENF). If your production will be de-duplicated it is vital that you 1) preserve any unique metadata associated with the duplicate files, for example, custodian name and file location and, 2) make that unique metadata part of your production to the SEC.

General requirements for ALL document productions are:

- 1. A cover letter must be included with each production and should include the following information:
 - a. Case number, case name and requesting SEC staff member name
 - b. A list of each piece of media included in the production with its unique production volume number
 - c. A list of custodians, identifying the Bates range for each custodian
 - d. A list of redacted documents and the redaction reason
 - e. The time zone in which the emails were standardized during conversion
 - f. Whether the production contains native files produced from Mac operating system environments
- 2. Data can be produced on CD, DVD, thumb drive, etc., using the media requiring the least number of deliverables and labeled with the following:
 - a. Case number
 - b. Production date
 - c. Producing party
 - d. Bates range (if applicable)
- All submissions must be organized by custodian unless otherwise instructed.
- 4. All document family groups, i.e. email attachments, embedded files, etc., should be produced together and children files should follow parent files sequentially in the Bates numbering.
- 5. All load-ready collections should include only one data load file and one image pointer file.
- 6. All load-ready text must be produced as separate document-level text files.
- 7. All load-ready collections should account for custodians in the custodian field.
- All load-ready collections must provide the extracted contents of any container files to ensure all relevant files are produced as separate records.
- 9. Audio files should be separated from data files if both are included in the production.
- Only alphanumeric characters and the underscore character are permitted in file names and folder names. Special characters
 are not permitted.
- 11. All electronic productions submitted on media must be produced using industry standard self-extracting encryption software.
- 12. The SEC uses 7zip to access compressed files. Note that the SEC **cannot** accept files that use AES-256 Jpeg or pkAES-256-Cert Deflate compression methods, even if the files are created with 7zip. If you have any questions or need additional information, please reach out to the requesting SEC staff member.
- 13. Electronic productions of 20 GB or less are strongly encouraged to be submitted via Secure File Transfer. All Secure File Transfers should be sent to the SEC Centralized Production Unit (ENF-CPU@sec.gov) with a CC to the requesting SEC staff member. If you do not have your own Secure File Transfer application, you may reach out to the requesting SEC staff member for a link to the SEC system in order to upload your production. If using the SEC Secure File Transfer system, you will NOT be able to CC individuals outside the SEC on your upload transmission. Note that the SEC cannot accept productions made using file sharing sites such as Google Drive, Microsoft Office 365 or Dropbox.
- 14. Productions containing BSA or SAR material must be encrypted. Secure File Transfer applications may be used to produce BSA or SAR material. BSA or SAR material should be segregated and appropriately marked as BSA or SAR, or should be produced separately from other case related records.
- 15. Passwords for electronic documents, files, compressed archives and encrypted media must be provided separately either via email or in a cover letter apart from the media.
- 16. All electronic productions should be produced free of computer viruses.
- 17. Before producing forensically collected images, parties should reach out to the requesting SEC staff member in order to discuss appropriate handling.
- 18. Before producing unique data sets (large sets of relational data, website reconstruction, chat room data, etc.), parties should reach out to the requesting SEC staff member in order to discuss an appropriate production format.
- Additional technical descriptions can be found in the addendum to this document.

Please note that productions sent to the SEC via United States Postal Service are subject to Mail Irradiation, and as a result electronic productions may be damaged.

Delivery Formats

Imaged Productions

The SEC prefers that all scanned paper and electronic file collections be produced in a structured format including industry standard load files, Bates numbered image files, native files and searchable document-level text files. Bates numbers should not contain spaces. Hyphens (-) and underscores () are acceptable.

1. Images

- a. Black and white images must be 300 DPI Group IV single-page TIFF files
- b. Color images must be produced in JPEG format
- c. File names cannot contain embedded spaces or special characters (including the comma)
- d. Folder names cannot contain embedded spaces or special characters (including the comma)
- c. All image files must have a unique file name, i.e. Bates number
- f. Images must be endorsed with sequential Bates numbers in the lower right corner of each image
- The number of image files per folder should not exceed 2,000 files g.
- h. Excel spreadsheets should have a placeholder image named by the Bates number of the file
- AUTOCAD/photograph files should be produced as a single page JPEG file

2. Image Cross-Reference File

The image cross-reference file (.LOG or .OPT) links the images to the database records. It should be a comma-delimited file consisting of seven fields per line with a line in the cross-reference file for every image in the database with the following format:

ImageID, VolumeLabel, ImageFilePath, DocumentBreak, FolderBreak, BoxBreak, PageCount

3. Data File

The data file (.DAT) contains all of the fielded information that will be loaded into the database.

- The first line of the .DAT file must be a header row identifying the field names
- The .DAT file must use the following *Concordance*® default delimiters:

Comma ¶ ASCII character (020)

Quote b ASCII character (254)

- c. If the .DAT file is produced in Unicode format it must contain the byte order marker
- d. Date fields should be provided in the format: mm/dd/yyyy
- e. Date and time fields must be two separate fields
- ſ. The time zone must be included in all time fields
- If the production includes imaged emails and attachments, the attachment fields must be included to preserve the parent/child relationship between an email and its attachments
- An OCRPATH field must be included to provide the file path and name of the extracted text file on the produced storage media. The text file must be named after the FIRSTBATES. Do not include the text in the .DAT file.
- For productions with native files, a LINK field must be included to provide the file path and name of the native file on the produced storage media. The native file must be named after the FIRSTBATES.
- BEGATTACH and ENDATTACH fields must be two separate fields
- A complete list of metadata fields is available in Addendum A to this document

4. Text

Text must be produced as separate document-level text files, not as fields within the .DAT file. The text files must be named per the FIRSTBATES/Image Key and the full path to the text file (OCRPATH) should be included in the .DAT file. Text files may be in either ANSI or Unicode format, however, ALL text files must be in the same format within the same production. Note that productions containing text with foreign characters must produce text files in Unicode format to preserve the foreign characters. Text files must be in a separate folder, and the number of text files per folder should not exceed 2,000 files. There should be no special characters (including commas) in the folder names. For redacted documents, provide the full text for the redacted version.

Linked Native Files

Copies of original email and native file documents/attachments must be included for all electronic productions.

- a. Native file documents must be named per the FIRSTBATES number
- b. The full path of the native file must be provided in the .DAT file for the LINK field
- The number of native files per folder should not exceed 2,000 files

11. Native File Production without Load Files

With prior approval, native files may be produced without load files. Native file productions should not be Bates numbered. Native files must be produced as they are maintained in the normal course of business and organized by custodian-named file folders. Native email files (.PST or .MBOX) must be separated by custodian.

III. Adobe PDF File Production

With prior approval, Adobe PDF files may be produced in native file format.

- 1. All PDFs must be unitized at the document level, i.e., each PDF must represent a discrete document.
- 2. PDF files should be produced in separate folders named by the custodian. The folders should not contain any special characters (including commas).
- 3. All PDF files must contain embedded text that includes all discernible words within the document, not selected text or image only. This requires all layers of the PDF to be flattened first.
- 4. If PDF files are Bates endorsed, the PDF files must be named by the Bates range.

IV. Audio Files

Audio files from telephone recording systems must be produced in a format that is playable using Microsoft Windows Media PlayerTM. Additionally, the call information (metadata) related to each audio recording MUST be provided. The metadata file must be produced in a delimited text format. Field names must be included in the first row of the text file. The metadata must include, at a minimum, the following fields:

1) Caller Name: Caller's name or account/identification number

2) Originating Number: Caller's phone number3) Called Party Name: Called party's name

4) Terminating Number: Called party's phone number

5) Date: Date of call 6) Time: Time of call

7) Filename: Filename of audio file

V. Video Files

Video files must be produced in a format that is playable using Microsoft Windows Media Player™.

VI. Electronic Trade and Bank Records

When producing electronic trade records, bank records, or financial statements, provide the files in one of the following formats:

- 1. MS Excel spreadsheet with header information detailing the field structure. If any special codes exist in the dataset, a separate document must be provided that details all such codes. If details of the field structure do not fit in the header, a separate document must be provided that includes such details.
- 2. Delimited text file with header information detailing the field structure. The preferred delimiter is a vertical bar "|". If any special codes exist in the dataset, a separate document must be provided that details all such codes. If details of the field structure do not fit in the header, a separate document must be provided that includes such details.

VII. Electronic Phone Records

When producing an MS Excel spreadsheet for electronic phone records, provide the files in the following format:

- 1. MS Excel spreadsheet with header information detailing the field structure. If any special codes exist in the dataset, a separate document must be provided that details all such codes. If details of the field structure do not fit in the header, a separate document must be provided that includes such details. Data must be formatted in its native format (i.e. dates in a date format, numbers in an appropriate numerical format, and numbers with leading zeroes as text).
 - a. The metadata that must be included is outlined in **Addendum B** of this document. Each field of data must be loaded into a separate column. For example, Date and Start_Time must be produced in separate columns and not combined into a single column containing both pieces of information. Any fields of data that are provided in addition to those listed in **Addendum B** must also be loaded into separate columns.

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Data Delivery Standards

VIII. Audit Workpapers

The SEC prefers for workpapers to be produced in two formats: (1) With Bates numbers in accordance with the SEC Data Delivery Standards; and (2) in native format or if proprietary software was used, on a standalone laptop with the appropriate software loaded so that the workpapers may be reviewed as they would have been maintained in the ordinary course of business. The laptop must have printing capability, and when possible, the laptop should be configured to enable a Virtual Machine (VM) environment.

IX. Mobile Device Data

Before producing any mobile device data (including but not limited to text messages and application data) parties should reach out to the requesting SEC staff member in order to discuss the appropriate production format.

ADDENDUM A

The metadata of electronic document collections should be extracted and provided in a .DAT file using the field definition and formatting described below:

Field Name	Sample Data	Description
FIRSTBATES	EDC0000001	First Bates number of native file document/email
LASTBATES	EDC0000001	Last Bates number of native file document/email
		**The LASTBATES field should be populated
		for single page documents/emails.
ATTACHRANGE	EDC0000001 - EDC0000015	Bates number of the first page of the parent
		document to the Bates number of the last page of the
		last attachment "child" document
BEGATTACH	EDC0000001	First Bates number of attachment range
ENDATTACH	EDC0000015	Last Bates number of attachment range
PARENT_BATES	EDC0000001	First Bates number of parent document/Email **This PARENT BATES field should be populated in each record representing an attachment "child" document
CHILD BATES	EDC0000002; EDC0000014	First Bates number of "child" attachment(s); can be
_		more than one Bates number listed depending on the
		number of attachments
		**The CHILD BATES field should be populated in
		each record representing a "parent" document
CUSTODIAN	Smith, John	Email: Mailbox where the email resided
		Native: Name of the individual or department from
		whose files the document originated
FROM	John Smith	Email: Sender
		Native: Author(s) of document
		**semi-colon should be used to separate multiple
		entries
TO	Coffman, Janice; LeeW	Recipient(s)
	[mailto:LeeW@MSN.com]	**semi-colon should be used to separate multiple
CC	Front Theory of Frontier	entries
CC	Frank Thompson [mailto:	Carbon copy recipient(s)
	frank Thompson@cdt.com]	**semi-colon should be used to separate multiple entries
BCC	John Cain	
BCC	John Cain	Blind carbon copy recipient(s) **scmi-colon should be used to separate multiple
		entries
SUBJECT	Board Meeting Minutes	Email: Subject line of the email
SOUTE. I	Board Weeting Windles	Native: Title of document (if available)
FILE_NAME	BoardMeetingMinutes.doex	Native: Name of the original native file, including
TICE_NAME	Boardweetingivinutes.doex	extension
DATE_SENT	10/12/2010	Email: Date the email was sent
D.111 D_DD141	10,12,2010	Native: (empty)
TIME SENT/TIME	07:05 PM GMT	Email: Time the email was sent/ Time zone in which
ZONE		the emails were standardized during conversion.
_		Native: (cmpty)
		**This data must be a separate field and cannot be
		combined with the DATE_SENT field
TIME_ZONE	GMT	The time zone in which the emails were standardized
_		during conversion.
		Email: Time zone
l		Native: (empty)

LINK	D:\001\EDC0000001.msg	Hyperlink to the email or native file document **The linked file must be named per the FIRSTBATES number	
MIME_TYPE	application/msword	The content type of an email or native file document as identified/extracted from the header	
FILE_EXTEN	MSG	The file type extension representing the email or native file document; will vary depending on the format	
AUTHOR	John Smith	Email: (empty) Native: Author of the document	
LAST_AUTHOR	Jane Doe	Email: (empty) Native: Last Author of the document	
DATE_CREATED	10/10/2010	Email: (empty) Native: Date the document was created	
TIME_CREATED/T IME_ZONE	10:25 AM GMT	Email: (empty) Native: Time the document was created including time zone **This data must be a separate field and cannot be combined with the DATE_CREATED field	
DATE_MOD	10/12/2010	Email: (empty) Native: Date the document was last modified	
TIME_MOD/TIME_ ZONE	07:00 РМ GMT	Email: (empty) Native: Time the document was last modified including the time zone **This data must be a separate field and cannot be combined with the DATE MOD field	
DATE_ACCESSD	10/12/2010	Email: (empty) Native: Date the document was last accessed	
TIME_ACCESSD/T IME_ZONE	07:00 PM GMT	Email: (cmpty) Native: Time the document was last accessed including the time zone **This data must be a separate field and cannot be combined with the DATE_ACCESSD field	
PRINTED_DATE	10/12/2010	Email: (empty) Native: Date the document was last printed	
FILE SIZE	5,952	Size of native file document/email in KB	
PGCOUNT	1	Number of pages in native file document/email	
РАТН	J:\Shared\SmithJ\October Agenda.doc	Email: (empty) Native: Path where native file document was stored including original file name.	
INTFILEPATH	Personal Folders\Deleted Items\Board Meeting Minutes.msg	Email: original location of email including original file name. Native: (empty)	
INTMSGID	<000805c2c71b\$75977050\$cb 8306d1@MSN>	Email: Unique Message ID Native: (empty)	

Case 1:24-cv-01858-ACR Document 26-1 Filed 02/04/25 Page 906 of 933 Data Delivery Standards

HEADER	Return-Path: <example_from@dc.edu> X-SpamCatcher-Score:1[X] Reccived:from[136.167.40.119] (HELO dc.edu) by fe3.dc.edu (CommuniGate Pro SMTP4.1.8) with ESMTP-TLS id 61258719 for example_to@mail.dc.edu; Mon, 23 Aug 2004 11:40:10 - 0400 Message-ID: <4129F3CA.2020509@dc.edu> Date: Mon, 23 Aug 2005 11:40:36 -400 From: Taylor Evans <example_from@dc.edu> Uscr-Agent:Mozilla/5.0 (Windows;U; Windows NT 5.1: cn-US;rv:1.0.1) Gecko/20020823 Netscape/7.0 X-Accept-Language:en-us,en MIME-Version:1.0 To: Jon Smith <example_to@mail.dc.edu> Subject:Business Development Mceting Content-Type: text/plain;charset=us-ascii; format=flowed Content-Transfer-Encoding:7bit</example_to@mail.dc.edu></example_from@dc.edu></example_from@dc.edu>	
SIIA256	AD6128C5CA40164AF71A1E FC800E12D2F195CE07BB5F8 C813B0888A2DDE6A06F	SHA-256 hash value of the document.
OCRPATH	TEXT/001/EDC0000001.txt	Path to extracted text of the native file

Sample Image Cross-Reference File:

IMG0000001,,E:\001\IMG0000001.TIF,Y,,,
IMG0000002,,E:\001\IMG0000002.TIF,,,,
IMG0000003,,E:\001\IMG0000003.TIF,,,,
IMG0000004,,E:\001\IMG0000004.TIF,Y,,,
IMG0000005,,E:\001\IMG0000005.TIF,Y,,,
IMG0000006,,E:\001\IMG0000006.TIF,,,,

ADDENDUM B

For Electronic Phone Records, include the following fields in separate columns:

For Calls:

- 1) Account Number
- 2) Connection Date Date the call was received or made
- 3) Connection Time Time call was received or made
- 4) Seizure Time Time it took for the call to be placed in seconds
- 5) Originating Number Phone that placed the call
- 6) Terminating Number Phone that received the call
- 7) Elapsed Time The length of time the call lasted, preferably in seconds
- 8) End Time The time the call ended
- 9) Number Dialed Actual number dialed
- 10) IMEI Originating Unique id to phone used to make call
- 11) IMEI Terminating Unique id to phone used to receive call
- 12) IMSI Originating Unique id to phone used to make call
- 13) IMSI Terminating- Unique id to phone used to receive call
- 14) Call Codes Identify call direction or other routing information
- 15) Time Zone Time Zone in which the call was received or placed, if applicable

For Text messages:

- 1) Account Number
- 2) Connection Date Date the text was received or made
- 3) Connection Time Time text was received or made
- 4) Originating Number Who placed the text
- 5) Terminating Number Who received the text
- 6) IMEI Originating Unique id to phone used to make text
- 7) IMEI Terminating Unique id to phone used to receive text
- 8) IMSI Originating Unique id to phone used to make text
- 9) IMSI Terminating- Unique id to phone used to receive text
- 10) Text Code Identify text direction, or other text routing information
- 11) Text Type Code Type of text message (sent SMS, MMS, or other)
- 12) Time Zone Time Zone in which the call was received or placed, if applicable

For Mobile Data Usage:

- 1) Account Number
- 2) Connection Date Date the data was received or made
- 3) Connection Time Time data was received or made
- 4) Originating number Number that used data
- 5) IMEI Originating Unique id of phone that used data
- 6) IMSI Originating Unique id of phone that used data
- 7) Data or Data codes Identify data direction, or other data routing information
- 8) Time Zone Time Zone in which the call was received or placed, if applicable

To:
Jeff,
You'll recall we last spoke in connection with the above matter in June. We wanted to let you know that we issued the attached subpoena to $(b)(6)$; $(b)(7)(C)$ earlier this week. We understand that $(b)(6)$; $(b)(7)(C)$ s a US-based employee of the Foundation. Please let us know if you will be representing $(b)(6)$; $(b)(7)(C)$ or anticipate representing any other US-based Foundation employee in connection with this matter.
Thank you,
(b)(6): (b)(7)(C) Division of Enforcement U.S. Securities and Exchange Commission 175 W. Jackson Blvd., Suite 1450
Chicago, IL 60604-2511
Direct: (b)(6); (b)(7)(C)
Email: (b)(6); vsec.gov



UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Chicago Regional Office 175 West Jackson, Suite 1450 Chicago, IL 60604

DIVISION OF ENFORCEMENT

(b)(6); (b)(7)(C	:)	
(b)(6); (b)(7)(C)	∂sec.go	v

December 4, 2023

VIA UPS and EMAII	L(b)(6); (b)(7)(C)	ethereum.org
b)(6); (b)(7)(C)		

Re: Ethereum 2.0 (C-08950)

Dear (b)(6); (b)(7)(C)	
------------------------	--

The staff of the Chicago Regional Office of the United States Securities and Exchange Commission is conducting an investigation in the matter identified above. The enclosed subpoena has been issued to you as part of this investigation. The subpoena requires you to provide us documents and give sworn testimony. Please note that if you comply with the instructions for producing documents, you will not need to appear for testimony at the indicated time.

Please read the subpoena and this letter carefully. This letter answers some questions you may have about the subpoena. You should also read the enclosed SEC Form 1662. If you do not comply with this subpoena, the SEC may bring an action in Federal Court to enforce this subpoena. Failure to comply with a court order enforcing this subpoena may result in the court imposing a fine, imprisonment or both.

Producing Documents

What materials do I have to produce?

The subpoena requires you to provide us the documents described in the attachment to the subpoena. You must provide these documents by December 18, 2023. The attachment to the subpoena defines some terms (such as "document") before listing what you must provide.

You should produce each and every document in your possession, custody, or control, including any documents that are not in your immediate possession but that you have the ability to obtain. All responsive documents shall be produced as they are kept in the usual course of business, and shall be organized and labeled to correspond with the numbered paragraphs in the subpoena attachment. In that regard, documents should be produced in a unitized manner, *i.e.*, delineated with staples or paper clips to identify the document boundaries.

Documents responsive to this subpoena may be in electronic or paper form. Electronic documents such as email should be produced in accordance with the attached document entitled SEC Data Delivery Standards (the "Standards"). If you have any questions concerning the production of documents in an electronic format, please contact me as soon as possible but in any event before producing documents. All electronic documents responsive to the document subpoena, including all metadata, must also be secured and retained in their native software format and stored in a safe place. The staff may later request or require that you produce the native format.

For documents in paper format, you may send the originals, or, if you prefer, you may send copies of the originals. The Commission cannot reimburse you for the copying costs. If you are sending copies, the staff requests that you scan (rather than photocopy) hard copy documents and produce them in an electronic format consistent with the Standards. Alternatively, you may send us photocopies of the documents in paper format. If you choose to send copies, you <u>must</u> secure and retain the originals and store them in a safe place. The staff may later request or require that you produce the originals.

Whether you scan or photocopy documents, the copies must be identical to the originals, including even faint marks or print. Also, please note that if copies of a document differ in any way, they are considered separate documents and you must send each one. For example, if you have two copies of the same letter, but only one of them has handwritten notes on it, you must send both the clean copy and the one with notes.

If you do send us scanned or photocopied documents, please put an identifying notation on each page of each document to indicate that you produced it, and number the pages of all the documents submitted. (For example, if Jane Doe sends documents to the staff, she may number the pages JD-1, JD-2, JD-3, etc., in a blank corner of the documents.) Please make sure the notation and number do not conceal any writing or marking on the document. If you send us originals, please do not add any identifying notations.

In producing a photocopy of an original document that contains post-it(s), notation flag(s), or other removable markings or attachments which may conceal all or a portion of the markings contained in the original document, photocopies of the original document both with and without the relevant post-it(s), notation flag(s), or removable markings or attachments should be produced.

Do I need to send anything else?

You should enclose a list briefly describing each item you send. The list should state to which numbered paragraph(s) in the subpoena attachment each item responds. A copy of the subpoena should be included with the documents that are produced.

Passwords for documents, files, compressed archives, and encrypted media should be provided separately either via email addressed to ENF-CPU@sec.gov, or in a separate cover

letter mailed separately from the data. Password correspondence should reference case number, case name and requesting SEC staff member.

Please include a cover letter stating whether you believe you have met your obligations under the subpoena by searching carefully and thoroughly for everything called for by the subpoena, and sending it all to us. Correspondence should reference case number, case name and requesting SEC staff member.

Please also provide a narrative description describing what you did to identify and collect documents responsive to the subpoena. At a minimum, the narrative should describe:

- who searched for documents;
- who reviewed documents found to determine whether they were responsive;
- what sources were searched (e.g., computer files, CDs, DVDs, thumb drives, flash
 drives, online storage media, hard copy files, diaries, datebooks, planners, filing
 cabinets, home office, work office, voice mails, home email, webmail, work email,
 backup tapes or other media);
- what third parties, if any, were contacted to obtain responsive documents (e.g., phone companies for phone records, brokerage firms for brokerage records); and
- where the original electronic and hardcopy documents are maintained and by whom.

For any documents that qualify as records of regularly conducted activities under Federal Rule of Evidence 902(11), please complete a business records certification (a sample of which is enclosed) and return it with the document production.

What if I do not send everything described in the attachment to the subpoena?

The subpoena requires you to send <u>all</u> the materials described in it. If, for any reason including a claim of attorney-client privilege—you do not produce something called for by the subpoena, you should submit a list of what you are not producing. The list should describe each item separately, noting:

- its author(s);
- its date;
- its subject matter;
- the name of the person who has the item now, or the last person known to have it;
- the names of everyone who ever had the item or a copy of it, and the names of everyone who was told the item's contents;
- the reason you did not produce the item; and
- the specific request in the subpoena to which the document relates.

If you withhold anything on the basis of a claim of attorney-client privilege or attorney work product protection, you should identify the attorney and client involved. If you withhold

anything on the basis of the work product doctrine, you should also identify the litigation in anticipation of which the document was prepared.

If documents responsive to this subpoena no longer exist because they have been lost, discarded, or otherwise destroyed, you should identify such documents and give the date on which they were lost, discarded or destroyed.

Where should I send the materials?

Please send the materials to:

ENF-CPU (U.S. Securities & Exchange Commission) 14420 ALBEMARLE POINT PL Suite 102 CHANTILLY, VA 20151-1750

For smaller electronic productions under 10MB in size, the materials may be emailed to
the following email address: ENF-CPU@sec.gov with copies to (0)(6): @sec.gov,
(b)(6); (b)(7)(c) usec.gov, and (b)(6); (b)(7)(C) usec.gov. If you would like to use the Commission's secure
electronic transfer site, Accellion/Kiteworks, please contact me and I will send you a link.

Testifying

Where and when do I testify?

The subpoena requires you to come to the Commission's offices at 100 Pearl Street, Suite 20-100, New York, NY 10004 at 9:30 a.m. on December 22, 2023 to testify under oath in the matter identified on the subpoena. But, as noted above, if you comply with all the directions for producing documents, we will not require you to testify at the indicated time. We may require your testimony later, however.

Other Important Information

May I have a lawyer help me respond to the subpoena?

Yes. You have the right to consult with and be represented by your own lawyer in this matter. Your lawyer may also advise and accompany you when you testify. We cannot give you legal advice.

What will the Commission do with the materials I send and/or the testimony I provide?

The enclosed SEC Form 1662 explains how we may use the information you provide to the Commission. This form also has other important information for you. Please read it carefully.

Has the Commission determined that anyone has done anything wrong?

This investigation is a non-public, fact-finding inquiry. We are trying to determine whether there have been any violations of the federal securities laws. The investigation and the subpoena do not mean that we have concluded that you or anyone else has violated the law. Also, the investigation does not mean that we have a negative opinion of any person, entity or security.

Important Policy Concerning Settlements

Please note that, in any matter in which enforcement action is ultimately deemed to be warranted, the Division of Enforcement will not recommend any settlement to the Commission unless the party wishing to settle certifies, under penalty of perjury, that all documents responsive to Commission subpoenas and formal and informal document requests in this matter have been produced.

I have read this letter, the subpoena, and the SEC Form 1662, but I still have questions. What should I do?

If you ha	ve any other questions, you may call me at (b)(6); (b)(7)(C)	or (b)(6); (b)(7)(C)	a
	If you are represented by a lawyer, you should have your la		-

Sincerely,

(b)(6); (b)(7)(C)	
Division of Enfo	rcement
(b)(6); (b)(7)(C) sec.g	J ov

Enclosures: Subpoena and Attachment

SEC Data Delivery Standards

SEC Form 1662

Business Records Certification



SUBPOENA

UNITED STATES OF AMERICA SECURITIES AND EXCHANGE COMMISSION

In the Matter of Ethereum 2.0 (C-08950)

To:	(b)(6); (b)(7)(C)			
\boxtimes	YOU MUST PRODUCE everything specified in the Attachment to this subpoena to officers of the Securities and Exchange Commission, at the place, date and time specified below:			
	ENF-CPU, U.S. Securities and Exchange Commission, 14420 Albemarle Point Pl, Suite 102, Chantilly, VA 20151-1750, no later than December 18, 2023, at 9:30 a.m.			
\boxtimes	YOU MUST TESTIFY before officers of the Securities and Exchange Commission, at the place, date and time specified below:			
	New York Regional Of December 22, 2023, at	Fice, 100 Pearl Street, Suite 20-100, New York, NY 10004 on 9:30 a.m.		
	you do not comply with this	EQUIRES YOU TO COMPLY WITH THIS SUBPOENA. subpoena, the SEC may bring an action in Federal Court to enforce this that a court order enforcing this subpoena may result in the court imposing a fine, imprisonment, or both.		
By:	(b)(6); (b)(7)(C)	Date: December 4, 2023		
	U.S. Securities and Excha	•		
	New York Regional Offi			
	100 Pearl Street, Suite 20 New York, NY 10004	<i>)</i> -100		
	THEM TOLK, INT TOUCH			

I am an officer of the U.S. Securities and Exchange Commission authorized to issue subpoenas in this matter. The Securities and Exchange Commission has issued a formal order authorizing this investigation under: Section 20(a) of the Securities Act of 1933.

NOTICE TO WITNESS: If you claim a witness fee or mileage, submit this subpoena with the claim voucher

SUBPOENA ATTACHMENT FOR (b)(6); (b)(7)(C)

December 4, 2023

In the Matter of Ethereum 2.0 (C-08950)

A. Definitions

As used in this document subpoena, the words and phrases listed below shall have the following meanings:

- 1. "Relevant Period" means July 1, 2018 to the present.
- 2. The "Foundation" means the entity or business doing business under the name Ethereum Foundation, including ethereum.org and parents, subsidiaries, affiliates, predecessors, successors, officers, directors, employees, agents, general partners, limited partners, partnerships and aliases, owners, code names, or trade or business names used by any of the foregoing.
- 3. "EIP" means Ethereum Improvement Proposal.
- 4. "The Merge" or "Ethereum 2.0" means the transition by the Ethereum blockchain of its consensus mechanism from proof-of-work to proof-of-stake.
- 5. "Beacon Chain" means the original proof-of-stake blockchain that was launched in 2020 that ran alongside the original proof-of-work Ethereum blockchain.
- 6. "ETH" means Ether or the native crypto asset for the Ethereum blockchain and network.
- "Document" includes, but is not limited to, any written, printed, or typed matter including, but not limited to all drafts and copies bearing notations or marks not found in the original, letters and correspondence, interoffice communications, slips, tickets, records, worksheets, financial records, accounting documents, bookkeeping documents, memoranda, reports, manuals, telephone logs, telegrams, facsimiles, messages of any type, telephone messages, voice mails, tape recordings, notices, instructions, minutes, summaries, notes of meetings, file folder markings, and any other organizational indicia, purchase orders, information recorded by photographic process, including microfilm and microfiche, computer printouts, spreadsheets, and other electronically stored information, including but not limited to writings, drawings, graphs, charts, photographs, sound recordings, images, and other data or data compilations that are stored in any medium from which information can be retrieved, obtained, manipulated, or translated.
- 8. "Communication" means any correspondence, contact, discussion, e-mail, instant message, or any other kind of oral or written exchange or transmission of information (in the form of facts, ideas, inquiries, or otherwise), including but not limited to those made on Social Media Services, and any response thereto between two or more Persons or entities, including, without limitation, all

- telephone conversations, face-to-face meetings or conversations, internal or external discussions, or exchanges of a Document or Documents.
- 9. "Concerning" means directly or indirectly, in whole or in part, describing, constituting, evidencing, recording, evaluating, substantiating, concerning, referring to, alluding to, in connection with, commenting on, relating to, regarding, discussing, showing, analyzing or reflecting.
- 10. "Agreement" means any actual or contemplated (i) written or oral Agreement; (ii) term or provision of such Agreement; or (iii) amendment of any nature or termination of such Agreement. A request for any Agreement among or between specified parties includes a request for all Documents Concerning (i) any actual or contemplated Agreement among or between such parties, whether or not such Agreement included any other Person; (ii) the drafting or negotiation of any such Agreement; (iii) any actual or contemplated demand, request or application for any such Agreement, and any response thereto; and (iv) any actual or contemplated objection or refusal to enter into any such Agreement, and any response thereto.
- 11. "Person" means a natural person, firm, association, organization, partnership, business, trust, corporation, bank or any other private or public entity.
- 12. The term "you" and "your" means the Person or entity to whom this subpoena was issued.
- 13. To the extent necessary to bring within the scope of this subpoena any information or Documents that might otherwise be construed to be outside its scope:
 - a. the word "or" means "and/or";
 - b. the word "and" means "and/or";
 - c. the functional words "each," "every" "any" and "all" shall each be deemed to include each of the other functional words;
 - d. the masculine gender includes the female gender and the female gender includes the masculine gender; and
 - e. the singular includes the plural and the plural includes the singular.

B. <u>Instructions</u>

- 1. Unless otherwise specified, the subpoena calls for production of the original Documents and all copies and drafts of same. Documents responsive to this subpoena may be in electronic or paper form. Electronic Documents such as email should be produced in accordance with the attached document entitled SEC Data Delivery Standards. All electronic Documents responsive to the subpoena, including all metadata, should also be produced in their native software format.
- 2. For Documents in paper format, you may send the originals, or, if you prefer, you may send copies of the originals. The Commission cannot reimburse you for the copying costs. If you are sending copies, the staff requests that you scan (rather

than photocopy) hard copy Documents and produce them in an electronic format consistent with the SEC Data Delivery Standards. Alternatively, you may send us photocopies of the Documents in paper format. If you choose to send copies, you must secure and retain the originals and store them in a safe place. The staff may later request or require that you produce the originals.

- 3. Whether you scan or photocopy Documents, the copies must be identical to the originals, including even faint marks or print. Also, please note that if copies of a Document differ in any way, they are considered separate Documents and you must send each one. For example, if you have two copies of the same letter, but only one of them has handwritten notes on it, you must send both the clean copy and the one with notes.
- 4. In producing a photocopy of an original Document that contains post-it(s), notation flag(s), or other removable markings or attachments which may conceal all or a portion of the markings contained in the original Document, photocopies of the original Document both with and without the relevant post-it(s), notation flag(s), or removable markings or attachments should be produced.
- 5. Documents should be produced as they are kept in the ordinary course of business or be organized and labeled to correspond with the categories in this subpoena. In that regard, Documents should be produced in a unitized manner, *i.e.*, delineated with staples or paper clips to identify the Document boundaries.
- 6. Documents should be labeled with sequential numbering (bates-stamped).
- 7. The scope of any given request should not be limited or narrowed based on the fact that it calls for Documents that are responsive to another request.
- 8. You are not required to produce exact duplicates of any Documents that have been previously produced to the Securities and Exchange Commission staff in connection with this matter. If you are not producing Documents based upon a prior production, please identify the responsive Documents that were previously produced.
- 9. For any Documents that qualify as records of regularly conducted activities under Federal Rule of Evidence 902(11), please complete a business records certification (a sample of which is enclosed) and return it with the Document production.
- 10. This subpoena covers all Documents in or subject to your possession, custody or control, including all Documents that are not in your immediate possession but that you have the effective ability to obtain, that are responsive, in whole or in part, to any of the individual requests set forth below. If, for any reason including a claim of attorney-client privilege—you do not produce something called for by the subpoena, you should submit a list of what you are not producing. The list should be produced as an Excel file and describe each item separately, noting:

- a. its author(s);
- b. its date;
- c. its subject matter;
- d. the name of the Person who has the item now, or the last Person known to have it;
- e. the names of everyone who ever had the item or a copy of it, and the names of everyone who was told the item's contents;
- f. the basis upon which you are not producing the responsive Document;
- g. the specific request in the subpoena to which the Document relates;
- h. the attorney(s) and the client(s) involved; and
- i. in the case of the work product doctrine, the litigation for which the Document was prepared in anticipation.
- 11. If Documents responsive to this subpoena no longer exist because they have been lost, discarded, or otherwise destroyed, you should identify such Documents and give the date on which they were lost, discarded or destroyed.

D. Documents to be Immediately Preserved and Produced

- 1. Documents and Communications Concerning the launch of the Beacon Chain, the Merge, and the website https://launchpad.ethereum.org, or any content published on the Launchpad's website.
- 2. Any organizational charts listing related entities and/or officers, directors, employees, or agents of the Foundation.
- 3. The Foundation's board meeting minutes (including drafts), agendas, and materials provided to the board or committee members provided to you Concerning the launch of the Beacon Chain; the Merge; the website https://launchpad.ethereum.org, or any content published on the Launchpad's website; or the Foundation's financial statements or financial condition.
- 4. All Documents Concerning any legal analysis of ETH issued after the Merge provided to you. Please note that the above Instructions discuss the procedures for how to handle privileged documents.
- 5. Documents sufficient to identify all investors in the Foundation (the "Investors") by name and address.
- 6. All Documents provided to, and Communications with, the Investors in connection with any offering of an interest in the ownership of the Foundation.

DECLARATION OF [Insert Name] CERTIFYING RECORDS OF REGULARLY CONDUCTED BUSINESS ACTIVITY

I, the undersigned, [insert name], pursuant to 28 U.S.C. § 1746, declare that:

- 1. I am employed by the Ethereum Foundation as [insert position] and by reason of my position am authorized and qualified to make this declaration. [if possible supply additional information as to how person is qualified to make declaration, e.g., I am custodian of records, I am familiar with the company's recordkeeping practices or systems, etc.]
- 2. I further certify that the documents [attached hereto or submitted herewith] and stamped [insert bates range] are true copies of records that were:
 - (a) made at or near the time of the occurrence of the matters set forth therein, by, or from information transmitted by, a person with knowledge of those matters;
 - (b) kept in the course of regularly conducted business activity; and
 - (c) made by the regularly conducted business activity as a regular practice.

I declare under penalty of perjury that the foregoing is true and correct. Executed on [date].

[Name]	

SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549

Supplemental Information for Persons Requested to Supply Information Voluntarily or Directed to Supply Information Pursuant to a Commission Subpoena

A. False Statements and Documents

Section 1001 of Title 18 of the United States Code provides that fines and terms of imprisonment may be imposed upon:

[W]hoever, in any matter within the jurisdiction of the executive, legislative, or judicial branch of the Government of the United States, knowingly and willfully--

- (1) falsifies, conceals, or covers up by any trick, scheme, or device a material fact;
- (2) makes any materially false, fictitious, or fraudulent statement or representation; or
- (3) makes or uses any false writing or document knowing the same to contain any materially false, fictitious, or fraudulent statement or entry.

Section 1519 of Title 18 of the United States Code provides that fines and terms of imprisonment may be imposed upon:

Whoever knowingly alters, destroys, mutilates, conceals, covers up, falsifies, or makes a false entry in any record, document, or tangible object with the intent to impede, obstruct, or influence the investigation or proper administration of any matter within the jurisdiction of any department or agency of the United States . . ., or in relation to or contemplation of any such matter.

B. Testimony

If your testimony is taken, you should be aware of the following:

- 1. Record. Your testimony will be transcribed by a reporter. If you desire to go off the record, please indicate this to the Commission employee taking your testimony, who will determine whether to grant your request. The reporter will not go off the record at your, or your counsel's, direction.
- 2. Counsel. You have the right to be accompanied, represented and advised by counsel of your choice. Your counsel may advise you before, during and after your testimony; question you briefly at the conclusion of your testimony to clarify any of the answers you give during testimony; and make summary notes during your testimony solely for your use. If you are accompanied by counsel, you may consult privately.

If you are not accompanied by counsel, please advise the Commission employee taking your testimony if, during the testimony, you desire to be accompanied, represented and advised by counsel. Your testimony will be adjourned once to afford you the opportunity to arrange to be so accompanied, represented or advised.

You may be represented by counsel who also represents other persons involved in the Commission's investigation. This multiple representation, however, presents a potential conflict of interest if one client's interests are or may be adverse to another's. If you are represented by counsel who also represents other persons involved in the investigation, the Commission will assume that you and counsel have discussed and resolved all issues concerning possible conflicts of interest. The choice of counsel, and the responsibility for that choice, is yours.

3. Transcript Availability. Rule 6 of the Commission's Rules Relating to Investigations, 17 CFR 203.6, states:

A person who has submitted documentary evidence or testimony in a formal investigative proceeding shall be entitled, upon written request, to procure a copy of his documentary evidence or a transcript of his testimony on payment of the appropriate fees: *Provided, however*, That in a nonpublic formal investigative proceeding the Commission may for good cause deny such request. In any event, any witness, upon proper identification, shall have the right to inspect the official transcript of the witness' own testimony.

If you wish to purchase a copy of the transcript of your testimony, the reporter will provide you with a copy of the appropriate form. Persons requested to supply information voluntarily will be allowed the rights provided by this rule.

4. *Perjury.* Section 1621 of Title 18 of the United States Code provides that fines and terms of imprisonment may be imposed upon:

Whoever--

(1) having taken an oath before a competent tribunal, officer, or person, in any case in which a law of the United States authorizes an oath to be administered, that he will testify, declare,

depose, or certify truly, or that any written testimony, declaration, deposition, or certificate by him subscribed, is true, willfully and contrary to such oath states or subscribes any material matter which he does not believe to be true; or

- (2) in any declaration, certificate, verification, or statement under penalty of perjury as permitted under section 1746 of title 28, United States Code, willfully subscribes as true any material matter which he does not believe to be true.
- 5. Fifth Amendment and Voluntary Testimony. Information you give may be used against you in any federal, state, local or foreign administrative, civil or criminal proceeding brought by the Commission or any other agency.

You may refuse, in accordance with the rights guaranteed to you by the Fifth Amendment to the Constitution of the United States, to give any information that may tend to incriminate you.

If your testimony is not pursuant to subpoena, your appearance to testify is voluntary, you need not answer any question, and you may leave whenever you wish. Your cooperation is, however, appreciated.

6. Formal Order Availability. If the Commission has issued a formal order of investigation, it will be shown to you during your testimony, at your request. If you desire a copy of the formal order, please make your request in writing.

C. Submissions and Settlements

Rule 5(c) of the Commission's Rules on Informal and Other Procedures. 17 CFR 202.5(c), states:

Persons who become involved in . . . investigations may, on their own initiative, submit a written statement to the Commission setting forth their interests and position in regard to the subject matter of the investigation. Upon request, the staff, in its discretion, may advise such persons of the general nature of the investigation, including the indicated violations as they pertain to them, and the amount of time that may be available for preparing and submitting a statement prior to the presentation of a staff recommendation to the Commission for the commencement of an administrative or injunction proceeding. Submissions by interested persons should be forwarded to the appropriate Division Director or Regional Director with a copy to the staff members conducting the investigation and should be clearly referenced to the specific investigation to which they relate. In the event a recommendation for the commencement of an enforcement proceeding is presented by the staff, any submissions by interested persons will be forwarded to the Commission in conjunction with the staff memorandum.

The staff of the Commission routinely seeks to introduce submissions made pursuant to Rule 5(c) as evidence in Commission enforcement proceedings, when the staff deems appropriate.

Rule 5(f) of the Commission's Rules on Informal and Other Procedures, 17 CFR 202.5(f), states:

In the course of the Commission's investigations, civil lawsuits, and administrative proceedings, the staff, with appropriate authorization, may discuss with persons involved the disposition of such matters by consent, by settlement, or in some other manner. It is the policy of the Commission, however, that the disposition of any such matter may not, expressly or impliedly, extend to any criminal charges that have been, or may be, brought against any such person or any recommendation with respect thereto. Accordingly, any person involved in an enforcement matter before the Commission who consents, or agrees to consent, to any judgment or order does so solely for the purpose of resolving the claims against him in that investigative, civil, or administrative matter and not for the purpose of resolving any criminal charges that have been, or might be, brought against him. This policy reflects the fact that neither the Commission nor its staff has the authority or responsibility for instituting, conducting, settling, or otherwise disposing of criminal proceedings. That authority and responsibility are vested in the Attorney General and representatives of the Department of Justice.

D. Freedom of Information Act

The Freedom of Information Act, 5 U.S.C. 552 (the "FOIA"), generally provides for disclosure of information to the public. Rule 83 of the Commission's Rules on Information and Requests, 17 CFR 200.83, provides a procedure by which a person can make a written request that information submitted to the Commission not be disclosed under the FOIA. That rule states that no determination as to the validity of such a request will be made until a request for disclosure of the information under the FOIA is received. Accordingly, no response to a request that information not be disclosed under the FOIA is necessary or will be given until a request for disclosure under the FOIA is received. If you desire an acknowledgment of receipt of your written request that information not be disclosed under the FOIA, please provide a duplicate request, together with a stamped, self-addressed envelope.

E. Authority for Solicitation of Information

Persons Directed to Supply Information Pursuant to Subpoena. The authority for requiring production of information is set forth in the subpoena. Disclosure of the information to the Commission is mandatory, subject to the valid assertion of any legal right or privilege you might have.

Persons Requested to Supply Information Voluntarily. One or more of the following provisions authorizes the Commission to solicit the information requested: Sections 19 and/or 20 of the Securities Act of 1933; Section 21 of the Securities Exchange Act of 1934; Section 321 of the Trust Indenture Act of 1939; Section 42 of the Investment Company Act of 1940; Section 209 of the Investment Advisers Act of 1940; and 17 CFR 202.5. Disclosure of the requested information to the Commission is voluntary on your part.

F. Effect of Not Supplying Information

Persons Directed to Supply Information Pursuant to Subpoena. If you fail to comply with the subpoena, the Commission may seek a court order requiring you to do so. If such an order is obtained and you thereafter fail to supply the information, you may be subject to civil and/or criminal sanctions for contempt of court. In addition, Section 21(c) of the Securities Exchange Act of 1934, Section 42(c) of the Investment Company Act of 1940, and Section 209(c) of the Investment Advisers Act of 1940 provide that fines and terms of imprisonment may be imposed upon any person who shall, without just cause, fail or refuse to attend and testify or to answer any lawful inquiry, or to produce books, papers, correspondence, memoranda, and other records in compliance with the subpoena.

Persons Requested to Supply Information Voluntarily. There are no direct sanctions and thus no direct effects for failing to provide all or any part of the requested information.

G. Principal Uses of Information

The Commission's principal purpose in soliciting the information is to gather facts in order to determine whether any person has violated, is violating, or is about to violate any provision of the federal securities laws or rules for which the Commission has enforcement authority, such as rules of securities exchanges and the rules of the Municipal Securities Rulemaking Board. Facts developed may, however, constitute violations of other laws or rules. Information provided may be used in Commission and other agency enforcement proceedings. Unless the Commission or its staff explicitly agrees to the contrary in writing, you should not assume that the Commission or its staff acquiesces in, accedes to, or concurs or agrees with, any position, condition, request, reservation of right, understanding, or any other statement that purports, or may be deemed, to be or to reflect a limitation upon the Commission's receipt, use, disposition, transfer, or retention, in accordance with applicable law, of information provided.

H. Routine Uses of Information

The Commission often makes its files available to other governmental agencies, particularly United States Attorneys and state prosecutors. There is a likelihood that information supplied by you will be made available to such agencies where appropriate. Whether or not the Commission makes its files available to other governmental agencies is, in general, a confidential matter between the Commission and such other governmental agencies.

Set forth below is a list of the routine uses which may be made of the information furnished.

- 1. To appropriate agencies, entities, and persons when (1) the SEC suspects or has confirmed that there has been a breach of the system of records, (2) the SEC has determined that as a result of the suspected or confirmed breach there is a risk of harm to individuals, the SEC (including its information systems, programs, and operations), the Federal Government, or national security; and (3) the disclosure made to such agencies, entities, and persons is reasonably necessary to assist in connection with the SEC's efforts to respond to the suspected or confirmed breach or to prevent, minimize, or remedy such harm.
- 2. To other Federal, state, local, or foreign law enforcement agencies; securities self-regulatory organizations; and foreign financial regulatory authorities to assist in or coordinate regulatory or law enforcement activities with the SEC.
- 3. To national securities exchanges and national securities associations that are registered with the SEC, the Municipal Securities Rulemaking Board; the Securities Investor Protection Corporation; the Public Company Accounting Oversight Board; the Federal banking authorities, including, but not limited to, the Board of Governors of the Federal Reserve System, the Comptroller of the Currency, and the Federal Deposit Insurance Corporation; state securities regulatory agencies or organizations; or regulatory authorities of a foreign government in connection with their regulatory or enforcement responsibilities.
- 4. By SEC personnel for purposes of investigating possible violations of, or to conduct investigations authorized by, the Federal securities laws.
- 5. In any proceeding where the Federal securities laws are in issue or in which the Commission, or past or present members of its staff, is a party or otherwise involved in an official capacity.
- 6. In connection with proceedings by the Commission pursuant to Rule 102(e) of its Rules of Practice, 17 CFR 201.102(e).

- 7. To a bar association, state accountancy board, or other Federal, state, local, or foreign licensing or oversight authority; or professional association or self-regulatory authority to the extent that it performs similar functions (including the Public Company Accounting Oversight Board) for investigations or possible disciplinary action.
- 8. To a Federal, state, local, tribal, foreign, or international agency, if necessary to obtain information relevant to the SEC's decision concerning the hiring or retention of an employee; the issuance of a security clearance; the letting of a contract; or the issuance of a license, grant, or other benefit.
- 9. To a Federal, state, local, tribal, foreign, or international agency in response to its request for information concerning the hiring or retention of an employee; the issuance of a security clearance; the reporting of an investigation of an employee; the letting of a contract; or the issuance of a license, grant, or other benefit by the requesting agency, to the extent that the information is relevant and necessary to the requesting agency's decision on the matter.
- 10. To produce summary descriptive statistics and analytical studies, as a data source for management information, in support of the function for which the records are collected and maintained or for related personnel management functions or manpower studies; may also be used to respond to general requests for statistical information (without personal identification of individuals) under the Freedom of Information Act.
- 11. To any trustee, receiver, master, special counsel, or other individual or entity that is appointed by a court of competent jurisdiction, or as a result of an agreement between the parties in connection with litigation or administrative proceedings involving allegations of violations of the Federal securities laws (as defined in section 3(a)(47) of the Securities Exchange Act of 1934, 15 U.S.C. 78c(a)(47)) or pursuant to the Commission's Rules of Practice, 17 CFR 201.100 through 900 or the Commission's Rules of Fair Fund and Disgorgement Plans, 17 CFR 201.1100 through 1106, or otherwise, where such trustee, receiver, master, special counsel, or other individual or entity is specifically designated to perform particular functions with respect to, or as a result of, the pending action or proceeding or in connection with the administration and enforcement by the Commission of the Federal securities laws or the Commission's Rules of Practice or the Rules of Fair Fund and Disgorgement Plans.
- 12. To any persons during the course of any inquiry, examination, or investigation conducted by the SEC's staff, or in connection with civil litigation, if the staff has reason to believe that the person to whom the record is disclosed may have further information about the matters related therein, and those matters appeared to be relevant at the time to the subject matter of the inquiry.
- 13. To interns, grantees, experts, contractors, and others who have been engaged by the Commission to assist in the performance of a service related to this system of records and who need access to the records for the purpose of assisting the Commission in the efficient administration of its programs, including by performing clerical, stenographic, or data analysis functions, or by reproduction of records by electronic or other means. Recipients of these records shall be required to comply with the requirements of the Privacy Act of 1974, as amended, 5 U.S.C.
- 14. In reports published by the Commission pursuant to authority granted in the Federal securities laws (as such term is defined in section 3(a)(47) of the Securities Exchange Act of 1934, 15 U.S.C. 78c(a)(47)), which authority shall include, but not be limited to, section 21(a) of the Securities Exchange Act of 1934, 15 U.S.C. 78u(a)).
- 15. To members of advisory committees that are created by the Commission or by Congress to render advice and recommendations to the Commission or to Congress, to be used solely in connection with their official designated functions.
- 16. To any person who is or has agreed to be subject to the Commission's Rules of Conduct, 17 CFR 200.735-1 through 200.735-18, and who assists in the investigation by the Commission of possible violations of the Federal securities laws (as such term is defined in section 3(a)(47) of the Securities Exchange Act of 1934, 15 U.S.C. 78c(a)(47)), in the preparation or conduct of enforcement actions brought by the Commission for such violations, or otherwise in connection with the Commission's enforcement or regulatory functions under the Federal securities laws.
- 17. To a Congressional office from the record of an individual in response to an inquiry from the Congressional office made at the request of that individual.
- 18. To members of Congress, the press, and the public in response to inquiries relating to particular Registrants and their activities, and other matters under the Commission's jurisdiction.
- 19. To prepare and publish information relating to violations of the Federal securities laws as provided in 15 U.S.C. 78c(a)(47)), as amended.
- 20. To respond to subpoenas in any litigation or other proceeding.
- 21. To a trustee in bankruptcy.
- 22. To any governmental agency, governmental or private collection agent, consumer reporting agency or commercial reporting agency, governmental or private employer of a debtor, or any other person, for collection,

including collection by administrative offset, Federal salary offset, tax refund offset, or administrative wage garnishment, of amounts owed as a result of Commission civil or administrative proceedings.

23. To another Federal agency or Federal entity, when the SEC determines that information from this system of records is reasonably necessary to assist the recipient agency or entity in (1) responding to a suspected or confirmed breach or (2) preventing, minimizing, or remedying the risk of harm to individuals, the recipient agency or entity (including its information systems, programs, and operations), the Federal Government, or national security, resulting from a suspected or confirmed breach.

* * * * *

Small Business Owners: The SEC always welcomes comments on how it can better assist small businesses. If you would like more information, or have questions or comments about federal securities regulations as they affect small businesses, please contact the Office of Small Business Policy, in the SEC's Division of Corporation Finance, at 202-551-3460. If you would prefer to comment to someone outside of the SEC, you can contact the Small Business Regulatory Enforcement Ombudsman at http://www.sba.gov/ombudsman or toll free at 888-REG-FAIR. The Ombudsman's office receives comments from small businesses and annually evaluates federal agency enforcement activities for their responsiveness to the special needs of small business.



U.S. Securities and Exchange Commission

Data Delivery Standards

This document describes the technical requirements for paper and electronic document productions to the U.S. Securities and Exchange Commission (SEC). **Any questions or proposed file formats other than those described below must be discussed with the legal and technical staff of the SEC Division of Enforcement prior to submission.**

OCHE	at tistiuctions	
Deliv	cry Formats	2
Ι.	Imaged Productions	
	1. Images	-
	Image Cross-Reference File	
	3. Data File	-
	4. Text	
	5. Linked Native Files	-
	Native File Productions without Load Files	
[[[. Adobe PDF File Productions	
	. Audio Files	
	Video Files	
VI	Electronic Trade and Bank Records	_4
VI	I. Electronic Phone Records	. 4
VI	II. Audit Workpapers	5
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General Instructions

Conoral Instructions

The current mailing address for all physical productions sent to the SEC is:

ENF-CPU (U.S. Securities & Exchange Commission), 14420 Albemarle Point Place, Suite 102, Chantilly, VA 20151-1750

Electronic files must be produced in their native format, i.e. the format in which they are ordinarily used and maintained during the normal course of business. For example, an MS Excel file must be produced as an MS Excel file rather than an image of a spreadsheet. (Note: An Adobe PDF file is not considered a native file unless the document was initially created as a PDF.)

In the event produced files require the use of proprietary software not commonly found in the workplace, the SEC will explore other format options with the producing party.

The proposed use of file de-duplication methodologies or computer-assisted review or technology-assisted review (TAR) during the processing of documents must be discussed with and approved by the legal and technical staff of the Division of Enforcement (ENF). If your production will be de-duplicated it is vital that you 1) preserve any unique metadata associated with the duplicate files, for example, custodian name and file location and, 2) make that unique metadata part of your production to the SEC.

General requirements for ALL document productions are:

- 1. A cover letter must be included with each production and should include the following information:
 - a. Case number, case name and requesting SEC staff member name
 - b. A list of each piece of media included in the production with its unique production volume number
 - c. A list of custodians, identifying the Bates range for each custodian
 - d. A list of redacted documents and the redaction reason
 - e. The time zone in which the emails were standardized during conversion
 - f. Whether the production contains native files produced from Mac operating system environments
- 2. Data can be produced on CD, DVD, thumb drive, etc., using the media requiring the least number of deliverables and labeled with the following:
 - a. Case number
 - b. Production date
 - c. Producing party
 - d. Bates range (if applicable)
- All submissions must be organized by custodian unless otherwise instructed.
- 4. All document family groups, i.e. email attachments, embedded files, etc., should be produced together and children files should follow parent files sequentially in the Bates numbering.
- 5. All load-ready collections should include only one data load file and one image pointer file.
- 6. All load-ready text must be produced as separate document-level text files.
- All load-ready collections should account for custodians in the custodian field.
- All load-ready collections must provide the extracted contents of any container files to ensure all relevant files are produced as separate records.
- 9. Audio files should be separated from data files if both are included in the production.
- Only alphanumeric characters and the underscore character are permitted in file names and folder names. Special characters
 are not permitted.
- 11. All electronic productions submitted on media must be produced using industry standard self-extracting encryption software.
- 12. The SEC uses 7zip to access compressed files. Note that the SEC **cannot** accept files that use AES-256 Jpeg or pkAES-256-Cert Deflate compression methods, even if the files are created with 7zip. If you have any questions or need additional information, please reach out to the requesting SEC staff member.
- 13. Electronic productions of 20 GB or less are strongly encouraged to be submitted via Secure File Transfer. All Secure File Transfers should be sent to the SEC Centralized Production Unit (ENF-CPU@sec.gov) with a CC to the requesting SEC staff member. If you do not have your own Secure File Transfer application, you may reach out to the requesting SEC staff member for a link to the SEC system in order to upload your production. If using the SEC Secure File Transfer system, you will NOT be able to CC individuals outside the SEC on your upload transmission. Note that the SEC cannot accept productions made using file sharing sites such as Google Drive, Microsoft Office 365 or Dropbox.
- 14. Productions containing BSA or SAR material must be encrypted. Secure File Transfer applications may be used to produce BSA or SAR material. BSA or SAR material should be segregated and appropriately marked as BSA or SAR, or should be produced separately from other case related records.
- 15. Passwords for electronic documents, files, compressed archives and encrypted media must be provided separately either via email or in a cover letter apart from the media.
- 16. All electronic productions should be produced free of computer viruses.
- Before producing forensically collected images, parties should reach out to the requesting SEC staff member in order to discuss appropriate handling.
- 18. Before producing unique data sets (large sets of relational data, website reconstruction, chat room data, etc.), parties should reach out to the requesting SEC staff member in order to discuss an appropriate production format.
- Additional technical descriptions can be found in the addendum to this document.

Please note that productions sent to the SEC via United States Postal Service are subject to Mail Irradiation, and as a result electronic productions may be damaged.

Delivery Formats

Imaged Productions

The SEC prefers that all scanned paper and electronic file collections be produced in a structured format including industry standard load files, Bates numbered image files, native files and searchable document-level text files. Bates numbers should not contain spaces. Hyphens (-) and underscores () are acceptable.

1. Images

- a. Black and white images must be 300 DPI Group IV single-page TIFF files
- b. Color images must be produced in JPEG format
- c. File names cannot contain embedded spaces or special characters (including the comma)
- d. Folder names cannot contain embedded spaces or special characters (including the comma)
- c. All image files must have a unique file name, i.e. Bates number
- f. Images must be endorsed with sequential Bates numbers in the lower right corner of each image
- The number of image files per folder should not exceed 2,000 files g.
- h. Excel spreadsheets should have a placeholder image named by the Bates number of the file
- AUTOCAD/photograph files should be produced as a single page JPEG file

2. Image Cross-Reference File

The image cross-reference file (.LOG or .OPT) links the images to the database records. It should be a comma-delimited file consisting of seven fields per line with a line in the cross-reference file for every image in the database with the following format:

ImageID, VolumeLabel, ImageFilePath, DocumentBreak, FolderBreak, BoxBreak, PageCount

3. Data File

The data file (.DAT) contains all of the fielded information that will be loaded into the database.

- The first line of the .DAT file must be a header row identifying the field names
- The .DAT file must use the following *Concordance*® default delimiters:

Comma ¶ ASCII character (020)

Quote b ASCII character (254)

- c. If the .DAT file is produced in Unicode format it must contain the byte order marker
- d. Date fields should be provided in the format: mm/dd/yyyy
- e. Date and time fields must be two separate fields
- ſ. The time zone must be included in all time fields
- If the production includes imaged emails and attachments, the attachment fields must be included to preserve the parent/child relationship between an email and its attachments
- An OCRPATH field must be included to provide the file path and name of the extracted text file on the produced storage media. The text file must be named after the FIRSTBATES. Do not include the text in the .DAT file.
- For productions with native files, a LINK field must be included to provide the file path and name of the native file on the produced storage media. The native file must be named after the FIRSTBATES.
- BEGATTACH and ENDATTACH fields must be two separate fields
- A complete list of metadata fields is available in Addendum A to this document

4. Text

Text must be produced as separate document-level text files, not as fields within the .DAT file. The text files must be named per the FIRSTBATES/Image Key and the full path to the text file (OCRPATH) should be included in the .DAT file. Text files may be in either ANSI or Unicode format, however, ALL text files must be in the same format within the same production. Note that productions containing text with foreign characters must produce text files in Unicode format to preserve the foreign characters. Text files must be in a separate folder, and the number of text files per folder should not exceed 2,000 files. There should be no special characters (including commas) in the folder names. For redacted documents, provide the full text for the redacted version.

Linked Native Files

Copies of original email and native file documents/attachments must be included for all electronic productions.

- a. Native file documents must be named per the FIRSTBATES number
- b. The full path of the native file must be provided in the .DAT file for the LINK field
- The number of native files per folder should not exceed 2,000 files

11. Native File Production without Load Files

With prior approval, native files may be produced without load files. Native file productions should not be Bates numbered. Native files must be produced as they are maintained in the normal course of business and organized by custodian-named file folders. Native email files (.PST or .MBOX) must be separated by custodian.

III. Adobe PDF File Production

With prior approval, Adobe PDF files may be produced in native file format.

- 1. All PDFs must be unitized at the document level, i.e., each PDF must represent a discrete document.
- 2. PDF files should be produced in separate folders named by the custodian. The folders should not contain any special characters (including commas).
- 3. All PDF files must contain embedded text that includes all discernible words within the document, not selected text or image only. This requires all layers of the PDF to be flattened first.
- 4. If PDF files are Bates endorsed, the PDF files must be named by the Bates range.

IV. Audio Files

Audio files from telephone recording systems must be produced in a format that is playable using Microsoft Windows Media PlayerTM. Additionally, the call information (metadata) related to each audio recording MUST be provided. The metadata file must be produced in a delimited text format. Field names must be included in the first row of the text file. The metadata must include, at a minimum, the following fields:

1) Caller Name: Caller's name or account/identification number

2) Originating Number: Caller's phone number3) Called Party Name: Called party's name

4) Terminating Number: Called party's phone number

5) Date: Date of call 6) Time: Time of call

7) Filename: Filename of audio file

V. Video Files

Video files must be produced in a format that is playable using Microsoft Windows Media Player™.

VI. Electronic Trade and Bank Records

When producing electronic trade records, bank records, or financial statements, provide the files in one of the following formats:

- 1. MS Excel spreadsheet with header information detailing the field structure. If any special codes exist in the dataset, a separate document must be provided that details all such codes. If details of the field structure do not fit in the header, a separate document must be provided that includes such details.
- 2. Delimited text file with header information detailing the field structure. The preferred delimiter is a vertical bar "|". If any special codes exist in the dataset, a separate document must be provided that details all such codes. If details of the field structure do not fit in the header, a separate document must be provided that includes such details.

VII. Electronic Phone Records

When producing an MS Excel spreadsheet for electronic phone records, provide the files in the following format:

- 1. MS Excel spreadsheet with header information detailing the field structure. If any special codes exist in the dataset, a separate document must be provided that details all such codes. If details of the field structure do not fit in the header, a separate document must be provided that includes such details. Data must be formatted in its native format (i.e. dates in a date format, numbers in an appropriate numerical format, and numbers with leading zeroes as text).
 - a. The metadata that must be included is outlined in **Addendum B** of this document. Each field of data must be loaded into a separate column. For example, Date and Start_Time must be produced in separate columns and not combined into a single column containing both pieces of information. Any fields of data that are provided in addition to those listed in **Addendum B** must also be loaded into separate columns.

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Data Delivery Standards

VIII. Audit Workpapers

The SEC prefers for workpapers to be produced in two formats: (1) With Bates numbers in accordance with the SEC Data Delivery Standards; and (2) in native format or if proprietary software was used, on a standalone laptop with the appropriate software loaded so that the workpapers may be reviewed as they would have been maintained in the ordinary course of business. The laptop must have printing capability, and when possible, the laptop should be configured to enable a Virtual Machine (VM) environment.

IX. Mobile Device Data

Before producing any mobile device data (including but not limited to text messages and application data) parties should reach out to the requesting SEC staff member in order to discuss the appropriate production format.

ADDENDUM A

The metadata of electronic document collections should be extracted and provided in a .DAT file using the field definition and formatting described below:

Field Name	Sample Data	Description
FIRSTBATES	EDC0000001	First Bates number of native file document/email
LASTBATES	EDC0000001	Last Bates number of native file document/email
		**The LASTBATES field should be populated
		for single page documents/emails.
ATTACHRANGE	EDC0000001 - EDC0000015	Bates number of the first page of the parent
		document to the Bates number of the last page of the
		last attachment "child" document
BEGATTACH	EDC0000001	First Bates number of attachment range
ENDATTACH	EDC0000015	Last Bates number of attachment range
PARENT_BATES	EDC0000001	First Bates number of parent document/Email **This PARENT BATES field should be populated in each record representing an attachment "child" document
CHILD BATES	EDC0000002; EDC0000014	First Bates number of "child" attachment(s); can be
_		more than one Bates number listed depending on the
		number of attachments
		**The CHILD BATES field should be populated in
		each record representing a "parent" document
CUSTODIAN	Smith, John	Email: Mailbox where the email resided
		Native: Name of the individual or department from
		whose files the document originated
FROM	John Smith	Email: Sender
		Native: Author(s) of document
		**semi-colon should be used to separate multiple
		entries
TO	Coffman, Janice; LeeW	Recipient(s)
	[mailto:LeeW@MSN.com]	**semi-colon should be used to separate multiple
CC	Front Theory of Fronties	entries
CC	Frank Thompson [mailto:	Carbon copy recipient(s)
	frank Thompson@cdt.com]	**semi-colon should be used to separate multiple entries
BCC	John Cain	
BCC	John Cain	Blind carbon copy recipient(s) **scmi-colon should be used to separate multiple
		entries
SUBJECT	Board Meeting Minutes	Email: Subject line of the email
SOUTE I	Board Weeting Windles	Native: Title of document (if available)
FILE_NAME	BoardMeetingMinutes.doex	Native: Name of the original native file, including
TICE_NAME	Boardweetingivinities.doex	extension
DATE_SENT	10/12/2010	Email: Date the email was sent
D.111 D_DD141	10,12,2010	Native: (empty)
TIME SENT/TIME	07:05 PM GMT	Email: Time the email was sent/ Time zone in which
ZONE		the emails were standardized during conversion.
_		Native: (cmpty)
		**This data must be a separate field and cannot be
		combined with the DATE_SENT field
TIME_ZONE	GMT	The time zone in which the emails were standardized
_		during conversion.
		Email: Time zone
l		Native: (empty)

LINK	D:\001\EDC0000001.msg	Hyperlink to the email or native file document **The linked file must be named per the FIRSTBATES number
MIME_TYPE	application/msword	The content type of an email or native file document as identified/extracted from the header
FILE_EXTEN	MSG	The file type extension representing the email or native file document; will vary depending on the format
AUTHOR	John Smith	Email: (empty) Native: Author of the document
LAST_AUTHOR	Jane Doe	Email: (empty) Native: Last Author of the document
DATE_CREATED	10/10/2010	Email: (empty) Native: Date the document was created
TIME_CREATED/T IME_ZONE	10:25 AM GMT	Email: (empty) Native: Time the document was created including time zone **This data must be a separate field and cannot be combined with the DATE_CREATED field
DATE_MOD	10/12/2010	Email: (empty) Native: Date the document was last modified
TIME_MOD/TIME_ ZONE	07:00 РМ GMT	Email: (empty) Native: Time the document was last modified including the time zone **This data must be a separate field and cannot be combined with the DATE MOD field
DATE_ACCESSD	10/12/2010	Email: (empty) Native: Date the document was last accessed
TIME_ACCESSD/T IME_ZONE	07:00 PM GMT	Email: (cmpty) Native: Time the document was last accessed including the time zone **This data must be a separate field and cannot be combined with the DATE_ACCESSD field
PRINTED_DATE	10/12/2010	Email: (empty) Native: Date the document was last printed
FILE SIZE	5,952	Size of native file document/email in KB
PGCOUNT	1	Number of pages in native file document/email
РАТН	J:\Shared\SmithJ\October Agenda.doc	Email: (empty) Native: Path where native file document was stored including original file name.
INTFILEPATH	Personal Folders\Deleted Items\Board Meeting Minutes.msg	Email: original location of email including original file name. Native: (empty)
INTMSGID	<000805c2c71b\$75977050\$cb 8306d1@MSN>	Email: Unique Message ID Native: (empty)

Case 1:24-cv-01858-ACR Document 26-1 Filed 02/04/25 Page 932 of 933 Data Delivery Standards

HEADER	Return-Path: <example_from@dc.edu> X-SpamCatcher-Score:1[X] Reccived:from[136.167.40.119] (HELO dc.edu) by fe3.dc.edu (CommuniGate Pro SMTP4.1.8) with ESMTP-TLS id 61258719 for example_to@mail.dc.edu; Mon, 23 Aug 2004 11:40:10 - 0400 Message-ID: <4129F3CA.2020509@dc.edu> Date: Mon, 23 Aug 2005 11:40:36 -400 From: Taylor Evans <example_from@dc.edu> Uscr-Agent:Mozilla/5.0 (Windows;U; Windows NT 5.1: cn-US;rv:1.0.1) Gecko/20020823 Netscape/7.0 X-Accept-Language:en-us,en MIME-Version:1.0 To: Jon Smith <example_to@mail.dc.edu> Subject:Business Development Mceting Content-Type: text/plain;charset=us-ascii; format=flowed Content-Transfer-Encoding:7bit</example_to@mail.dc.edu></example_from@dc.edu></example_from@dc.edu>	
SIIA256	AD6128C5CA40164AF71A1E FC800E12D2F195CE07BB5F8 C813B0888A2DDE6A06F	SHA-256 hash value of the document.
OCRPATH	TEXT/001/EDC0000001.txt	Path to extracted text of the native file

Sample Image Cross-Reference File:

IMG0000001,,E:\001\IMG0000001.TIF,Y,,,
IMG0000002,,E:\001\IMG0000002.TIF,,,,
IMG0000003,,E:\001\IMG0000003.TIF,,,,
IMG0000004,,E:\001\IMG0000004.TIF,Y,,,
IMG0000005,,E:\001\IMG0000005.TIF,Y,,,
IMG0000006,,E:\001\IMG0000006.TIF,y,,,

ADDENDUM B

For Electronic Phone Records, include the following fields in separate columns:

For Calls:

- 1) Account Number
- 2) Connection Date Date the call was received or made
- 3) Connection Time Time call was received or made
- 4) Seizure Time Time it took for the call to be placed in seconds
- 5) Originating Number Phone that placed the call
- 6) Terminating Number Phone that received the call
- 7) Elapsed Time The length of time the call lasted, preferably in seconds
- 8) End Time The time the call ended
- 9) Number Dialed Actual number dialed
- 10) IMEI Originating Unique id to phone used to make call
- 11) IMEI Terminating Unique id to phone used to receive call
- 12) IMSI Originating Unique id to phone used to make call
- 13) IMSI Terminating- Unique id to phone used to receive call
- 14) Call Codes Identify call direction or other routing information
- 15) Time Zone Time Zone in which the call was received or placed, if applicable

For Text messages:

- 1) Account Number
- 2) Connection Date Date the text was received or made
- 3) Connection Time Time text was received or made
- 4) Originating Number Who placed the text
- 5) Terminating Number Who received the text
- 6) IMEI Originating Unique id to phone used to make text
- 7) IMEI Terminating Unique id to phone used to receive text
- 8) IMSI Originating Unique id to phone used to make text
- 9) IMSI Terminating- Unique id to phone used to receive text
- 10) Text Code Identify text direction, or other text routing information
- 11) Text Type Code Type of text message (sent SMS, MMS, or other)
- 12) Time Zone Time Zone in which the call was received or placed, if applicable

For Mobile Data Usage:

- 1) Account Number
- 2) Connection Date Date the data was received or made
- 3) Connection Time Time data was received or made
- 4) Originating number Number that used data
- 5) IMEI Originating Unique id of phone that used data
- 6) IMSI Originating Unique id of phone that used data
- 7) Data or Data codes Identify data direction, or other data routing information
- 8) Time Zone Time Zone in which the call was received or placed, if applicable

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Exhibit B

FOR DISCUSSION PURPOSES ONLY January 7, 2025

the 1/7/2025 Release of Records Responsive to Narrowed Subpart 11 of FOIA Request No. 23-03269-FOIA in History Associates, Inc. v. SEC, 24-cv-1858 Preliminary Vaughn Index for the Securities and Exchange Commission's Withholdings from

	Email/Email Thread	Author(s)/	Description of Withheld	FOIA	Basis for
	Date(s) and Time(s)	Recipient(s)	Information/Document(s)	Exemption(s)	Withholding
1.	March 10, 2023	Victor	An email from Victor Suthammanont	Exemption 5	The withheld email and attachment are intra-agency and
_	(3:27 pm)	Suthammanont,	and the attachment to that email	(deliberative	consist of legal analysis prepared by an SEC attorney. The
_		Gary Gensler,	were withheld.	process	withheld records are deliberative because they reflect
		Amanda Fischer,		privilege;	discussion about what matters and issues the SEC attorney
_		Corey Frayer,	The email addresses of SEC staff were	attorney client	proposed that Chair Gensler should focus on. The withheld
_		Samantha Ostrom	also withheld.	privilege;	information is pre-decisional because a decision had not
_				attorney work-	been made about the effect of the legal issues discussed in
_				product	the email.
				doctrine)	
					Additionally, the withheld email was prepared by an
_				Exemption 6	attorney and contains legal analysis relating to anticipated
_					and ongoing SEC actions.
_					This email was also sent by an attorney to provide legal
					advice relating to ENF cases that the Commission had
_					brought and was considering bringing.
_					
					The withheld attachment is a public document, but
					providing the document would reveal information about
					the staff attorney's proposal about what Chair Gensler
					should focus on, would reveal actions taken in anticipation
					of litigation, and would provide information about legal
_					advice an SEC attorney was providing.
					SEC staff have a privacy interest in their email addresses,
					and there is no public interest in knowing their contact
					information.
			•		

¹ Narrowed subpart 1 seeks all documents and communications that SEC Chair Gary Gensler sent, received, or considered concerning Ethereum's shift to a proof-ofstake mechanism.

	Email/Email Thread Date(s) and Time(s)	Author(s)/ Recipient(s)	Description of Withheld Information/Document(s)	FOIA Exemption(s)	Basis for Withholding
2.	April 3, 2023 (6:36	Gary Gensler,	An email thread between SEC staff	Exemption 5	The withheld email thread is an intra-agency record that
	pm; 6:49 pm; 10:49	Amanda Fischer,	providing information about matters	(deliberative	discusses an upcoming Commission vote. The email thread
	pm; 11:04 pm;	Victor	the Commission was voting on was	process	is deliberative because it contains a recommendation to
	11:19 pm)	Suthammanont,	withheld.	privilege;	Chair Gensler and reasons for that recommendation. The
		Corey Frayer, Scott		attorney client	thread is pre-decisional because no final agency decisions
		Schneider	An attachment to one of the emails	privilege;	or findings had been made concerning the issues discussed
			in the thread, consisting of a request	attorney work-	in the thread.
			for Commission action, associated	product	
			memoranda, and a draft Commission	doctrine)	The withheld attachment is deliberative because it reflects
			order, was also withheld.		staff's recommendations to the Commission concerning an
				Exemption 6	ENF matter and the reasons for those recommendations. It
			The email addresses of SEC staff, as		is pre-decisional because it was prepared before a decision
			well as the names of certain Division	Exemption 7(C)	was made on the issues discussed in the attachment.
			of Enforcement ("ENF") staff, were		
			also withheld.		The email thread and attachment are also from attorneys,
					and they provide legal advice to the Commissioners.
					The email thread and attachment also reflect legal analysis
					and strategy prepared by ENF attorneys in connection with
					anticipated and ongoing litigation.
					SEC staff have a privacy interest in their email addresses
					and there is no public interest in knowing their contact
					information.
					ENF staff have a privacy interest in not being associated
					with a law enforcement investigation, and the public
					interest in knowing this personal information is not
					outweighed by their privacy interests.

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4. April 12, 2023 (9.12 Gay (residue, An email thread between SEC Staff (bellberarive profiler and formation) on the most interest concerning an upcoming Closed (11.14 am; 505 pm) Sutharmanout The five attachments to that thread (11.14 am; 505 pm) Sutharmanout The five attachments to that thread (11.14 am; 505 pm) Sutharmanout The five attachments to that thread (11.14 am; 505 pm) Sutharmanout The five attachments to that thread (11.14 am; 505 pm) Sutharmanout The five attachments to that thread (11.14 am; 505 pm) Sutharmanout The five attachments to that thread (11.14 am; 505 pm) Sutharmanout The five attachments to that thread (11.14 am; 505 pm) Sutharmanout The five attachments to that thread (11.14 am; 505 pm) Sutharmanout The five attachments to that thread (11.14 am; 505 pm) Sutharmanout The five attachments to recommendations relating to the commission action are decision where made about the seaso sistence of corrain secondary of commission and carry for the Commission and control of the carry proposed script for the Commission and control of the carry for the Commission concerning ENF attachments are perpension of the carry of the carry for the Commission and proposed script for the Commission and control of the reasons (11.14 am; 505 pm) Sutharmanout The email addresses of SEC staff, as well as the names of certain ENF attachments are prepared before the large commendations and proposed script for the Commission concerning matters and the reasons for those recommendations and proposed script for the Commission concerning matters and the reasons for the carry for the commission and control for size of statchments are perpensed by ENF attachments and proposed script and editor the size of the s						
Amanda Fischer, concerning an upcoming Closed (deliberative Agany Sutaria, Victor Commission Meeting was withheld. Process privilege; A amy 5:05 pm) Suthammanont The five attachments to that thread attorney client were also withheld. Those attachments consist of three attorney work-requests for Commission action, associated memoranda, and draft Commission orders, an overview of recommendations relating to the issues before the Commission, and a proposed script for the Commission meeting. The email addresses of SEC staff, as well as the names of certain ENF staff, were also withheld.	4	April 12, 2023 (9:12	Gary Gensler,	An email thread between SEC staff	Exemption 5	The withheld email thread is an intra-agency record that
Ajay Sutaria, Victor Commission Meeting was withheld. Suthammanont The five attachments to that thread attorney client were also withheld. Those attachments consist of three privilege; attachments consist of three requests for Commission action, associated memoranda, and draft commission orders, an overview of recommendations relating to the issues before the Commission, and a proposed script for the Commission, and a proposed script for the Commission meeting. The email addresses of SEC staff, as well as the names of certain ENF staff, were also withheld.		bm);	Amanda Fischer,	concerning an upcoming Closed	(deliberative	reflects possible discussion in an upcoming Closed
The five attachments to that thread attorney client were also withheld. Those attachments consist of three attachments consist of three associated memoranda, and draft Commission orders, an overview of recommendations relating to the issues before the Commission, and a proposed script for the Commission orders, an overview of meeting. The email addresses of SEC staff, as well as the names of certain ENF staff, were also withheld.		April 13, 2023	Ajay Sutaria, Victor	Commission Meeting was withheld.	process	Commission Meeting. The email thread is deliberative
attorney client privilege; attorney work- product doctrine) Exemption 6 Exemption 7(C)		(11:14 am; 5:05 pm)	Suthammanont		privilege;	because it contains analysis of what may be discussed or
privilege; attorney work- product doctrine) Exemption 6 Exemption 7(C)				The five attachments to that thread	attorney client	occur at the upcoming meeting. The thread is pre-
attorney work- product doctrine) Exemption 6 Exemption 7(C)				were also withheld. Those	privilege;	decisional because no final agency decisions had been
product doctrine) Exemption 6 Exemption 7(C)				attachments consist of three	attorney work-	made about the issues discussed in the thread.
doctrine) Exemption 6 Exemption 7(C)				requests for Commission action,	product	
Exemption 6 Exemption 7(C)				associated memoranda, and draft	doctrine)	The attached requests for Commission action are
Exemption 6 Exemption 7(C)				Commission orders, an overview of		deliberative because they reflect staff's recommendations
Exemption 7(C)				recommendations relating to the	Exemption 6	to the Commission concerning ENF matters and the reasons
Exemption 7(C)				issues before the Commission, and a		for those recommendations. These attachments are pre-
				proposed script for the Commission	Exemption 7(C)	decisional because they were prepared before final agency
				meeting.		decisions were made on the issues discussed in the
						attachments.
				The email addresses of SEC staff, as		
				well as the names of certain ENF		The attached overview of recommendations and proposed
staff's recommendations concerning matters before the Commission. These attachments are pre-decisional becaused and final agency decisions were made on the issues discussed in the attachments. The emails and attachments are also from attorneys, and they provide legal advice. The emails and attachments also reflect legal analysis and strategy prepared by EMF attorneys in connection with anticipated and ongoing litigation. SEC staff have a privacy interest in their email addresses, and there is no public interest in knowing their contact information. ENF staff have a privacy interest in not being associated with a law enforcement investigation, and the public				staff, were also withheld.		script are deliberative because they reflect Chair Gensler's
Commission. These attachments are pre-decisional because they were prepared before the meeting occurred and final agency decisions were made on the issues discussed in the attachments. The emails and attachments are also from attorneys, and they provide legal advice. The emails and attachments also reflect legal analysis and strategy prepared by ENF attorneys in connection with anticipated and ongoing litigation. SEC staff have a privacy interest in their email addresses, and there is no public interest in knowing their contact information. ENF staff have a privacy interest in not being associated with a law enforcement investigation, and the public						staff's recommendations concerning matters before the
and final agency decisions were made on the issues discussed in the attachments. The emails and attachments are also from attorneys, and they provide legal advice. The emails and attachments also reflect legal analysis and strategy prepared by ENF attorneys in connection with anticipated and ongoing litigation. SEC staff have a privacy interest in their email addresses, and there is no public interest in knowing their contact information. ENF staff have a privacy interest in not being associated with alw enforcement investigation, and the public						Commission. These attachments are pre-decisional
and that agency decisions were made on the issues discussed in the attachments. The emails and attachments are also from attorneys, and they provide legal advice. The emails and attachments also reflect legal analysis and strategy prepared by ENF attorneys in connection with anticipated and ongoing litigation. SEC staff have a privacy interest in their email addresses, and there is no public interest in knowing their contact information. ENF staff have a privacy interest in not being associated with a law enforcement investigation, and the public						because they were prepared before the meeting occurred
The emails and attachments are also from attorneys, and they provide legal advice. The emails and attachments also reflect legal analysis and strategy prepared by ENF attorneys in connection with anticipated and ongoing litigation. SEC staff have a privacy interest in their email addresses, and there is no public interest in knowing their contact information. ENF staff have a privacy interest in not being associated with a law enforcement investigation, and the public						and tinal agency decisions were made on the issues discussed in the attachments
The emails and attachments are also from attorneys, and they provide legal advice. The emails and attachments also reflect legal analysis and strategy prepared by ENF attorneys in connection with anticipated and ongoing litigation. SEC staff have a privacy interest in their email addresses, and there is no public interest in knowing their contact information. ENF staff have a privacy interest in not being associated with a law enforcement investigation, and the public						מופרמפטרת בון מוכן מרנמנודוונים:
they provide legal advice. The emails and attachments also reflect legal analysis and strategy prepared by ENF attorneys in connection with anticipated and ongoing litigation. SEC staff have a privacy interest in their email addresses, and there is no public interest in knowing their contact information. ENF staff have a privacy interest in not being associated with a law enforcement investigation, and the public						The emails and attachments are also from attorneys, and
The emails and attachments also reflect legal analysis and strategy prepared by ENF attorneys in connection with anticipated and ongoing litigation. SEC staff have a privacy interest in their email addresses, and there is no public interest in knowing their contact information. ENF staff have a privacy interest in not being associated with a law enforcement investigation, and the public						they provide legal advice.
strategy prepared by ENF attorneys in connection with anticipated and ongoing litigation. SEC staff have a privacy interest in their email addresses, and there is no public interest in knowing their contact information. ENF staff have a privacy interest in not being associated with a law enforcement investigation, and the public						The emails and attachments also reflect legal analysis and
anticipated and ongoing litigation. SEC staff have a privacy interest in their email addresses, and there is no public interest in knowing their contact information. ENF staff have a privacy interest in not being associated with a law enforcement investigation, and the public						strategy prepared by ENF attorneys in connection with
SEC staff have a privacy interest in their email addresses, and there is no public interest in knowing their contact information. ENF staff have a privacy interest in not being associated with a law enforcement investigation, and the public						anticipated and ongoing litigation.
SEC staff have a privacy interest in their email addresses, and there is no public interest in knowing their contact information. ENF staff have a privacy interest in not being associated with a law enforcement investigation, and the public						
and there is no public interest in knowing their contact information. ENF staff have a privacy interest in not being associated with a law enforcement investigation, and the public						SEC staff have a privacy interest in their email addresses,
information. ENF staff have a privacy interest in not being associated with a law enforcement investigation, and the public						and there is no public interest in knowing their contact
ENF staff have a privacy interest in not being associated with a law enforcement investigation, and the public						information.
with a law enforcement investigation, and the public						ENIE chaff have a mind and interest in and having a county
						ENF stail have a privacy interest in not being associated with a law enforcement investigation, and the public

	Email/Email Thread	Author(s)/	Description of Withheld	FOIA	Basis for
	Date(s) and Time(s)	Recipient(s)	Information/Document(s)	Exemption(s)	Withholding
					interest in knowing this personal information is not
					outweighed by their privacy interests.
2.	April 20, 2023 (7:35	Victor	An email from Victor Suthammanont	Exemption 5	The email and its attachment are intra-agency and consist
	(md	Suthammanont;	and its attachment were withheld.	(deliberative	of an overview of recommendations concerning matters
		Ajay Sutaria		process	before the Commission at an April 13, 2023 Closed
			The email addresses of SEC staff were	privilege;	Commission Meeting. These records are deliberative
			also withheld.	attorney client	because they reflect Chair Gensler's staff's
				privilege;	recommendations about issues then-before the
				attorney work-	Commission. These records are pre-decisional because
				product	they were prepared before the meeting occurred and final
				doctrine)	agency decisions were made on the issues discussed in the
					attachment.
				Exemption 6	
					The attachment is also from attorneys, and it provides legal
					advice.
					The attachment also reflects legal analysis and strategy
					prepared by ENF attorneys in connection with anticipated
					and ongoing litigation.
					SEC staff have a privacy interest in their email addresses
					and there is no public interest in knowing their contact
					information.

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Exemption 5The withheld email is intra-agency and consists of discussion about and a recommendation regarding processprocesslanguage used in a draft Commission order. The withheld email is deliberative because it reflects staff recommendations about language in a draft order. The email is pre-decisional because no final decision had been attorney work-made about the language in the order.	Exemption 6 The withheld screenshots of the order are deliberative because they reflect which portions and words (in highlighted text) the SEC staff made recommendations Exemption 7(C) about. The screenshots are pre-decisional because no final decision had been made about the language in the order	The withheld request for Commission action, associated memoranda, and draft Commission order are deliberative because they reflect staff's recommendations to the Commission concerning an ENF matter and the reasons for those recommendations. These attachments are predecisional because they were prepared before final agency decisions were made on the issues discussed in the attachments.	The email and attachments are also from attorneys, and they provide legal advice to the Commissioners. The email and attachments also reflect legal analysis and strategy prepared by ENF attorneys in connection in anticipation of litigation.	SEC staff have a privacy interest in their email addresses, and there is no public interest in knowing their contact information.	ENF staff have a privacy interest in not being associated with a law enforcement investigation, and the public interest in knowing this personal information is not outweighed by their privacy interests.
An email from Victor Suthammanont Exe about the language in a proposed (del Commission order was withheld. pro priv The three attachments to that email attc were also withheld. The attachments priv consist of two screenshot excerpts of attc a request for Commission action as	<u> </u>	The email addresses of SEC staff, as well as the names of certain ENF staff, were also withheld.			
Victor Suthammanont, Gary Gensler, Amanda Fischer					
April 30, 2024 (2:27 pm)					

FOR DISCUSSION PURPOSES ONLY January 7, 2025

the 1/7/2025 Release of Records Responsive to Narrowed Subpart 2¹ of FOIA Request No. 23-03269-FOIA in History Associates, Inc. v. SEC, 24-cv-1858 Preliminary Vaughn Index for the Securities and Exchange Commission's Withholdings from

	Document Date(s) and	Author(s)/	Description of Withheld	FOIA	Basis for
	Time(s)	Recipient(s)	Information/Document(s)	Exemption(s)	Withholding
ij	August 1, 2023	SEC Office of	A letter from OIA staff to FINMA was	Exemption 5	The withheld letter was written by Commission staff
		International Affairs	withheld.	(attorney work-	and contains information about the focus of a
		("OIA") staff, Swiss		product	Division of Enforcement ("ENF") investigation and a
		Financial Market		doctrine;	request for assistance in connection with that
		Supervisory Authority		deliberative	investigation.
		("FINMA")		process	
				privilege)	OIA staff sent this letter to FINMA at the request of
					ENF attorneys conducting the investigation. As the
					SEC conducts its investigations with an eye toward
					litigation, the letter was generated by the SEC in
					anticipation of litigation.
					The letter is also deliberative because it discusses
					Commission staff's considerations of what
					information may advance an ENF investigation. The
					letter is pre-decisional because no decisions had been
					made about the ongoing investigation.
					Disclosure of the information to FINMA did not waive
					any privileges or the application of Exemption 5
					because Commission staff were seeking assistance
					from another law enforcement agency, and the
					foreign agency was providing assistance similar to
					what Commission staff would do for information
					within the United States.

¹ Narrowed subpart 2 seeks all documents and communications sent by the SEC to third parties regarding Ethereum's shift to a proof-of-stake mechanism.

	Document Date(s) and	Author(s)/	Description of Withheld	FOIA Evernation(s)	Basis for	
2.	December 4, 2023 (8:22	ENF staff, Ethereum	In an email from ENF staff to	Exemption 6	SEC ENF staff and third party individuals have a	
	pm, 8:59 pm, 9:11 pm)		Ethereum in connection with the		privacy interest in their names, titles, and contact	
			Ethereum 2.0 investigation, and the	Exemption 7(C)	information, and there is no public interest in	
			attachment to that email, the names,		knowing their contact information.	
			titles, and contact information of ENF			
			staff were withheld. The name,		ENF staff and third-party individuals have a privacy	
			address, and contact information of a		interest in not being associated with a law	
			third-party individual were also		enforcement investigation, and the public interest in	
			withheld.		knowing this personal information is not outweighed	_
					by their privacy interests.	
					Dortions of the email and attachment have been	
					released.	
3.	December 6, 2023 (5:23	ENF staff, Jeffrey	In an email from ENF staff to Jeffrey	Exemption 6	SEC ENF staff and third party individuals have a	
	pm)	Alberts	Alberts in connection with the		privacy interest in their names, titles, and contact	
			Ethereum 2.0 investigation, and the	Exemption 7(C)	information, and there is no public interest in	
			attachment to that email, the names,		knowing their contact information.	
			titles, and contact information of ENF			
			staff were withheld. The name,		ENF staff and third-party individuals have a privacy	
			address, and contact information of a		interest in not being associated with a law	
			third-party individual were also		enforcement investigation, and the public interest in	
			withheld.		knowing this personal information is not outweighed	_
					by their privacy interests.	
					Portions of the email and attachment have been	
					released.	

	Document Date(s) and	Author(s)/	Description of Withheld	FOIA	Basis for	
1	Time(s)	Recipient(s)	Information/Document(s)	Exemption(s)	Withholding	
4.	January 11, 2024	OIA staff, FINMA	A letter from OIA staff to FINMA was	Exemption 5	The withheld letter was written by Commission staff	
			withheld.	(attorney work-	and contains information about the focus of an ENF	
				product	investigation and a request for assistance in	
				doctrine;	connection with that investigation.	
				deliberative		
				process	OIA staff sent this letter to FINMA at the request of	
				privilege)	ENF attorneys conducting the investigation. As the	
					SEC conducts its investigations with an eye toward	
					litigation, the letter was generated by the SEC in	
					anticipation of litigation.	
					The letter is also deliberative because it discusses	
					Commission staff's considerations of what	
					information may advance an ENF investigation. The	
					letter is pre-decisional because no decisions had been	_
					made about the ongoing investigation.	
					Disclosure of the information to FINMA did not waive	۵,
					any privileges or the application of Exemption 5	
					because Commission staff were seeking assistance	
					from another law enforcement agency, and the	
					foreign agency was providing assistance similar to	
					what Commission staff would do for information	
					within the United States.	
						1

	Document Date(s) and	Author(s)/	Description of Withheld	FOIA	Basis for
9.	February 23, 2024	OIA staff, Ontario	An email from OIA to the OSC was	Exemption 5	The withheld email was written by Commission staff
	(10:32 pm)	Securities Commission	withheld.	(attorney work-	and contains information about the focus of an ENF
		("osc")		product	investigation and a notice of outreach to an entity
				doctrine;	located in Canada as part of that investigation. OIA
				deliberative	staff sent this email to the OSC at the request of ENF
				process	attorneys conducting the investigation. As the SEC
				privilege)	conducts its investigations with an eye toward
					litigation, the email was generated by the SEC in
					anticipation of litigation.
					The email is also deliberative because it discusses
					Commission staff's considerations of what
					information may advance an ENF investigation. The
					email is pre-decisional because no decisions had been
					made about the ongoing investigation.
					Disclosure of the information to the OSC did not
					waive any privileges or the application of Exemption
					5 because Commission staff were seeking assistance
					from another law enforcement agency, and the
					agency was providing information similar to what
					Commission staff would provide to other agency staff
					within the United States with an interest in the
					information.

	Document Date(s) and	Author(s)/	Description of Withheld	FOIA	Basis for
	Time(s)	Recipient(s)	Information/Document(s)	Exemption(s)	Withholding
7.	February 26, 2024 (8:27	ENF staff, Simple Rules	In an email from ENF staff to Simple	Exemption 6	SEC ENF staff have a privacy interest in their names,
	pm)	.co	Rules Co. in connection with the		titles, and contact information, and there is no public
			Ethereum 2.0 investigation, and the	Exemption 7(C)	interest in knowing their contact information.
			attachment to that email, the names,		
			titles, and contact information of ENF		ENF staff have a privacy interest in not being
			staff were withheld.		associated with a law enforcement investigation, and
					the public interest in knowing this personal
					information is not outweighed by their privacy
					interests.
					Portions of the email and attachment have been
					released.
∞.	February 27, 2024 (6:58	ENF staff, Sigma Prime	In an email from ENF staff to Sigma	Exemption 6	SEC ENF staff have a privacy interest in their names,
	pm)		Prime in connection with the		titles, and contact information, and there is no public
			Ethereum 2.0 investigation, and the	Exemption 7(C)	interest in knowing their contact information.
			attachment to that email, the names,		
			titles, and contact information of ENF		ENF staff have a privacy interest in not being
			staff were withheld.		associated with a law enforcement investigation, and
					the public interest in knowing this personal
					information is not outweighed by their privacy
					interests.
					Portions of the email and attachment have been
					released.

	Document Date(s) and Time(s)	Author(s)/ Recipient(s)	Description of Withheld Information/Document(s)	FOIA Exemption(s)	Basis for Withholding
9.	February 27, 2024 (6:58 nm)	ENF staff, ChainSafe	In an email from ENF staff to ChainSafe in connection with the	Exemption 6	SEC ENF staff have a privacy interest in their names, titles, and contact information, and there is no public
			Ethereum 2.0 investigation, and the attachment to that email, the names,	Exemption 7(C)	interest in knowing their contact information.
			titles, and contact information of ENF staff were withheld.		ENF staff have a privacy interest in not being associated with a law enforcement investigation, and
					the public interest in knowing this personal information is not outweighed by their privacy
					interests.
					Portions of the email and attachment have been released.
10.	February 27, 2024 (11:21 pm)	ENF staff, Martin Kaplan	In an email from ENF staff to Martin Kaplan in connection with the	Exemption 6	SEC ENF staff have a privacy interest in their names, titles, and contact information, and there is no public
			Ethereum 2.0 investigation, and the attachment to that email, the names,	Exemption 7(C)	interest in knowing their contact information.
			titles, and contact information of ENF		ENF staff have a privacy interest in not being
			staff were withheld.		associated with a law enforcement investigation, and
					the public interest in knowing this personal
					information is not outweighed by their privacy
					interests.
					Portions of the email and attachment have been
					released.

	Document Date(s) and Time(s)	Author(s)/ Recipient(s)	Description of Withheld Information/Document(s)	FOIA Exemption(s)	Basis for Withholding
11.	February 27, 2024 (11:24 pm)	ENF staff, Martin Kaplan	In an email from ENF staff to Martin Kaplan in connection with the	Exemption 6	SEC ENF staff have a privacy interest in their names, titles, and contact information, and there is no public
			Ethereum 2.0 investigation, and the attachment to that email, the names,	Exemption 7(C)	interest in knowing their contact information.
			titles, and contact information of ENF staff were withheld.		ENF staff have a privacy interest in not being associated with a law enforcement investigation, and
					the public interest in knowing this personal
					information is not outweighed by their privacy
					interests.
					Portions of the email and attachment have been
					released.
12.	February 28, 2024 (9:20	ENF staff, Martin	In an email thread between ENF staff,	Exemption 6	SEC ENF staff have a privacy interest in their names,
	am), February 29, 2024	Kaplan, Donna	Martin Kaplan, and Donna Quartiero		titles, and contact information, and there is no public
	(5:00 pm)	Quartiero	in connection with the Ethereum 2.0	Exemption 7(C)	interest in knowing their contact information.
			investigation, and the attachments to		
			that thread, the names, titles, and		ENF staff have a privacy interest in not being
			contact information of ENF staff were		associated with a law enforcement investigation, and
			withheld.		the public interest in knowing this personal
					information is not outweighed by their privacy
					interests.
					Portions of the email thread and attachments have
					been released.

	1		
Basis for Withholding	The withheld letter was written by Commission staff and contains information about an ENF investigation in connection with ENF's request for assistance regarding that investigation. OIA staff sent the request for assistance to FINIMA at the request of ENF attorneys conducting the investigation. As the SEC conducts its investigations with an eye toward litigation, the letter was generated by the SEC in anticipation of litigation.	The letter is also deliberative because it discusses Commission staff's considerations of what information may advance an ENF investigation. The letter is pre-decisional because no decisions had been made about the ongoing investigation.	Disclosure of the information to FINMA did not waive any privileges or the application of Exemption 5 because Commission staff were seeking assistance from another law enforcement agency, and the foreign agency was providing assistance similar to what Commission staff would do for information within the United States.
FOIA Exemption(s)	Exemption 5 (attorney work- product doctrine; deliberative process privilege)		
Description of Withheld Information/Document(s)	A letter from OIA to FINMA was withheld.		
Author(s)/ Recipient(s)	OIA staff, FINMA		
Document Date(s) and Time(s)	April 18, 2024		
	13.		

	Document Date(s) and	Author(s)/	Description of Withheld	FOIA	Basis for	
	Time(s)	Recipient(s)	Information/Document(s)	Exemption(s)	Withholding	
14.	April 18, 2024	OIA staff, FINMA	A letter from OIA to FINMA was	Exemption 5	The withheld letter was written by Commission staff	
			withheld.	(attorney work-	and consists of responses to FINMA's questions in	
				product	connection with ENF's request for assistance	
				doctrine;	regarding an investigation.	
				deliberative		
				process	OIA staff sent the request for assistance to FINMA at	
				privilege)	the request of ENF attorneys conducting the	
					investigation. As the SEC conducts its investigations	
					with an eye toward litigation, the letter was	
					generated by the SEC in anticipation of litigation.	
					The letter is also deliberative because it discusses	
					Commission staff's considerations of what	
					information may advance an ENF investigation. The	
					letter is pre-decisional because no decisions had been	تِ
					made about the ongoing investigation.	
					Disclosure of the information to FINMA did not waive	a
					any privileges or the application of Exemption 5	
					because Commission staff were seeking assistance	
					from another law enforcement agency, and the	
					foreign agency was providing assistance similar to	
					what Commission staff would do for information	
					within the United States.	

Author(s)/ Recipient(s) ENF staff, various third- party subpoena recipients

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Exhibit C



UNITED STATES SECURITIES AND EXCHANGE COMMISSION

STATION PLACE 100 F STREET, NE WASHINGTON, DC 20549-2465

Office of FOIA Services

January 28, 2025

Ms. Jessica Albert and Ms. Eva Laverty-Wilson History Associates Incorporated 300 N. Stonestreet Avenue Rockville, MD 20850

> Re: Freedom of Information Act (FOIA), 5 U.S.C. § 552 Request Nos. 24-00020-LITG (23-03120-FOIA, 23-03128-FOIA, and 23-03269-FOIA)

Dear Ms. Albert and Ms. Laverty-Wilson:

This letter is a partial response to your FOIA Request Nos. 23-03128-FOIA, 23-03120-FOIA, and 23-03269-FOIA. FOIA Request Nos. 23-03128-FOIA and 23-03120-FOIA, dated and received in this office on August 8, 2023, seek "all investigative files and any other factual documents received by the Commission, any Commissioner, and/or any Commission Staff or otherwise in the Commission Staff's custody or control, or any internal or external communications reflecting or concerning any investigations by the Commission or Commission Staff, of" Enigma MPC (Request No. 23-03120-FOIA) and Zachary Coburn (Request No. 23-03128-FOIA). FOIA Request No. 23-03269-FOIA, dated and received in this office on July 28, 2023, seeks "all records concerning Ethereum's shift to a proof-of-stake consensus mechanism that have been created since January 1, 2018."

Reference is made to our interim response to these requests dated January 7, 2025. Additional reference is made to our letter dated October 5, 2023, regarding FOIA Request No. 23-03120-FOIA in which we granted your request in part and released to you three pages of records, in part, and informed you that we are withholding additional records that may be responsive to the request pursuant to FOIA Exemption 7(A). Additional reference is made to our letter dated August 11, 2023, regarding FOIA Request No. 23-03128-FOIA in which we informed you that we are withholding responsive records pursuant to FOIA Exemption 7(A). Additional reference is made to our letter dated October 10, 2023, regarding FOIA Request No. 23-03269-FOIA in which we informed you that we could not locate any responsive records, as

Ms. Jessica Albert Ms. Eva Laverty-Wilson January 28, 2025 Page Two 24-00020-LITG

well as the Office of the General Counsel's subsequent appeal decision dated February 6, 2024, that responsive records are protected from disclosure pursuant to FOIA Exemption 7(A).

Your counsel and the SEC's counsel agreed that the SEC will process two narrowed subparts of FOIA Request No. 23-03269-FOIA: (1) all documents and communications that SEC Chair Gary Gensler sent, received, or considered concerning Ethereum's shift to a proof-of-stake mechanism, and (2) all documents and communications sent by the SEC to third parties regarding Ethereum's shift to a proof-of-stake mechanism. As referenced above, on January 7, 2025, we issued a partial response to the two narrowed subparts.

We are releasing to you one additional page in response to narrowed subpart 1, with the exception of certain information that has been withheld pursuant to 5 U.S.C. $\S\S$ 552(b)(5) and (6) for the following reasons:

- FOIA Exemption 5 protects certain information prepared in anticipation of litigation, forms an integral part of the pre-decisional process, and/or contains advice given to the Commission or senior staff by the SEC's attorneys. Therefore, it is protected from release by the attorney work-product doctrine and/or the deliberative process and/or attorney-client privileges embodied in Exemption 5; and
- FOIA Exemption 6 protects certain information the release of which would constitute a clearly unwarranted invasion of personal privacy. We have withheld the email addresses of SEC staff as well as the name of a third-party individual.

We are also withholding in full 13 pages of records in response to narrowed subpart 1 pursuant to 5 U.S.C. §§ 552(b)(4) and (5) for the above and below reasons:

Ms. Jessica Albert
Ms. Eva Laverty-Wilson
January 28, 2025
Page Three

24-00020-LITG

• FOIA Exemption 4 protects confidential commercial or financial information that is customarily and actually treated as private by its owner and provided to the government under an assurance of privacy.

Additionally, the enclosed 289 pages of records are being provided in response to narrowed subpart 2, with the exception of certain information that has been withheld pursuant to 5 U.S.C. §§ 552(b)(5) and (6) for the above reasons. We are also withholding in full 6,940 pages of records pursuant to 5 U.S.C. §§ 552(b)(5) and (6) for the above reasons.

Please be advised that we have considered the foreseeable harm standard when reviewing records and applying FOIA exemptions.

I am the deciding official with regard to this adverse determination. You have the right to appeal my decision to the SEC's General Counsel under 5 U.S.C. § 552(a)(6), 17 CFR § 200.80(f)(1). The appeal must be received within ninety (90) calendar days of the date of this adverse decision. Your appeal must be in writing, clearly marked "Freedom of Information Act Appeal," and should identify the requested records. The appeal may include facts and authorities you consider appropriate.

You may file your appeal by completing the online Appeal form located at https://www.sec.gov/forms/request appeal, or mail your appeal to the Office of FOIA Services of the Securities and Exchange Commission located at Station Place, 100 F Street NE, Mail Stop 2465, Washington, D.C. 20549, or deliver it to Room 1120 at that address.

If you have any questions, please contact Alexandra Verdi at verdim@sec.gov. You may also contact me at foiapa@sec.gov or (202) 551-7900. You may also contact the SEC's FOIA Public Service Center at foiapa@sec.gov or (202) 551-7900. For more

Ms. Jessica Albert Ms. Eva Laverty-Wilson January 28, 2025 Page Four 24-00020-LITG

information about the FOIA Public Service Center and other options available to you please see the attached addendum.

Sincerely,

Matthew Hurd Attorney Advisor

Enclosure

ADDENDUM

For further assistance you can contact a SEC FOIA Public Liaison by calling (202) 551-7900 or visiting https://www.sec.gov/oso/help/foia-contact.html.

SEC FOIA Public Liaisons are supervisory staff within the Office of FOIA Services. They can assist FOIA requesters with general questions or concerns about the SEC's FOIA process or about the processing of their specific request.

In addition, you may also contact the Office of Government Information Services (OGIS) at the National Archives and Records Administration to inquire about the FOIA dispute resolution services it offers. OGIS can be reached at 1-877-684-6448 or via e-mail at ogis@nara.gov. Information concerning services offered by OGIS can be found at their website at Archives.gov. Note that contacting the FOIA Public Liaison or OGIS does not stop the 90-day appeal clock and is not a substitute for filing an administrative appeal.

To: Hirsch, David L ^{(b)(6)} DSEC GOVI: Gaw, Michael J (b)(6) DSEC GOVI From: Gensler, Gary Sent: 2023-03-10T19:55:18Z Subject: FW: (b)(5) Sent: 2023-03-10T49:55:18Z	
Received: 2023-03-10T19:55:18Z (b)(5) Paper.docx	
FYI	
From: Szczepanik, Valerie (b)(6)	
Sent: Friday, March 10, 2023 10:31 AM	
To: Gensler, Gary (b)(6) DSEC.GOV>	
Cc: Frayer, Corey (b)(6)	
Good morning Gary-	
I understand you have been reading up on $^{(b)(5)}$ I found this research paper (sent to the FinHub from an individual named $^{(b)(6)}$	
(b)(6) to be quite interesting in several respects. The paper points out that (b)(5)	
(b)(5)	
(b)(5) I'm just passing this along in case you find it useful. Best,	
Val	

Zuppone, Michael [Michael Zuppone@paulhastings.com] Starr, Amy ase 1.24-cv-01858-ACR Document 26-3 To: Filed 02/04/25 Page 8 of 156 From:

2020-01-23T23:02:17Z Sent:

Re: Proof of Stake Alliance

Subject: Received: 2020-01-23T23:02:17Z

Thank you Michael. We would be happy to meet with you and the group to discuss the issues you see and the proof of stake consensus mechanism. If you could give me some dates over the next couple of weeks we'll be able to set up a meeting with FinHub staff from all relevant divisions and offices. We very much appreciate your reaching out to discuss these issues.

Regards Amy

On Jan 23, 2020, at 5:38 PM, Zuppone, Michael wrote:

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Amy

Thanks for the follow up. As indicated below, the proof of stake consensus mechanism is an emerging consensus mechanism that adherents believe will replace the Bitcoin type proof of work (PoW) consensus mechanism. For example, Ethereum is in the midst of changing to PoS. The alliance members are desirous of getting out in front of regulatory compliance concerns as PoS service providers become a mainstream part of the digital asset landscape enabling the native blockchains to operate with a dramatically reduced carbon footprint in comparison to PoW networks.

The alliance is desirous of obtaining definitive guidance concerning the treatment of staking as a service (StaaS); whether that takes the form of a no action letter or industry wide interpretative guidance, remains to be addressed as part of the dialogue with the Staff. Obviously, a reaction to the legal analysis contained in the White Paper would be of great benefit. The alliance members can take the opportunity to educate the Staff about proof of stake generally and how digital asset holders stake their digital assets with the benefit of the services of a StaaS service provider. We believe a meeting with the Staff would be productive for both the Staff and POSA.

POSA's representatives recently have been made their way to DC on a number of occasions to meet with Congressional staffers, members of Congress and the IRS and would like to meet as soon as practicable with the Staff. Obviously, I have educated them to the realities, i.e. the Staff is has a lot on its plate. So with that in mind, if you can find out what is achievable at your end, I can report back to POSA.

Thanks again Michael

From: Starr, Amy

Sent: Tuesday, January 21, 2020 10:15 AM

To: Zuppone, Michael

Subject: [EXT] RE: Proof of Stake Alliance

Michael – thanks. I have sent to the folks here. What are you thinking in terms of timing for a meeting and the purpose of the meeting? I'll be the coordinator. Thanks again.

Amy

From: Zuppone, Michael < Michael Zuppone@paulhastings.com >

Sent: Tuesday, January 21, 2020 9:52 AM To: Starr, Amy(b)(6) SEC.GOV> Subject: RE: Proof of Stake Alliance

> CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

I trust is well. Do you know if the Proof of Stake Alliance's outreach to the Staff has been assigned to anyone. I am looking to reach out and follow up in arranging a meeting with the alliance's representatives and the Staff.

Regards

Michael Zuppone	21:24-cv-01858-ACR Docum	ent 26-3	Filed 02/04/25	Page 9 of 156
From: Zuppone, N	lichael	CH 20 0	1 1100 02/0 1/20	1 age 0 01 100
Sent: Friday, January 10, 2				
To: Amy Starr (b)(6) @SE(C.GOV) (b)(6) SEC.GOV>			
Subject: RE: Proof of Stake	Alliance			
Amy				
I trust the new year	ar is starting off as anticipated. I subm	nitted the whi	te paper through th	e FinHub portal. Please find
attached a copy fo	or your information. Our client looks f	orward to en	gaging with the Staf	f.
Regards				
Michael Zuppone				
From: Zuppone, N	lichael			
Sent: Tuesday, December	17, 2019 1:16 PM			
To: Amy Starr (b)(6) @SEC	C.GOV) (b)(6) DSEC.GOV>			
Subject: Proof of Stake All	iance			
Amy				
and the second second	nd this holiday season is proving to be	a joyous one	L.	
	Proof of Stake Alliance ("POSA"), an			bers include the leading
	ckchain networks that are built on the	(10)		A 1
	us mechanism that is environmentally			
	Proof of Work networks predominat	(7)		50
	and Comment of the Co	and the same of the same of the same of		Treffcies, which as you know
	ial energy with the operation of their			AND THE RESERVE OF THE PARTY OF
	a white paper that addresses our an	A STATE OF THE PARTY OF THE PAR	The second secon	
submit it the Staff	as a precursor to future dialogue. Sho	ould the white	e paper be submitte	ed to someone assigned to
FinHub? I am hopi	ng you can provide some direction as	to the appro	priate person to rec	eive the white paper.
Regards				
Michael Zuppone				
Transition before the Committee of the				
V-				
10				
	Michael Zuppone Partner, Corporat			
	Paul Hastings LLP 200 Park Avenue, I			
	Fax: +1.212.230.7752 Mobile: (b)(6)	mi	ichaelzuppone@paulh	nastings.com
	http://www.paulhastings.com			
****	*************			
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To: Zuppone Michael Zuppone@paulhastings.com From: Starr, Amy ase 1:24-cv-01858-ACR Document 26-3 Filed 02/04/25 Page 10 of 156

Sent: 2020-01-24T22:44:19Z Subject: RE: Proof of Stake Alliance Received: 2020-01-24T22:44:19Z

Received: 2020-01-24T22:44:19Z

Let me check on my end and I will get back with you (likely Monday). Amy

From: Zuppone, Michael

Sent: Friday, January 24, 2020 5:41 PM

To: Starr, Amy

Subject: RE: Proof of Stake Alliance

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Amy, Evan Weiss, who leads the alliance, has surfaced February 6th, 7th, 10th and 12th as proposed dates. Let us know if any of these work at your end.

Regards Mike

From: Starr, Amy (b)(6) DSEC.GOV>
Sent: Thursday, January 23, 2020 6:02 PM

To: Zuppone, Michael < Michael Zuppone@paulhastings.com >

Subject: [EXT] Re: Proof of Stake Alliance

Thank you Michael. We would be happy to meet with you and the group to discuss the issues you see and the proof of stake consensus mechanism. If you could give me some dates over the next couple of weeks we'll be able to set up a meeting with FinHub staff from all relevant divisions and offices. We very much appreciate your reaching out to discuss these issues.

Regards Amy

On Jan 23, 2020, at 5:38 PM, Zuppone, Michael < <u>Michael Zuppone@paulhastings.com</u> > wrote:

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Amy

Thanks for the follow up. As indicated below, the proof of stake consensus mechanism is an emerging consensus mechanism that adherents believe will replace the Bitcoin type proof of work (PoW) consensus mechanism. For example, Ethereum is in the midst of changing to PoS. The alliance members are desirous of getting out in front of regulatory compliance concerns as PoS service providers become a mainstream part of the digital asset landscape enabling the native blockchains to operate with a dramatically reduced carbon footprint in comparison to PoW networks.

The alliance is desirous of obtaining definitive guidance concerning the treatment of staking as a service (StaaS); whether that takes the form of a no action letter or industry wide interpretative guidance, remains to be addressed as part of the dialogue with the Staff. Obviously, a reaction to the legal analysis contained in the White Paper would be of great benefit. The alliance members can take the opportunity to educate the Staff about proof of stake generally and how digital asset holders stake their digital assets with the benefit of the services of a StaaS service provider. We believe a meeting with the Staff would be productive for both the Staff and POSA.

POSA's representatives recently have been made their way to DC on a number of occasions to meet with Congressional staffers, members of Congress and the IRS and would like to meet as soon as practicable with the Staff. Obviously, I have educated them to the realities, i.e. the Staff is has a lot on its plate. So with that in mind, if you can find out what is achievable at your end, I can report back to POSA.

Thanks again Michael

From: Starr, Amy (b)(6) DSEC.GOV>
Sent: Tuesday, January 21, 2020 10:15 AM

To: Zuppone, Michael < Michael Zuppone@paulhastings.com >

Subject: [EXT] RE: Proof of Stake Alliance

Michael – thanks. I have sent to the folks here. What are you thinking in terms of timing for a meeting and the purpose of the meeting? I'll be the coordinator. Thanks again.

my Case 1:24-cv-01858-ACR Document 26-3 Filed 02/04/25 Page 11 of 156

From: Zuppone, Michael < Michael Zuppone@paulhastings.com >

Sent: Tuesday, January 21, 2020 9:52 AM

To: Starr, Amy (b)(6) DSEC.GOV >

Subject: RE: Proof of Stake Alliance

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Amy

I trust is well. Do you know if the Proof of Stake Alliance's outreach to the Staff has been assigned to anyone. I am looking to reach out and follow up in arranging a meeting with the alliance's representatives and the Staff.

Regards

Michael Zuppone

From: Zuppone, Michael

Sent: Friday, January 10, 2020 11:51 PM

To: Amy Starr (b)(6) DSEC.GOV) (b)(6) DSEC.GOV>

Subject: RE: Proof of Stake Alliance

Amy

I trust the new year is starting off as anticipated. I submitted the white paper through the FinHub portal. Please find attached a copy for your information. Our client looks forward to engaging with the Staff.

Regards

Michael Zuppone

From: Zuppone, Michael

Sent: Tuesday, December 17, 2019 1:16 PM

To: Amy Starr (b)(6) DSEC.GOV) (b)(6) DSEC.GOV>

Subject: Proof of Stake Alliance

Amy

I trust all is well and this holiday season is proving to be a joyous one.

We represent the **Proof of Stake Alliance** ("POSA"), an industry association whose members include the leading proponents of blockchain networks that are built on the **Proof of Stake** ("PoS") consensus mechanism. PoS is an emerging consensus mechanism that is environmentally friendly and has a dramatically reduced carbon footprint in comparison to the Proof of Work networks predominated by Bitcoin and other cryptocurrencies, which as you know consume substantial energy with the operation of their consensus mechanism.

We have prepared a white paper that addresses our analysis of "staking" under the Securities Act and would like to submit it the Staff as a precursor to future dialogue. Should the white paper be submitted to someone assigned to FinHub? I am hoping you can provide some direction as to the appropriate person to receive the white paper.

Regards

Michael Zuppone

Michael Zuppone | Partner, Corporate Department

Paul Hastings LLP | 200 Park Avenue, New York, NY 10166 | Direct: +1.212.318.6906 |

Main: +1.212.318.6000 | Fax: +1.212.230.7752 | Mobile: (b)(6)

michaelzuppone@paulhastings.com | http://www.paulhastings.com

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Zuppone Michael Zuppone paulhastings.com Starr, Amy ase 1:24-cv-01858-ACR Document 26-3 Filed 02/04/25 To: Page 13 of 156

From:

2020-01-25T00:02:42Z Subject: Re: Proof of Stake Alliance

Received: 2020-01-25T00:02:42Z

Michael. I actually was able to get availability. Would we be able to have the meeting in the 12th after 2:30? That way Val would be attending one person. Let me know and we can get it set. Thanks. Amy

Sent from my iPhone

Sent:

On Jan 24, 2020, at 5:40 PM, Zuppone, Michael wrote:

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Regards Mike

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Sent: Thursday, January 23, 2020 6:02 PM

To: Zuppone, Michael

Subject: [EXT] Re: Proof of Stake Alliance

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To: Amy Starr $^{(b)(6)}$ SEC.GOV $^{(b)(6)}$ SEC.GOV $^{(b)(6)}$

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To: Zuppone Michael Zuppone paulhastings.com Starr, Amy ase 1:24-cv-01858-ACR Document 26-3 Filed 02/04/25 Page 16 of 156

Sent: 2020-01-27T17:44:26Z
Subject: RE: Proof of Stake Alliance
Received: 2020-01-27T17:44:26Z

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From: Zuppone, Michael

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To: Zuppone Michael Zuppone paulhastings.com Starr, Amy ase 1:24-cv-01858-ACR Document 26-3 Filed 02/04/25 Page 19 of 156

Sent: 2020-02-10T17:09:35Z Subject: Re: Proof of Stake Alliance

Received: 2020-02-10T17:09:36Z

That's great. We will set up a webex that will be a videoconference

Sent from my iPhone

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Evan Weiss

Dina Ellis Rochkind

Michael Zuppone

POSA would like following representatives of alliance member, Polychain Capital, to participate by video conference if

the that can be arranged:

Matt Perona Rob Witoff

Ruby G. Sekhon

I know from prior meetings with the Staff that the Staff has access to WebEx conferencing program. If your

conference room can accommodate WebEx, we can circulate a meeting invite. Let me know what works at your end.

Regards Mike

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Zuppone Michael Michael Zuppone (Daulhastings.com) Starr, Amy ase 1.24-cv-01858-ACR Document 26-3 To: Filed 02/04/25 Page 23 of 156 From: 2020-02-11T19:32:00Z Sent: RE: Proof of Stake Alliance Subject: Received: 2020-02-11T19:32:01Z Excellent – your names are with security so you should have no problem when you arrive. From: Zuppone, Michael Sent: Tuesday, February 11, 2020 2:30 PM To: Starr, Amy Subject: RE: Proof of Stake Alliance CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe. Amy Thank you. I will pass this along to the Polychain Capital team. We'll see you tomorrow. Mike From: Starr, Amy (b)(6) DSEC.GOV> Sent: Tuesday, February 11, 2020 2:28 PM To: Zuppone, Michael < Michael Zuppone@paulhastings.com > Subject: [EXT] RE: Proof of Stake Alliance Michael – here is the webex information and dial in. We find it easier if we set it up so we can get into the system. Hope that works for you all. Amy (b)(6)Access Information Meeting Number: (b)(6) Meeting Password: (This meeting does not require a password.) **Audio Connection** (b)(6)(US/Canada) (US/Canada Toll-free) From: Zuppone, Michael < Michael Zuppone@paulhastings.com > Sent: Monday, February 10, 2020 11:21 AM To: Starr, Amy (b)(6) PSEC.GOV> Subject: RE: Proof of Stake Alliance CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe. Amy We are looking forward to the meeting later this week. I set forth below a list of attendees who will attend in person. **Evan Weiss** Dina Ellis Rochkind Michael Zuppone POSA would like following representatives of alliance member, Polychain Capital, to participate by video conference if the that can be arranged: Matt Perona Rob Witoff Ruby G. Sekhon I know from prior meetings with the Staff that the Staff has access to WebEx conferencing program. If your conference room can accommodate WebEx, we can circulate a meeting invite. Let me know what works at your end. Regards Mike From: Starr, Amy (b)(6) DSEC.GOV> Sent: Monday, January 27, 2020 12:44 PM To: Zuppone, Michael < Michael Zuppone@paulhastings.com >

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before the meating: Thanks 800 Document 26-3 Filed 02/04/25 Page 24 of 156

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From: Zuppone, Michael Sent: Friday, January 10, 2020 11:51 PM

To: Amy Starr (b)(6) DSEC.GOV (b)(6) DSEC.GOV \Rightarrow

Subject: RE: Proof of Stake Alliance

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Michael Zuppone

Michael Zuppone | Partner, Corporate Department

Paul Hastings LLP | 200 Park Avenue, New York, NY 10166 | Direct: +1.212.318.6906 |

Main: +1.212.318.6000 | Fax: +1.212.230.7752 | Mobile: (b)(6)

michaelzuppone@paulhastings.com | http://www.paulhastings.com

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Zuppone Michael Michael Zuppone (Paulhastings.com) Starr, Amy ase 1.24-cv-01858-ACR Document 26-3 To: Filed 02/04/25 Page 27 of 156 From: 2020-02-11T19:27:52Z Sent: Subject: RE: Proof of Stake Alliance Received: 2020-02-11T19:27:52Z Michael - here is the webex information and dial in. We find it easier if we set it up so we can get into the system. Hope that works for you all. Amy Access Information Meeting Number: (b)(6) Meeting Password: (This meeting does not require a password.) **Audio Connection** (b)(6)(US/Canada) (US/Canada Toll-free) From: Zuppone, Michael Sent: Monday, February 10, 2020 11:21 AM To: Starr, Amy Subject: RE: Proof of Stake Alliance CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe. Amy We are looking forward to the meeting later this week. I set forth below a list of attendees who will attend in person. **Evan Weiss** Dina Ellis Rochkind Michael Zuppone POSA would like following representatives of alliance member, Polychain Capital, to participate by video conference if the that can be arranged: Matt Perona Rob Witoff Ruby G. Sekhon I know from prior meetings with the Staff that the Staff has access to WebEx conferencing program. If your conference room can accommodate WebEx, we can circulate a meeting invite. Let me know what works at your end. Regards Mike From: Starr, Amy (b)(6) DSEC.GOV> Sent: Monday, January 27, 2020 12:44 PM To: Zuppone, Michael < Michael Zuppone@paulhastings.com > Subject: [EXT] RE: Proof of Stake Alliance Excellent – we're set on our end as well. Just let me know the list hopefully a couple of days before the meeting. Thanks. Amy From: Zuppone, Michael < Michael Zuppone@paulhastings.com > Sent: Monday, January 27, 2020 11:08 AM To: Starr, Amy (b)(6) SEC.GOV> Subject: RE: Proof of Stake Alliance CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe. Amy I have confirmed 2:30 pm on February 12th. I will provide a list of attendees in addition to Evan Weiss and myself in a follow up email. We are looking forward to the meeting. Thanks again. Mike From: Starr, Amy (b)(6) @SEC.GOV> Sent: Friday, January 24, 2020 7:03 PM To: Zuppone, Michael < Michael Zuppone@paulhastings.com >

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From: Starr, Amy (b)(6) SEC.GOV>
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From-Zuppone Michael Suppene @paulhastings.com iled 02/04/25 Page 29 of 156

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Zuppone Michael Michael Zuppone @paulhastings.com Starr, Amy ase 1:24-cv-01858-ACR Document 26-3 Filed 02/04/25 To: Page 31 of 156 From: 2020-02-12T17:59:30Z Sent: Re: Proof of Stake Alliance Subject: Received: 2020-02-12T17:59:31Z Excellent. I will circulate to the folks at the meeting. Will you be discussing orally or through the Webex? Sent from my iPhone On Feb 12, 2020, at 12:56 PM, Zuppone, Michael wrote: CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe. Amy Evan Weiss suggested I email over the presentation that we'll review and discuss today. Please see attached. We will see you at 2:30 pm. Regards Mike From: Starr, Amy Sent: Tuesday, February 11, 2020 2:32 PM To: Zuppone, Michael Subject: [EXT] RE: Proof of Stake Alliance Excellent – your names are with security so you should have no problem when you arrive. Amy From: Zuppone, Michael < Michael Zuppone@paulhastings.com > Sent: Tuesday, February 11, 2020 2:30 PM To: Starr, Amy (b)(6) @SEC.GOV> Subject: RE: Proof of Stake Alliance CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe. Amy Thank you. I will pass this along to the Polychain Capital team. We'll see you tomorrow.

Regards Mike

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Sent: Tuesday, February 11, 2020 2:28 PM

To: Zuppone, Michael < Michael Zuppone@paulhastings.com >

Subject: [EXT] RE: Proof of Stake Alliance

Michael – here is the webex information and dial in. We find it easier if we set it up so we can get into the system. Hope that works for you all.

Amy

(b)(6)

Access Information

Meeting Number (b)(6)

Meeting Password: (This meeting does not require a password.)

Audio Connection

(b)(6)

(US/Canada)

(US/Canada Toll-free)

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To: Workie, Haimera (b)(6) pfinra.org) CC: Oh, Michael (b)(6) 24 eV pfinra.org) Document 26-3 Filed 02/04/25 Page 36 of 156 From: Szczepanik, Valerie Sent: 2022-10-06T14:13:15Z Subject: RE: (b)(5) Received: 2022-10-06T14:13:15Z	
Hi Haime – no one has raised anything specific with me, but we will be introducing you to the Exams delegate to FinHub on the cases, Val	all.
From: Workie, Haimera (b)(6) finra.org>	
Sent: Tuesday, October 4, 2022 1:06 PM	
To: Szczepanik, Valerie (b)(6) SEC.GOV>	
Cc: Oh, Michael (b)(6) Pfinra.org>	
Subject: RE: (b)(5)	
CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the	e
sender and know the content is safe.	
Val: Below are some potential topics for our meeting on Thursday. Please let us know if there are any items you would like to add	d
from the SEC side or if you have questions about these suggested topics.	
(b)(5)	
Original Appointment	
From: Szczepanik, Valerie (b)(6) @SEC.GOV>	
Sent: Monday, June 6, 2022 7:58 PM	
To: Szczepanik, Valerie; #TM Counsels; McGowan, Thomas K.; Roy, Randall W.; Lombardo, Raymond A.; Kostyukovsky, Nina; Jacob	,
Abraham; Fox, Timothy C.; Gaw, Michael J.; Rutkowski, Joanne; Hill, Brandon; Russell, Emily Westerberg; Ryan, Devin; McGee,	
Carol; White, Timothy; Dhingra, Geeta; Starr, Amy; Giles, James; Aman, David; Chapman, Dave; Dailey, Kris; Dalal, Kosha; Foster,	
Cindy; Mahoney, Kathryn E; Oh, Michael; Panetta, Yvette; Stralka, Jason; Tominey, Patrick; Turner, Jante; Workie, Haimera; Colby	/,
Robert; Meisel, Omer; Bayatmakou, Brita; Wollman, Bill	1550
Subject: (b)(5)	
When: Thursday, October 6, 2022 11:30 AM-12:00 PM (UTC-05:00) Eastern Time (US & Canada).	
Where:	
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Do not delete or change any of the following text	
When it's time inin your Wahay meeting have	
When it's time, join your Webex meeting here.	
Join meeting [secgov.webex.com]	
More ways to join:	
Join from the meeting link	
(b)(6)	

Join by meeting number
Meeting number (access code): (b)(6)
Meeting password: ((b)(6) from phones and video systems)
Tap to join from a mobile device (attendees only)
US Toll
Some mobile devices may ask attendees to enter a numeric meeting password.
Join by phone USA Toll 2 US Toll Global call-in numbers [secgov.webex.com]
Join from a video system or application Dial (b)(6) secgov.webex.com
Join using Microsoft Lync or Microsoft Skype for Business
Dial (b)(6) @lync.webex.com
If you are a host, click here (b)(6) o view host information.
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To: Bo Howell[bo@fintechlegal.io] From: Foor, Jeffrey R. 1:24-cv-01858-ACR Document 26-3 Filed 02/04/25 Page 38 of 156

Sent: 2022-07-25T15:08:10Z

Subject: Re: IDX Risk-Managed Ethereum Strategy Fund

Received: 2022-07-25T15:08:10Z

Hi Bo,

I am out of the office this morning. I will work out a time for us to speak this week.

Jeff

On Jul 22, 2022, at 2:11 PM, Bo Howell <bo@fintechlegal.io> wrote:

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Good afternoon, Jeff. Do you have time to connect today or early next week about the IDX Ethereum Fund filing? There's more evidence suggesting the merge is going to happen in September, and I want to confirm if the staff's position on Ethereum funds has changed since we last talked.

From: Bo Howell

Sent: Friday, March 18, 2022 5:49 PM

To:(b)(6) Dsec.gov

Subject: IDX Risk-Managed Ethereum Strategy Fund

Importance: High

Jeff,

The Ethereum Foundation has announced the merge between the Mainnet and the Beacon Chain (i.e., conversion to proof-of-stake system). The merge is set to a specific block (within the blockchain) at which point the conversion from PoW to PoS will occur. The merge should occur sometime in June. The penultimate upgrade successfully occurred last week which was the launch of the "Kiln" testnet which is the final testing phase before the ultimate "merge". Kiln is a PoW testnet that emulates the Ethereum network's operational environment and runs parallel to the Beacon Chain (which was the first major PoS component of Ethereum 2.0 -now called the consensus layer). Currently, over 10 million ETH are staked on the Beacon Chain. A successful launch on Kiln virtually guarantees a successful "merge" (or "upgrade") in June 2022.

I know one of the staff's concerns was the upcoming merge. Given that it is scheduled to occur and no additional material upgrade is expected before the merge, we'd like to begin the filing process for the IDX Risk-Managed Ethereum Strategy Fund. We be willing to set an effective date for July 1 to (i) give the staff plenty of time to work with us on the filing and its disclosure and (ii) ensure that there are no technical issues related to the merge. Can you discuss the proposed filing with your colleagues and confirm if we can submit the 485A?



 From:
 Szczepanik, Valerie

 Sent:
 2023-09-07T12:50:14Z

 Subject:
 IOSCO DeFi Report issued

 Received:
 2023-09-07T12:50:14Z

IOSCOPD744.pdf

Policy Recommendations for Decentralized Finance (DeFi) Consultation Report



THE BOARD OF THE INTERNATIONAL ORGANIZATION OF SECURITIES COMMISSIONS

CR/04/2023	September 2023
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This paper is for public consultation purposes only. It has not been approved for any other purpose by the IOSCO Board or any of its members.

Copies of publications are available from: The International Organization of Securities Commissions website: <u>www.iosco.org</u>

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The International Organization of Securities Commissions (IOSCO) has published this Consultation Report with the aim of finalising IOSCO's policy recommendations to address market integrity and investor protection issues in decentralized finance (DeFi) by the end of 2023.¹ In line with IOSCO's established approach for securities regulation, the Policy Recommendations for DeFi² are addressed to relevant authorities and look to support jurisdictions seeking to establish compliant markets in the most effective way possible.

Feedback to the Consultation Process

IOSCO welcomes input from all stakeholders as part of this consultation process. Please submit consultation responses to deficonsultation@iosco.org on or before 19 October 2023.

Your comment letter should indicate prominently that it is a *Public Comment on IOSCO's Consultation Report on Policy Recommendations for Decentralized Finance (DeFi)*. All comments received will be made available publicly unless anonymity is specifically requested. Comments will be converted to PDF format and posted on the IOSCO website.

Following the public consultation period, IOSCO aims to finalize the DeFi recommendations and publish a final report around the end of 2023, in accordance with its Crypto-Asset Roadmap of July 2022, and in conjunction with its CDA recommendations.

⁻

The DeFi Working Group is led by staff from the United States Securities and Exchange Commission, with members from the staff of the Australian Securities and Investments Commission; Securities Commission of The Bahamas; European Securities and Markets Authority; French Autorité des Marchés Financiers; Hong Kong Securities and Futures Commission; Central Bank of Ireland; Italian Commissione Nazionale per le Società e la Borsa; Financial Services Commission/Financial Supervisory Service of the Republic of Korea; Mauritius Financial Services Commission; Ontario Securities Commission; Quebec Autorité des Marchés Financiers; Monetary Authority of Singapore; Comisión Nacional del Mercado de Valores of Spain; Financial Conduct Authority of the United Kingdom; and the United States Commodity Futures Trading Commission.

The Policy Recommendations in this Consultation Report are focused on decentralized finance (DeFi). IOSCO has separately consulted on issues related to Crypto and Digital Asset Markets more generally. See IOSCO, CONSULTATION REPORT ON POLICY RECOMMENDATIONS FOR CRYPTO AND DIGITAL ASSET MARKETS (May 2023), available at

https://www.iosco.org/library/pubdocs/pdf/IOSCOPD734.pdf.

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EXECUTIVE SUMMARY

Document 26-3

DeFi commonly refers to financial products, services, arrangements, and activities that use distributed ledger or blockchain technologies (DLT), including self-executing code referred to as *smart contracts*. DeFi aims to disintermediate and decentralize legacy ecosystems by eliminating the need for some traditional financial intermediaries and centralized institutions, and by enabling certain direct investment activities.³ DeFi is an important, evolving, and expanding technological innovation. The use of DLT may have the potential to foster financial innovation, increase efficiencies, and improve access to financial products, services, and activities. Proposed use cases for DLT include those relating to primary market issuance, secondary market trading, asset servicing and lifecycle management. While IOSCO encourages responsible innovation that benefits investors and the markets, it has prioritized the need to focus on analyzing and responding to market integrity and investor protection concerns, including those emerging from technological developments in DeFi.

This consultation report proposes nine policy recommendations that IOSCO plans to finalize by the end of 2023 to address market integrity and investor protection concerns arising from DeFi by supporting greater consistency of regulatory frameworks and oversight in member jurisdictions. They are complementary to the Policy Recommendations for Crypto and Digital Assets (CDA) Markets⁴ issued for consultation in May 2023. The two sets of IOSCO recommendations have been developed in accordance with IOSCO's Crypto-Asset Roadmap (Roadmap) published in July 2022.⁵

The proposed recommendations follow a 'lifecycle' approach in addressing the key risks identified in this report. They are principles-based and outcomes-focused, and aimed at DeFi products, services, arrangements, and activities by applying IOSCO's widely accepted global standards for securities markets regulation.

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DeFi is a term used in industry and broader discussions. It does not give rise to a unique or different legal arrangement. Currently, there is no generally accepted definition of DeFi, even among industry participants, or what makes a product, service, arrangement, or activity decentralized. While DeFi may seek to eliminate traditional intermediaries, this report notes that certain DeFi arrangements and activities are in fact providing products and services that are equivalent to those provided by traditional market intermediaries and may be treated as market intermediaries in a particular jurisdiction.

IOSCO, POLICY RECOMMENDATIONS FOR CRYPTO AND DIGITAL ASSET MARKETS CONSULTATION REPORT (May 2023), available at https://www.iosco.org/library/pubdocs/pdf/IOSCOPD734.pdf.

See IOSCO, CRYPTO-ASSET ROADMAP FOR 2022-2023 (July 2022), available at https://www.iosco.org/library/pubdocs/pdf/IOSCOPD705.pdf. The FTF was established in March 2022 to develop recommendations to the Board of IOSCO and thereafter to oversee the implementation of IOSCO's regulatory agenda for Fintech and crypto-assets. The FTF is prioritising policy-focused work on crypto-asset markets and activities in its initial 12 to 24 months of operation, while continuing to monitor market developments associated with broader Fintech-related trends and innovation.

One of IOSCO's goals is to promote greater consistency with respect to the regulation and oversight of crypto-asset activities, given the cross-border nature of the markets, potential for regulatory arbitrage and significant risk of harm to retail investors. IOSCO is also seeking to encourage consistency in the way crypto-asset markets and securities markets are regulated within individual IOSCO jurisdictions, in accordance with the principle of "same activity, same risk, same regulatory outcome."

The proposed recommendations also cover the need for enhanced cooperation among regulators to coordinate and respond to cross-border challenges in enforcement and supervision, and to address regulatory arbitrage concerns, that arise from the cross-border nature of global crypto-asset activities conducted by DeFi participants who often offer their products and services across multiple jurisdictions.

While the proposed recommendations are not directly addressed to market participants, all participants in crypto-asset markets are strongly encouraged to carefully consider the expectations and outcomes articulated through the proposed recommendations and the respective supporting guidance in the conduct of regulated and cross-border activities.

SECTION I. INTRODUCTION TO THIS CONSULTATIVE REPORT

Background

In March 2022, IOSCO published its Decentralized Finance Report (2022 Report), presenting a comprehensive description of the DeFi market as of the date of that report.6 Since the 2022 Report, the use of DLT-based applications has increased in scale and scope, with some predicting continued growth in this area in the coming years.7 The 2022 Report noted that it is important for IOSCO members to develop a holistic and comprehensive understanding of the DeFi market, including by identifying and analyzing, among other things, the structural components of the DeFi market, the participants and activities involved, and the products and services offered.

Objectives of the Report

Consistent with the Roadmap, the present report is intended to build on the 2022 Report by providing recommendations and guidance to IOSCO members as they analyze DeFi within their own regulatory frameworks. While recognizing the value of responsible innovation, this report seeks to make clear that market regulators globally should apply a "same activity, same risk, same regulatory outcome" approach to financial markets, regardless of the technology that may be used to deliver financial products and services. In certain jurisdictions, this could mean that existing laws and regulations apply. To facilitate a level-playing field between crypto-asset markets and traditional financial markets and to reduce the risk of regulatory arbitrage, regulatory frameworks for DeFi (existing or new) should seek to achieve regulatory outcomes for investor protection and market integrity that are the same as, or consistent with, those required in traditional financial markets.

Like the 2022 Report, this report emphasizes the need for regulators to understand the DeFi market and its significance, what financial products and services are offered, who is offering those products and services, and to whom regulatory obligations may apply. This report is intended to assist IOSCO members reach that understanding based on their own analyses. As the 2022 Report notes, applicable regulatory frameworks apply to DeFi products, services, arrangements, and activities, notwithstanding characterizations or assertions of decentralization by market participants.

See IOSCO, DECENTRALIZED FINANCE REPORT (Mar. 2022), available at https://www.iosco.org/library/pubdocs/pdf/IOSCOPD699.pdf [hereinafter 2022 Report"]. The 2022 Report contains a detailed explanation of terms used in the 2022 Report and in this report. While each report cites to a number of sources, much of the reports' content represents a compilation of information developed by examining publicly available sources, including websites, white papers, and software code, including smart contract code. Not all of these sources have been cited.

⁷ See BCC Publishing, Global Decentralized Finance (DEFI) Market: Trends, Global Scenario, INNOVATIONS & MARKET (Jan. 2023), available at https://www.bccresearch.com/marketresearch/finance/global-decentralized-finance-market.html.

The report aims to assist global regulators as they identify the "Why, What, Who, and How" in applying IOSCO's Objectives and Principles for Securities Regulation and relevant supporting IOSCO standards, recommendations, and good practices (hereinafter IOSCO Standards) and their own regulatory frameworks to DeFi.

- Why: The report describes the state of the DeFi market and why it presents significant investor and market risks, arising through participants operating in non-compliance with, or outside of, existing investor and market protection regulatory frameworks. Further, since the publication of the 2022 Report, the DeFi market has been prone to increasing exploits and attacks, illicit uses, and other misconduct, resulting in investor and market harm. Moreover, the ability to apply regulatory oversight is challenging, due in part to significant data gaps and technological complexities.
- What: The report describes the common products and services offered in the DeFi
 markets, demonstrating that they do not materially differ from products and services
 offered in traditional financial markets, and that they present the same risks, along with
 additional risks due to the way they are offered.
- Who: The report identifies the types of persons and entities typically involved in the
 development and provision of products and services using DLT-based components and
 offers ways to analyze their involvement to determine potential regulatory touchpoints.
- How: The report provides recommendations and guidance to regulators as they
 examine the application of IOSCO Standards, and existing or new frameworks within
 their own respective jurisdictions, to DeFi products, services, arrangements, and
 activities.

Acknowledging the definitional and interpretive jurisdictional differences that currently exist, IOSCO has developed the proposed recommendations and guidance in this report by developing a functional, economic approach to the analysis, assessment, and mitigation of DeFi risks, rather than seeking to develop a one-size-fits-all prescriptive taxonomy.

Accordingly, IOSCO is taking an outcomes-focused, principles-based approach to risk identification, assessment, and mitigation. This approach has been informed by a mapping of IOSCO Standards to DeFi products, services, arrangements, and activities, and has enabled IOSCO to examine and assess how its existing policy framework aligns with key risks identified in DeFi.

Topics Covered in the Report

Section I (Introduction) introduces the report and describes its high-level objectives.

Section II (State of the DeFi Market) and the accompanying Annexes provide an overview of the state of DeFi, highlighting developments since the 2022 Report. These are intended to inform IOSCO members about the rapidly developing DeFi market through an analysis of recent events, trends and risks, and their implications for investors and the markets in DeFi.

Section III (**High-Level Recommendations and Guidance**) sets out nine policy recommendations that are intended to assist IOSCO members as they apply existing or develop new regulatory frameworks to achieve regulatory outcomes for investor protection and market integrity in DeFi that are the same as, or consistent with, those required in traditional financial markets.

The recommendations emphasize the importance of regulators developing a holistic and comprehensive understanding of DeFi products, services, arrangements, and activities.

This report recognizes that some jurisdictions have existing regulatory frameworks for financial instruments that encompass crypto and digital assets, including DeFi products, services, arrangements, and activities, while other jurisdictions are in the process of developing regulatory frameworks. Each jurisdiction should apply the IOSCO Standards, as they deem appropriate, within their existing or new frameworks.

Section IV (**Questions for Public Consultation**) contains consultation questions for public feedback.

Pre-Consultation Stakeholder Engagement

The proposed recommendations build on the analysis in the March 2022 report which benefited from broad consultation with IOSCO members, academics, and industry. These recommendations are informed by additional outreach with academics, data analytics firms, researchers, and technologists. The FTF also further surveyed its membership to identify key risks faced by regulators and policy measures needed to address the risks. Within its tight timelines, the FTF has also benefited from an initial discussion with its Affiliate Member Consultative Committee (AMCC) on the proposed framework now under consultation.

SECTION II. STATE OF THE DEFI MARKET

The 2022 Report provided a comprehensive overview of the DeFi market, including DeFi products, services, arrangements, and activities, based on information available at the time of its publication. This section (and the accompanying Annexes) provides: (A) an overview of DeFi's common products and services; (B) an update on recent developments and trends; (C) an overview of DeFi exploits, attacks, and illicit uses; (D) an explanation of data gaps and challenges; and (E) a highlight of key risks and considerations.

A. Common Products and Services Using DLT

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Persons and entities are currently offering financial products and services that, at least in part, utilize code deployed on public permissionless DLT-based platforms. These products and services include the offering of financial instruments; trading, lending, and borrowing activities involving financial instruments; and the provision of services relating to financial instruments, including exchange, broker, dealer, asset management, custody, clearing, and settlement.

A common misperception is that DeFi products and services are materially different from those found in traditional financial markets. Another common misperception is that DeFi products and services are offered in a fully automated manner using smart contracts, with no human involvement. However, these are not accurate descriptions of how the DeFi market currently operates in practice. Most of the products and services referred to as DeFi mimic those of traditional financial markets. Moreover, the code that implements a DeFi protocol is created, deployed, operated, and maintained by humans; it does not just spontaneously materialize and self-execute. Further, the smart contracts operating on a blockchain typically are only one component of the product or service being offered. For the most part, the products and services referred to as DeFi are offered by persons or entities using traditional components and infrastructures as well as smart contracts and blockchains.⁸

The 2022 Report details various DeFi products and services commonly offered. The DLT-based components associated with these products and services are commonly referred to as DeFi protocols. Typical DeFi protocols include, for example, decentralized exchange protocols, lending/borrowing protocols, and aggregator protocols. The 2022 Report described the way that these protocols typically operate in detail in, and this report provides an abbreviated description below for ease of reference.

Decentralized Exchange (DEX)9

A DEX provider typically provides a service through which one type of crypto-asset can be traded for another. One type of DEX is known as an *order book* DEX where, typically, a central operator maintains a user interface (such as a website or mobile application) and an off-chain order book, with a blockchain primarily serving as a settlement layer. Users

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⁸ See 2022 Report, supra note 5, at 7-8.

⁹ *Id.* at 14-15.

interested in buying or selling a particular crypto-asset at a certain price (makers) communicate their order to the operator, who will in turn publish the order for the use of other participants who may be interested in matching the order (takers). Once there is a match, the taker typically submits the order to the DEX, which sends the matched order for execution and settlement on a blockchain. Unlike in a centralized trading platform context, the operator may never have control of the users' crypto-assets and may serve only as a relayer of information that is necessary for the trade to be executed and settled on the blockchain. The operator typically collects fees from makers and takers for providing this service. In addition, takers typically pay a fee on each trade, a portion of which may go to makers to reward them for providing liquidity.

Another type of DEX uses what are referred to as "automated market makers" (AMMs). Operators of this type of service typically create a "factory" (or set) of smart contracts that can be used by participants to deposit two or more crypto-assets into what is commonly called an AMM or "liquidity pool", which then is available for other participants who want to exchange one of those crypto-assets for another. Depositors to the liquidity pool are generally referred to as "liquidity providers." They typically deposit a number of cryptoasset pairs into the liquidity pool and receive in return a crypto-asset, often referred to as a "liquidity provider token" or "LP token," which represents their pro rata interest in the liquidity pool and is redeemable at any time for their slice of the pool, including accrued trading fees. Typically, participants who trade with a liquidity pool deposit a certain number of crypto-asset A and receive a certain number of crypto-asset B. The exchange rate between A and B is automatically determined according to a preset formula that is based on the ratio of assets held by the pool and is designed to programmatically adjust prices to match market prices. Thus, as the ratio of crypto-asset A to crypto-asset B increases, the liquidity pool price of crypto-asset A decreases and the price of crypto-asset B increases. The degree to which the price of each of the assets moves generally depends on the size of the trade and the pool's liquidity. AMM-based DEXs are substantially dependent on arbitrage traders, typically employing bots, who are programmed to buy or sell crypto-assets for profit until its liquidity pool price converges with the average market price.

Lending/Borrowing10

Providers of lending/borrowing protocols offer a service that allows holders of cryptoassets, often stablecoins," to earn a fixed or variable return on those assets by depositing

¹⁰ Id. at 11-12.

The term "stablecoin" commonly refers to a crypto-asset that aims to maintain a stable value relative to a specified asset, or a pool or basket of assets. See, e.g., FSB, HIGH-LEVEL RECOMMENDATIONS FOR THE REGULATION, SUPERVISION AND OVERSIGHT OF GLOBAL STABLECOIN ARRANGEMENTS 19 (July 2023), available at https://www.fsb.org/wp-content/uploads/P170723-3.pdf. There is no universally agreed definition of stablecoin. The term stablecoin does not denote a distinct legal or regulatory classification. Importantly, the use of the term "stablecoin" in this report is not intended to affirm or imply that the asset's value is necessarily stable or that it is a type of currency. Rather, the term is used here because it is commonly employed by market participants

them in a smart contract (or lending pool) that simultaneously allows other participants to borrow those assets. Depositors typically receive a different crypto-asset, which represents that depositor's pro rata interest in the lending pool and can be redeemed at any time for the amount of the original deposit and accrued interest. In many such services, interest rates can vary and can be set by algorithms, a protocol project team, or through certain governance voting. Loans can be set for any amount, have no duration, and can usually be repaid at any time. Typically, there are no credit checks due to the pseudonymous nature of lending and borrowing protocols. As a result, the lending and borrowing protocol seeks to mitigate risk and protect solvency by implementing risk parameters, such as loan-tovalue ratios, liquidation ratios, liquidation bonuses (or penalties), and reserve factors that vary based on the crypto-asset used as collateral and its risks. Loans are generally required to be over-collateralized.

Aggregator¹²

Providers of aggregator services offer users a means to optimize trading, liquidity, or yieldgenerating opportunities, typically by scanning across protocols for such opportunities and then routing transactions to fulfill desired user parameters. Aggregators allow users, for example, to source trading bids and offers, monitor prices, and transact with a number of protocols from a single interface. Based on the activity being facilitated, aggregators typically include DEX aggregators (that query a range of trading protocols for the purpose of finding the best terms for a trade, including optimal trading price, trading fee and slippage (i.e., changes in deal terms over time)); yield aggregators (that collect user deposits and distribute deposits among protocols, using various strategies to maximize returns); and portfolio aggregators (that monitor a user's portfolio of crypto-assets across blockchains and protocols, and may facilitate the management of or trading in the portfolio). Certain aggregators may also function as an aggregator of aggregators, for example, by scanning various DEX aggregators to identify the best trade terms available. Aggregators may charge a fee for their services, which is added to the fee(s) that are otherwise charged by the protocols with which they interact.

DeFi: The Big Picture (Enterprise Level Viewpoint)

Importantly, as the 2022 Report points out, DeFi protocols (and the smart contracts that they use) typically are only one component of a larger enterprise that carries out the provision of any particular product or service. At the enterprise level viewpoint, persons and entities are engaging in real-world activities, facilitated through the use of various technologies (both on-chain and off-chain) to provide financial products and services. Those persons and entities at the enterprise level are described in the 2022 Report as the

and authorities. See FSB, REGULATION, SUPERVISION AND OVERSIGHT OF "GLOBAL STABLECOIN" Arrangements (Oct. 2020), available at https://www.fsb.org/wp-content/uploads/P131020-3.pdf; see also BIS, THE CRYPTO ECOSYSTEM: KEY ELEMENTS AND RISKS 7 (July 2023), available at https://www.bis.org/publ/othp72.pdf (discussing a number of shortcomings that threaten stablecoins' claims to stability, including that the quality and transparency of reserve assets is often lacking).

²⁰²² Report, supra note 5, at 15-16.

Big Picture. There are a number of primary participants involved at the enterprise level, including those engaging in capital formation, development, and deployment of the components necessary to provide a product or service (such as founders, developers, and foundations); those investing in and using the product or service (such as investors, traders, lenders, and borrowers); those contributing to the ongoing operations of the enterprise (including those with control or sufficient influence over the governance of the enterprise); and those providing infrastructure and services around the product or service (such as oracles, bridges, and miners/validators). Each of the stakeholders in any particular arrangement plays an important role and generally expects to earn a profit through participation. As regulators determine appropriate regulatory touchpoints, they will likely find it useful to examine any particular DeFi arrangement and activity at the enterprise level.

In analyzing DeFi arrangements and activities at the enterprise level, it is important to note that, although persons and entities may be using technologies to conduct their business operations in ways that may differ in certain respects from traditional providers, the products and services they provide do not materially differ from those in traditional Upon close examination, these stakeholders and their roles, and the organizational, technological, and communication mechanisms they use, tend to mimic those that regulators are used to seeing in traditional finance. Therefore, the choices of persons, for example, to organize as a Decentralized Autonomous Organization (DAO) (instead of incorporating); to communicate using internet-based communications platforms (instead of meeting in a physical location or boardroom); to issue crypto-assets (instead of engaging in more traditional forms of fund raising); and to deploy code using computers organized in a peer-to-peer network structure (instead of using a server-client network structure), do not abdicate these persons and entities of their regulatory responsibilities. Regardless of the labels, organizational forms, or technologies used, persons and entities who provide financial products and services are subject to applicable laws.

The Big Picture diagram in ANNEX D (reproduced from the 2022 Report) illustrates a common scenario describing participants and activities sin DeFi. It can serve as a useful guide for regulators as they analyze any particular DeFi product or service at the enterprise level.

B. Growth of DeFi and the Impact of Recent Market Developments on DeFi **Investors and Markets**

See FSB, THE FINANCIAL STABILITY RISKS OF DECENTRALISED FINANCE 1 (Feb. 2023) available at https://www.fsb.org/wp-content/uploads/P160223.pdf [hereinafter "FSB DeFi Report"] ("While the processes to provide services are in many cases novel, DeFi does not differ substantially from TradFi in the functions it performs.").

Fuelled by the use of stablecoins and an influx of participants through centralized crypto-asset platform on-ramps, the combined Total Value Locked (TVL)¹⁴ of the DeFi ecosystem rose dramatically in 2021 and reached a reported all-time high of approximately \$180 billion in November 2021. However, the occurrence of several significant crypto-asset market events since the publication of the 2022 Report have had an impact on the DeFi ecosystem, which has led to investor losses and market disruptions. These events have revealed vulnerabilities in the broader crypto-asset market and have demonstrated the close but often hidden interconnectedness and interdependencies between and among crypto-asset market participants across the crypto-asset ecosystem, including DeFi arrangements and activities. These events demonstrate that shocks to one part of the crypto-asset market, including from events occurring on centralized crypto-asset platforms and involving stablecoins, as well as shocks to traditional financial markets, likely will have spill-over effects into DeFi, impacting investors and the markets.¹⁵

For example, in 2022, the algorithmic stablecoin¹⁶ Terra USD and its associated LUNA token death spiraled, reportedly resulting in billions of dollars in outflows from DeFi applications associated with Terra, as well as the halting of the Terra blockchain.¹⁷ Also in 2022, the insolvency of FTX, at the time one of the largest centralized crypto-asset platforms globally, reportedly impacted certain DeFi protocols and ecosystems with which FTX was associated or had supported, and also impacted FTX's customers, counterparties and investors, with propagating effects into DeFi protocols with whom those parties had interlinkages.¹⁸ In 2023, a New York State supervisory action ordering Paxos Trust Company to cease minting the stablecoin BUSD reportedly caused certain centralized platforms and DeFi protocols to limit the use of BUSD, with some DeFi protocols taking

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Total Value Locked (TVL) is an industry reported measure calculated by multiplying the token market value by the number of tokens deposited into a particular DeFi protocol, blockchain, or ecosystem. While TVL has become a metric for gauging interest in a particular crypto-asset sector and can be looked to in a relative sense, it will change with the market value of the tokens it counts and may "double-count" tokens.

See FSB DeFi Report, supra note 12, at 18.

An "algorithmic stablecoin" is a stablecoin that purports to maintain a stable value via protocols that provide for the increase or decrease of the supply of the stablecoin in response to changes in demand. See FSB, HIGH-LEVEL RECOMMENDATIONS FOR THE REGULATION, SUPERVISION AND OVERSIGHT OF GLOBAL STABLECOIN ARRANGEMENTS 17 (July 2023), available at https://www.fsb.org/wp-content/uploads/P170723-3.pdf.

See, e.g., Krisztian Sandor & Ekin Genç, *The Fall of Terra: A Timeline of the Meteoric Rise and Crash of UST and LUNA*, COINDESK (Dec. 22, 2022, 4:07 pm), https://www.coindesk.com/learn/the-fall-of-terra-a-timeline-of-the-meteoric-rise-and-crash-of-ust-and-luna/.

FTX operated (and other centralized crypto-asset platforms operate) as a multifunctional crypto-asset intermediary, which typically provides a vertically integrated suite of products and services within one entity or group of affiliated entities. This operational structure poses significant risks. See CDA Report (describing in detail the significant risks presented by such operational structure). The interconnectedness and interdependencies of centralized crypto-asset platforms with DeFi arrangements and activities, detailed herein and in the 2022 Report, exacerbate risks in DeFi.

steps to freeze their BUSD markets.¹⁹ Also in 2023, the failure of a US regional bank that offered deposit services to a stablecoin issuer contributed to a temporary de-pegging of the stablecoin because of uncertainty about the issuer's access to its deposits.²⁰ This, in turn, caused disruptions in the DeFi markets. These recent events and their respective impacts in DeFi are explained in greater detail in ANNEX A to this report.

Each of these consequential events had a noticeable impact, not only on particular DeFi arrangements and activities at the time of their occurrence (or shortly thereafter), but on the entire DeFi ecosystem as well. In the first week of May 2022, before the collapse of Terra USD/LUNA, the reported combined TVL of the DeFi ecosystem was approximately \$140 billion. By May 14, 2022, that number fell to approximately \$80 billion. In the wake of FTX's collapse, the reported combined TVL fell further to approximately \$40 billion. Reported combined TVL has thus far somewhat stabilized in 2023, fluctuating with the volatility of its underlying crypto-assets, but has remained at approximately only a third of the level it was in April 2022 before Terra USD/LUNA's collapse.²¹

C. DeFi Exploits, Attacks and Illicit Uses

The 2022 Report discussed vulnerabilities associated with products and services that rely on DLT-based arrangements and activities. This report explores in greater depth in ANNEX B how cyber exploits and attacks continue to target these vulnerabilities and have resulted in massive losses for investors and other DeFi participants. Vulnerabilities can exist, for example, in blockchain networks, smart contracts and protocols, governance mechanisms, oracles, and cross-chain bridges. At a high level, exploits and attacks in DeFi target access control points. When such points are compromised, an attacker can, for example, commandeer the ability to alter token balances, interfere with governance processes, change the initial parameters and functionality of a smart contract, and circumvent protections such as multi-signature (multi-sig) procedures.

According to one blockchain analytics firm, attacks on DeFi protocols in 2022 accounted for 82.1% of all crypto-assets stolen by hackers — a total of \$3.1 billion — up from 73.3% in

See New York regulator says Paxos unable to "safely" issue Binance's stablecoin, REUTERS (Feb. 13, 2023, 10:01 am), https://www.reuters.com/article/fintech-crypto-binance-stablecoin/new-york-regulatorsays-paxos-unable-to-safely-issue-binances-stablecoin-idUSL8N34T42O.

See FSB, GLOBAL REGULATORY FRAMEWORK FOR CRYPTO-ASSET ACTIVITIES UMBRELLA PUBLIC NOTE TO ACCOMPANY FINAL FRAMEWORK 5 (July 2023), available at: https://www.fsb.org/2023/07/fsb-globalregulatory-framework-for-crypto-asset-activities/; see also BIS, THE CRYPTO ECOSYSTEM: KEY ELEMENTS AND RISKS 15 (July 2023), available at https://www.bis.org/publ/othp72.pdf ('The fall in crypto prices that started in the second half of 2022 did eventually spill over to the traditional financial system. ... These cases highlight that a business model that is highly exposed to crypto can be problematic for the banking sector.').

²¹ See DEFILLAMA, https://defillama.com/. The total market value of crypto-assets reportedly reached nearly \$3 trillion in mid-November 2021, but has declined to approximately one-third that value currently. See, e.g., CoinGecko, Cryptocurrencies Global Charts, available at https://www.coingecko.com/en/global-charts.

2021. Of that \$3.1 billion, 64% was attributable to attacks on cross-chain bridges.²² Another blockchain analytics firm reported that nine of the ten largest attacks occurred against DeFi projects.²³ Reports indicate that hacker groups associated with North Korea are among the most prolific.²⁴ Reportedly, North Korean-linked hackers have stolen \$1.1 billion in crypto-assets through hacks of DeFi protocols.²⁵

Recent reports also assert that DeFi protocols increasingly are used for money laundering and other illicit uses.²⁶ Reports describe the use of DeFi protocols as a means to convert stolen crypto-assets of one type for crypto-assets of another type that is more liquid or less volatile and, eventually, these crypto-assets can be converted into fiat currencies at centralized crypto-asset trading platforms. One blockchain analytics firm estimates that hackers holding stolen crypto-assets send a majority of those funds (57%) to DeFi protocols.²⁷ A recent report by the Financial Action Task Force (FATF) found that crypto-assets pose money laundering, terrorist financing, and proliferation financing risks, including abuse by sanctioned actors.²⁸

D. Data Gaps and Challenges

Despite the existence of publicly available blockchain data and blockchain data analytics providers, regulators (and investors) face significant data gaps and challenges in understanding DeFi. Proponents of DeFi often claim that blockchain ecosystems are

²² CHAINALYSIS, THE 2023 CRYPTO CRIME REPORT (Feb. 2023), available at https://go.chainalysis.com/2023-crypto-crime-report.html.

TRM, ILLICIT CRYPTO ECOSYSTEM REPORT: A COMPREHENSIVE GUIDE TO ILLICIT FINANCE RISKS IN CRYPTO 32 (June 2023), available at https://www.trmlabs.com/illicit-crypto-ecosystem-report-2023#:~:text=TRM%20Labs%20data%20indicates%20that%2ocryptocurrency%20wallets%20that%2oreceive%20victim.large%20transnational%20organized%20crime%20groups.

See, e.g., FATF, Targeted Update on Implementation of the FATF Standards on Virtual Assets and Virtual Asset Service Providers 3 (June 2023), available at https://www.fatf-gafi.org/en/publications/Fatfrecommendations/targeted-update-virtual-assets-vasps-2023.html ("Recent reports raise serious concerns about the threat posed by the Democratic People Republic of Korea's (DPRK) illicit VA-related activities, including ransomware attacks and sanctions evasion, for financing the proliferation of weapons of mass destruction. This activity has enabled an unprecedented number of recent launches of ballistic missiles (including inter-continental ballistic missiles). This threat is significant given both the scale of the funding (USD 1.2 billion worth of stolen VAs since 2017, including VAs stolen from DeFi arrangements) and the serious consequences of proliferation financing.") (internal citations omitted).

²⁵ CHAINALYSIS, *supra* note 21, at 60.

See id.; U.S. DEPT OF THE TREASURY, ILLICIT FINANCE RISK ASSESSMENT OF DECENTRALIZED FINANCE (Apr. 2023), available at https://home.treasury.gov/system/files/136/DeFi-Risk-Full-Review.pdf.

²⁷ CHAINALYSIS, supra note 21.

²⁸ FATE supra note 22, at 4 (

completely transparent, given that smart contract code purportedly is publicly accessible and that activity on a blockchain is publicly observable. However, certain aspects of the DeFi ecosystem remain opaque and the data that is publicly accessible is difficult to access and interpret.

There exist several challenges to the accessibility and interpretability of relevant data, including:29

- Required skills and infrastructure: Accessing, cleaning, and standardizing data for analysis, including operational data sets from DeFi protocols and market data sets from the DeFi market more broadly, requires sophisticated software engineering and data science skills, as well as infrastructure. Interpreting and extracting insights from DeFi data sets also requires specific skills and infrastructure, including both financial marketrelated skills for traditional financial analysis, as well as computer science-related skills to interpret code and develop the necessary data pipeline and analytical infrastructure. Various datasets and analytical tools are also needed. In addition, while industry proponents claim that smart contracts are transparent, in practice the source code for smart contracts implemented on blockchains are in machine-readable (not humanreadable) format, may not conform to public descriptions of the code (either in plain text or in a GitHub or GitLab repository of code), and in some cases may be subject to change by the smart contracts' developers.30 As a consequence, what is written to a blockchain may need to be analyzed to determine whether it actually reflects what it is purported to represent.31 Enhancements to the skills, datasets, and tools necessary to analyze DeFi data could improve a regulator's ability to oversee DeFi arrangements and activities.
- Lack of standardization: The lack of standardization across DeFi datasets and codebases makes it difficult to collect, reconcile, and analyze data across protocols, blockchains and markets.32 Data providers may have materially different methodologies for aggregating data and calculating metrics. In addition to the lack of standardization in data sets, there is a lack of standardization in code used to develop DeFi protocols. For example, while there are open-source standards that describe the basic functionality for certain aspects of a token (e.g., ERC-20 standard) or DeFi service

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²⁹ The Financial Stability Board has also discussed data challenges in a recent report. See FSB, supra note 12.

³⁰ Certain publicly available tools can be used, for example, to compile purported source code from GitHub for comparison to a smart contract's on-chain bytecode; however, use of such tools requires expertise and could require some standardization of data prior to using such a tool.

³¹ For example, the US Securities and Exchange Commission recently filed a case alleging that, among other things, the promotors of a particular DeFi project merely uploaded transaction details to a blockchain, falsely claiming that the transactions had been processed and settled on the blockchain, when in reality they reflected payments made through traditional means off-chain. https://www.sec.gov/litigation/complaints/2023/comp-pr2023-32.pdf.

An example of operational data includes the number of addresses interacting with the protocol. An 32 example of market data includes the volume of token swaps within a liquidity pool.

(e.g., liquidity pair smart contract), developers frequently modify code to provide additional functionality for their DeFi protocol. These modifications require analysts to examine each protocol individually to understand and extract relevant information. Compounding this complexity is the composability of smart contracts, which allows integrations between DeFi protocols or other smart contracts to create new systems or outputs. Composability can result in risks due to the various methods of integration and the reuse of existing software components. Further moves toward standardization across DeFi data sets and codebases could assist regulators in understanding and assessing DeFi arrangements and activities.

Pseudonymity and Off-chain Activity: Another challenge to data analytics is the pseudonymous nature of transactional data on-chain and the opacity of data off-chain. Opacity can be exacerbated by the practice of market participants using multiple pseudonymous addresses to obfuscate their activity. This can lead to challenges in assessing, for example, levels of retail investor participation, concentrations in the market, interconnectedness within DeFi or to the broader financial ecosystem, or risks posed by a given market participant or activity. Improvements to recordkeeping and reporting could alleviate challenges to data analytics.

Such data gaps and challenges are pervasive in the DeFi ecosystem and are explored in greater detail in ANNEX C.

E. Key Risks and Considerations

As the 2022 Report noted, although DeFi has been presented as providing certain benefits, it also presents numerous risks to participants, including to investors and the markets, currently and as it is developing. In some jurisdictions, participants in the DeFi market may be operating in non-compliance with applicable laws and regulations. In others, participants may be operating outside the scope of existing regulatory frameworks. The 2022 Report identified key investor and market protection risks known in DeFi at that time and gave a detailed description of many of those risks, including risks arising from: asymmetry and fraud, market integrity issues, front-running (or similar activities), flash loans, market dependencies, use of leverage, illicit activity, operational and technologybased issues, cybersecurity issues, nascent stage of development, governance mechanisms, and the spill-over of risks to centralized/traditional markets. The risks identified in the 2022 Report continue to exist in DeFi today.

Events and trends observed since the 2022 Report have highlighted risks attendant to DeFi and the crypto-asset markets more broadly, including from market interconnectedness and interdependencies, the use of leverage, unpredictable and opaque governance structures, as well as risks from the structures of DLT-based arrangements themselves. The Financial Stability Board (FSB) recently released a report detailing the financial stability risks of DeFi (hereinafter FSB DeFi Report).33 The FSB DeFi Report describes a panoply of risks, such as maturity operational fragilities, liquidity and mismatches, leverage,

³³ FSB DeFi Report, supra note 12.

interconnectedness, and notes that these risks can be amplified by DeFi's technological features, the high degree of structural interlinkages among participants in DeFi, and from non-compliance with existing regulatory requirements or lack of regulation.³⁴ The FSB DeFi Report notes that, given the nascent and evolving nature of DeFi, severe market integrity issues could lead to potential impacts on financial stability, if the sector grows further and becomes more interconnected with traditional finance and the real economy.³⁵ The FSB DeFi Report specifically cites to the reliance of some DeFi products on continuous investor inflows to remunerate early adopters, a business model recognized as unsustainable.³⁶ A recent Bank for International Settlements (BIS) report concerning key risks of the crypto ecosystem, including DeFi, found that crypto has inherent structural flaws that pose serious risks not only to its own stability and safety, but also to that of the traditional financial system.³⁷

The risk discussion in <u>ANNEX E</u> details some of the investor protection and market integrity risks in the DeFi market, particularly those associated with DeFi governance structures, derivatives and levered strategies, and the use of oracles and cross-chain bridges. More specifically, DeFi governance structures are often opaque, experimental, unpredictable, and/or easy to manipulate. Participation in such structures generally entails engagement with others on a pseudonymous or anonymous basis. This results in a lack of transparency into how governance mechanisms actually operate in practice, obfuscating the identity of controlling persons and masking conflicts and potential collusive behavior. The DeFi market also continues to offer exposure to levered strategies, exposing investors to well-known risks and also those exacerbated by features such as the automated liquidation of positions through smart contracts and hidden interlinkages. Furthermore, DeFi's reliance on connectivity to off-chain data and interoperability through oracles and cross-chain bridges continues to present considerable risks.

³⁴ Id. at 16.

³⁵ Id. at 23.

³⁶ Id.

BIS, THE CRYPTO ECOSYSTEM: KEY ELEMENTS AND RISKS 1 (July 2023), available at https://www.bis.org/publ/othp72.pdf ("[W]hile DeFi mostly replicates services offered by the traditional financial system, it does not finance any activity in the real economy but amplifies known risks. As growth is driven mainly by the speculative influx of new users hoping for high returns, crypto and DeFi pose substantial risks to (especially retail) investors.").

SECTION III. RECOMMENDATIONS AND GUIDANCE

The following recommendations have been developed based on information and analysis from the 2022 Report; subsequent events, developments, and analysis; a survey to IOSCO members (the results of which are described in ANNEX G); and public source research and outreach to industry, academic and researchers. The recommendations and guidance describe how regulators can analyze DeFi products, services, arrangements, and activities, and are intended to support those authorities in jurisdictions seeking to apply IOSCO's Standards to DeFi through existing regulatory frameworks, as well as those authorities that are considering new frameworks to address any potential gaps in order to achieve regulatory outcomes that are the same as, or consistent with those that are required in traditional financial markets.

In developing the guidance to the recommendations, a mapping was done of common DeFi products, services, arrangements, and activities across the IOSCO Principles for Securities Regulation, which includes a mapping of certain DeFi products, services, arrangements, and activities to those found in traditional finance. The complete mapping is found in **ANNEX F**. Portions of the mapping have been incorporated into the guidance to illustrate how regulators can apply IOSCO Principles through their own regulatory frameworks.

OVERARCHING RECOMMENDATION ADDRESSED TO ALL REGULATORS

Preamble: Intent of the Recommendations

The exposure of investors across the globe to DeFi has grown in recent years, as have investor losses amid regulatory non-compliance, financial crime, fraud, market manipulation, money laundering, and other illegal crypto-asset market activity. Given the similar economic functions and activities of the DeFi market and traditional financial markets, many existing international policies, standards and jurisdictional regulatory frameworks are applicable to DeFi products, services, arrangements, and activities.

IOSCO is issuing these proposed Policy Recommendations to help IOSCO members apply relevant existing IOSCO Standards through their own regulatory frameworks, as appropriate, to DeFi products, services, arrangements, and activities within their jurisdictions. These Recommendations recognize that some jurisdictions have existing regulatory frameworks that encompass DeFi, while other jurisdictions are in the process of developing regulatory frameworks. In addition, in some jurisdictions, the regulatory framework may allocate responsibility for the regulation and oversight of DeFi to a number of regulators that possess discrete and complementary mandates and objectives, to address investor protection and market integrity risks. Each jurisdiction should implement the Recommendations, as they deem appropriate, within their frameworks considering each

These Recommendations should be considered by IOSCO members as they apply existing regulatory frameworks (*Existing Frameworks*), or as they are granted new powers and/or are developing new requirements (together *New Frameworks*), to DeFi and related activities in a manner that achieves outcomes across jurisdictions consistent with IOSCO Standards, including the IOSCO Objectives and Principles for Securities Regulation.

These Recommendations and guidance form part of IOSCO's efforts within the broader context of cooperation and coordination with respect to DeFi among international bodies such as the FSB, FATF and the BIS, and between the Standard Setting Bodies such as IOSCO, the Committee on Payments and Market Infrastructures-IOSCO (CPMI-IOSCO) and the Basel Committee on Banking Supervision (BCBS). This should help facilitate a level playing field between crypto-asset markets and traditional financial markets and help reduce the risk of regulatory arbitrage arising from any differences in how the rules are applied and enforced with respect to DeFi and traditional financial markets.

As discussed herein, DeFi products and arrangements may fall within the definitions of securities or other regulated financial instruments in a jurisdiction's Existing Framework or New Framework. However, in jurisdictions where such products and arrangements do not, regulators are encouraged to analyze the applicability and adequacy of their regulatory frameworks, and the extent to which (1) such products and arrangements behave like substitutes for securities or other regulated financial instruments, and (2) investors have substituted securities or other financial instrument investment activities with DeFi investment activities.³⁹

INTEROPERABILITY WITH IOSCO POLICY RECOMMENDATIONS FOR CRYPTO AND DIGITAL ASSET MARKETS

In May 2023, pursuant to its Roadmap, IOSCO published its Policy Recommendations for Crypto and Digital Asset Markets Consultation Report (CDA Report), containing recommendations aimed at the activities performed by crypto-asset service providers (CASPs).⁴⁰ CASPs are service providers that conduct a wide range of activities relating to

Case 1:24-cv-01858-ACR

Given the diversity of operating landscapes across different jurisdictions, the application and/or implementation of the Recommendations can take into account the context of specific legal structures prevailing in each jurisdiction, as well as the respective mandates of individual regulators where relevant. One way for a regulator to accomplish this, through its given mandate and the regulatory frameworks it applies, is to set out clear principles-based expectations for a DeFi participant to meet (which can be supported by regulatory guidance, as appropriate), in order to achieve the same regulatory outcomes articulated in this report.

For such jurisdictions, this report may be read and interpreted to mean that the recommendations apply as though the DeFi products and arrangements are within the definition of securities or other regulated financial instruments, and jurisdictions should look to achieve the outcomes set out in the recommendations, as appropriate and consistent with their respective mandates.

See CDA Report, supra note 17, at 1.

crypto-assets,41 including but not limited to, admission to trading, trading (as agent or principal), operating a market, custody, and other ancillary activities such as services relating to lending/staking of crypto-assets and the promotion and distribution of cryptoassets on behalf of others. These service providers can exist as centralized crypto-asset service providers, which operate under traditional corporate forms, and they can also exist in DeFi, where said activities can be carried outside of traditional corporate forms.

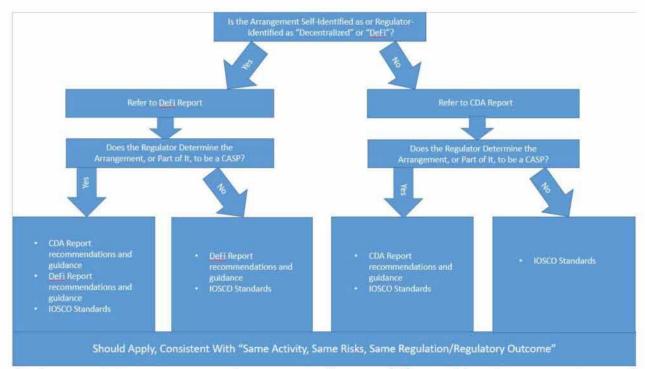
The delineation between centralized and decentralized finance (or CeFi and DeFi) is more a spectrum than a bright line. In the crypto-asset markets, along a spectrum of arrangements, persons and entities typically engage in financial activities that substantially mirror traditional financial activities. They do so using a number of technologies including, to varying degrees, DLT. However, regardless of the organizational form or technologies used, these persons and entities should be treated in line with the guiding principle of "same activity, same risk, same regulatory outcome."

IOSCO recognizes that regulatory touchpoints are readily identifiable where persons and entities are organized in traditional corporate forms. However, as noted, persons and entities who provide DeFi products and services attempt to arrange and distribute their operations outside of traditional corporate forms. Thus, it is possible that, in certain instances, it may be more challenging to identify regulatory touchpoints to which regulatory obligations may be applied. This report is thus intended to foster a deeper understanding of the DeFi market as currently operating to assist regulators with their analysis.

The recommendations and guidance in this report should be applied to a particular arrangement if it identifies itself or is identified by a regulator as decentralized. This report provides a diagnostic (i.e., understanding the facts and circumstances of an activity) and prognostic (i.e., understanding the investor risks and market risks posed by the activity) approach to examining and assessing DeFi arrangements, such that for a particular activity and its risks, regulators can apply the same regulation or aim to achieve the same regulatory outcome.

To the extent a regulator, applying the recommendations in this report, determines that a particular DeFi arrangement, or a part of that arrangement, falls within the scope of the definition of a CASP, the CDA Report recommendations will also apply to the CASP and the provision of related regulated activities. Thus, whatever form or organization the CASP takes, if a person or entity is a CASP in a particular jurisdiction, the recommendations of the CDA Report will also apply to the CASP. The flow chart below illustrates the interoperability of the CDA Report and this DeFi report:

The term "crypto-asset," also sometimes called a "digital asset," refers to an asset that is issued and/or transferred using DLT, including, but not limited to, so-called "virtual currencies," "coins," and "tokens." To the extent digital assets rely on cryptographic protocols, these types of assets are commonly referred to as "crypto-assets."



Markets participants are strongly encouraged to carefully consider the expectations and outcomes articulated through the proposed recommendations and the respective supporting guidance, including, for CASPs, the recommendations and guidance in the CDA Report.

Recommendation 1 – Analyze DeFi Products, Services, Arrangements, and Activities to Assess Regulatory Responses

A regulator should analyze DeFi products, services, arrangements, and activities occurring or located within its jurisdiction with a view to applying its Existing Framework or New Framework, as appropriate, in accordance with the principle of "same activity, same risk, same regulatory outcome." To do so, a regulator should aim to achieve a holistic and comprehensive understanding of such DeFi products, services, arrangements, and activities. A regulator should assess what technological knowledge, data, and tools the regulator needs to understand, and analyze DeFi products, services, arrangements, and activities to inform regulatory responses.

Guidance

Understanding DeFi products, services, arrangements, and activities occurring or located within a jurisdiction is critical to determining the appropriate regulatory response, including, the potential application of IOSCO Standards through applicable regulatory frameworks.

The 2022 Report recognized that a comprehensive understanding of the regulatory implications arising from DeFi requires analyzing the totality of the DeFi ecosystem as it exists currently, its interrelationship with centralized crypto-asset platforms and service

providers and traditional markets and activities as well as anticipating how it may continue to develop in the future. Developing a comprehensive understanding involves identifying and analyzing, among other things, the structural components of DeFi products, services, arrangements, and activities; the roles of each of the participants involved, including their incentives and motivations; how participants engage with the various components and each other; and the roles that centralized crypto-asset platforms and service providers play.

In assessing whether a particular product, service, arrangement or activity falls within a regulator's jurisdictional remit, ideally the regulator should aim to gain a holistic understanding of the particular product, service, arrangement and activity at (i) an enterprise level (i.e., based on the factual and substantive economic reality), (ii) a functional level, and (iii) a technical level.

The regulator should seek to understand the DeFi arrangement at the economic reality level, or the "enterprise level." In so doing, the regulator should seek to understand how each of the participants involved in the particular DeFi arrangement are involved at all stages in the life-cycle of the arrangement. For example, the regulator should seek to ascertain how the particular arrangement was developed and founded, promoted and funded, and how it is operated, used and maintained. The regulator should seek to ascertain how income, revenues and profits are generated, including any fee structures. This includes understanding the life-cycle of any associated tokens. The regulator should also seek to understand the interrelationship of each of the participants with each other, including centralized crypto-asset platforms and traditional markets and activities. The Big Picture diagram (depicted in ANNEX D) and the 2022 Report identify and describe various participants, and their activities, fund flows, and interrelationships. The Big Picture diagram and 2022 Report can serve as guides to a regulator seeking an economic reality or enterprise level view of any particular arrangement in DeFi. Critically, the regulator should seek to ascertain how decisions are made at the enterprise level. In many cases, identifying who exercises control or sufficient influence at the enterprise level will reveal existing or potential regulatory touchpoints.

When examining any particular DeFi arrangement, a regulator could consider a review of publicly available information concerning the DeFi arrangement, including from sources such as websites, white papers, industry reports, and social media. They could also consider engaging with persons involved with or associated with the arrangement, as well as experts, academics, researchers and public advocacy groups, as appropriate. Further, they could consider using available investigatory tools and techniques to gather additional information, including relevant information sharing arrangements with other authorities located within and outside their jurisdiction.

A regulator should also seek to analyze the DeFi arrangement at the functional level. A regulator should seek to understand the activities being conducted by or through the DeFi arrangement and, in particular, what products and/or services are being provided. Many of the financial products and services in DeFi mirror, and in some cases overlap with, more traditional securities and other regulated financial instruments and related products

and services. A potential starting point for this analysis is to map the particular DeFi arrangement to traditional financial products and services. The 2022 Report, which includes comparisons between DeFi activities and traditional financial activities, can serve as a starting point for analysing the common types of DeFi arrangements. The mapping in the guidance under Recommendation 3 below can provide further assistance.

A regulator also could seek to analyze the DeFi arrangement at the technical level, if feasible. Although analysis at the technical level requires the necessary knowledge, data and tools, such analysis is helpful to fully understand and analyze DeFi products, services, arrangements, and activities. This type of analysis requires understanding the relevant technologies in the tech stack associated with the DeFi arrangement.⁴² For example, regulators may seek to understand how the settlement layer blockchain operates, including what type of consensus mechanism the settlement layer uses, the concentration of participants in the consensus mechanism, and to what degree they may impact the functioning of a smart contract or protocol, including through the inclusion or ordering of transactions (in connection with maximal extractable value (MEV) strategies) or by exerting some other control over the DeFi arrangement. The analysis may also include an understanding of how the arrangement's associated smart contracts work, what other technologies and processes the arrangement relies upon (on-chain and off-chain, including bridges and oracles), and what role particular crypto-assets play in the operation of the arrangement. It may also require an understanding of how, technologically, a user interacts with the arrangement, i.e., through various user interfaces, and how those interfaces are controlled and maintained.

Regulators may need to consider whether they have the appropriate resources to evaluate DeFi products, services, arrangements, and activities. Regulators should assess whether there are limitations on their ability to identify appropriate participants that may be subject to regulation. If there are any such limitations, regulators should assess the cause for the limitation - whether regulatory, legal, resource/knowledge-based, or otherwise - and whether and how those can be addressed. If a regulator lacks the capacity to undertake a technical level analysis, the regulator could consider how it might augment its capacity or seek technical assistance.

Further, regulators should seek methods to obtain verifiable data and information about DeFi products, services, arrangements, and activities as they engage in such analysis. This may include the use of blockchain analytical tools and techniques for on-chain data and the use of supervisory, examination and investigatory tools and techniques for on-chain and off-chain data. When considering crypto-asset related data, it is important to bear in mind that on-chain data can be difficult to decipher without the required tools and expertise and is often pseudonymous or anonymous. Off-chain data, such as that available from crypto-asset trading platforms, typically is not audited or otherwise verified. ANNEX C provides a detailed analysis of data gaps and challenges in DeFi.

⁴² See 2022 Report, supra note 5, at 3-4.

Regulators could consider how best to communicate and engage with DeFi market participants and others (such as academics, researchers, and public policy groups) as they evaluate DeFi products, services, arrangements, and activities within their jurisdictions and apply existing or new frameworks.

Recommendation 2 - Identify Responsible Persons

A regulator should aim to identify the natural persons and entities of a purported DeFi arrangement or activity that could be subject to its applicable regulatory framework (Responsible Person(s)).43 These Responsible Person(s) include those exercising control or sufficient influence over a DeFi arrangement or activity.

Responsible Person(s) generally are persons and entities that provide or actively facilitate the provision of products or services. Responsible Person(s) include those that maintain control or sufficient influence over a particular DeFi arrangement or activity.⁴⁴ Regulators can consider, for example, those with design and maintenance control; financial and economic control; and formal and legal control, among other things. In many cases, those who have control or sufficient influence over a particular activity at the enterprise level (see Recommendation 1 above) will also be Responsible Persons.

In conducting this analysis, a regulator should carefully examine any claim that the arrangement or activity is purportedly decentralized to the point that no persons or entities are responsible and should subject Responsible Persons to its applicable regulatory

2021.html ("[C]reators, owners and operators or some other persons who maintain control or sufficient influence in the DeFi arrangements, even if those arrangements seem decentralized, may fall under the FATF definition of a [Virtual Asset Service Provider ('VASP')] where they are providing or actively facilitating VASP services. This is the case, even if other parties play a role in the service or portions of the process are automated. Owners/operators can often be distinguished by their relationship to the activities being undertaken. For example, there may be control or sufficient influence over assets or over aspects of the service's protocol, and the existence of an ongoing business relationship between themselves and users, even if this is exercised through a smart contract or in some cases voting protocols. Countries may wish to consider other factors as well, such as whether any party profits from the service or has the ability to set or change parameters to identify the owner/operator of a DeFi arrangement. These are not the only characteristics that may make the owner/operator a VASP, but they are illustrative. Depending on its operation, there may also be additional VASPs that interact with a DeFi arrangement."). Indicia of control or influence can include, for example, ownership interest; significant financial interest; significant voting rights; management of or the ability to impact the operations of the protocol at an enterprise or fundamental level; the ability to set permissions or access rights for users of the protocol, or to otherwise impact the rights of other users of the protocol; control over user assets; and the ability to enter into agreements for the protocol or enterprise. What constitutes control may also depend on the relevant regulations in a jurisdiction.

⁴³ Responsible person(s) is meant broadly, to encompass, for example, natural persons, groups of persons, entities and organizations, whether formally or informally constituted.

See also FATF, UPDATED GUIDANCE FOR A RISK-BASED APPROACH, VIRTUAL ASSETS AND VIRTUAL ASSET 44 SERVICE PROVIDERS 27 (2021), available at: https://www.fatf-gafi.org/en/publications/Fatfrecommendations/Guidance-rba-virtual-assets-

framework. In assessing who is a Responsible Person, rather than relying on labels or concepts such as decentralization or the automated nature of smart contracts in DeFi arrangements, a regulator should evaluate all the facts and circumstances, including: (a) the roles of natural persons and entities in a DeFi arrangement and how those persons and entities interact with each other and how those roles may evolve over time; (b) the ability of those natural persons and entities, such as developers or foundations or decentralized autonomous organizations (DAOs), to control or influence the arrangement, including through actions that would impact a smart contract, protocol, or the enterprise level operations of any particular DeFi arrangement; (c) whether there are other parties exercising control or influence over the DeFi arrangement, such as venture capital firms, large investors, or governance/voting token holders or voters; (d) the economics of the arrangement, including financial incentives for participation, such as who is receiving investments and returns on investment, fees, payments for development or governance activities, or payments from inventories or treasuries; and (e) how a regulator might apply regulatory oversight over these natural persons or entities.⁴⁵

When considering persons and entities that may be Responsible Persons, it is important to note that governance mechanisms currently used for DeFi arrangements are not self-Human involvement typically is necessary to effectuate governance decisions, or to translate and implement proposals to make changes to a project's protocol, smart contracts or other code into usable code. So those making such proposals often must rely on others with technical control and skill (i.e., administrative access and requisite technical capability) to implement governance decisions. Code could also be designed and updated through the deployment of automated methodologies - including those that utilize artificial intelligence or other technologies. For such cases, the person or entity that is responsible for deploying or using such methodologies could also be considered in the assessment of Responsible Persons. ANNEX D gives a detailed analysis of how governance currently operates in DeFi and can be a useful starting point for an analysis.

Depending upon the facts and circumstances, such Responsible Person(s) can include, for example:

founders and developers of a project;

⁴⁵ Id. at 27 ("[C]ountries will need to evaluate the facts and circumstances of each individual situation to determine whether there is an identifiable person(s), whether legal or natural, providing a covered service. Marketing terms or self-identification as a DeFi is not determinative, nor is the specific technology involved in determining if its owner or operator is a [Virtual Asset Service Provider (VASP)]. Countries should apply the principles contained in the Standards in a manner that interprets the definitions broadly, but with regard for the practical intent of the functional approach. It seems quite common for DeFi arrangements to call themselves decentralized when they actually include a person with control or sufficient influence, and jurisdictions should apply the VASP definition without respect to self-description. Countries should be guided by the principle that the FATF intends to cover natural or legal persons who conduct the financial services covered in the definition as a business. If they meet the definition of VASPs, owners/operators should undertake ML/TF risk assessments prior to the launch or use of the software or platform and take appropriate measures to manage and mitigate these risks in an ongoing and forward-looking manner.").

- issuers of governance/voting tokens;
 - holders and/or voters of governance/voting tokens;
 - DAOs or participants in DAOs;
 - those with administrative rights to smart contracts and/or a protocol (i.e., with the ability to alter the coding or operation of the protocol to some degree);
 - those who have or take on the responsibility of maintaining/updating the protocol or other aspects of the project, such as access rights;
 - those with access to material information about the protocol or project to which other participants lack access;
 - those who are promoting use of the protocol through, for example, providing a user interface or otherwise facilitating interaction with the protocol, and/or releasing updates to the protocol;
 - those with custody (or effective control through an administrative key, voting structure, or otherwise) over user funds or assets, or with the ability to reverse transactions; and
 - those who are profiting, for example, through fees paid by users of the protocol.

Once a regulator identifies Responsible Persons, their activities should be assessed using Existing Frameworks or New Frameworks, as appropriate, in accordance with the principle of "same activity, same risk, same regulatory outcome."

Recommendation 3 - Achieve Common Standards of Regulatory Outcomes

A regulator should use Existing Frameworks or New Frameworks to regulate, supervise, oversee, and address risks arising from DeFi products, services, arrangements, and activities in a manner consistent with IOSCO Standards. The regulatory approach should be functionally based to achieve regulatory outcomes for investor protection and market integrity that are the same as, or consistent with, those that are required in traditional financial markets.

Guidance

DeFi products, services, arrangements, and activities that involve regulated financial instruments, including securities, in a particular jurisdiction should be subject to applicable laws. Regulators should consider how best to apply their Existing Frameworks or New Frameworks to DeFi products, services, arrangements, and activities. This may include, among other things, IOSCO Standards and laws applicable to issuers, exchanges, trading systems, market intermediaries (including brokers, dealers, investment advisors, custodians, clearing agencies, transfer agents, settlement services, and other service providers), as well as collective investment schemes, hedge funds and other private investment vehicles. The mapping below provides examples of such products, services,

arrangements, and activities that may fall within the scope of securities or other financial instrument laws. The mapping in <u>ANNEX F</u> details how the IOSCO Standards apply generally to DeFi products, services, arrangements, and activities.

In particular, the regulatory approach relating to DeFi should seek to achieve regulatory outcomes for investor and customer protection and market integrity that are the same as, or consistent with, those that are required in traditional financial markets. Regulators should also consider whether existing requirements need to be tailored or adapted to address DeFi-specific features and risks.

- Investor protection: A regulator should assess whether their regulatory framework requires material disclosures about DeFi products, services, arrangements, and activities and, if so, who provides them and how. Full, timely and accurate disclosure of material financial and non-financial information provides investors with information about the issuer, the risks and costs of investing in or using a particular DeFi product or service, its governance structure, description of applicable laws, and financial results or other information specific to the DeFi product or service. This may include an analysis of how disclosure standards within the jurisdiction apply to offers/sales of crypto assets in DeFi. A regulator should also assess how their regulatory framework would apply to prevent fraud, misconduct, and other risks to investors, such as those arising from conflicts of interest and interconnectedness.
- Market integrity: A regulator should also assess whether their regulatory framework imposes market integrity measures, including those relating to orderly trading with respect to a DeFi product, service, arrangement or activity and, if so, who should provide them and how. To the extent any particular DeFi arrangement (or part thereof) is identified as a CASP, the regulator should apply the recommendations as set forth in the CDA Report accordingly.⁴⁶

As regulators consider to what extent IOSCO Standards and regulatory frameworks within their jurisdiction might apply to particular DeFi products, services, arrangements, and activities, regulators should consider whether they replicate or in fact represent those in traditional finance or whether they are different and, if so, how the features of DeFi, such as technological and operational aspects, may impact the manner of applying existing requirements.

Mapping of Common DeFi Products, Service, Arrangements, and Activities to Traditional Finance

The following mapping may be a helpful starting point for determining what DeFi products, services, arrangements, and activities could fall within the remit of any particular

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See CDA Report, supra note 17.

jurisdiction. For a more detailed explanation of how common typologies in DeFi mimic traditional finance, see the 2022 Report⁴⁷ and ANNEX F to this report.

Potential Issuers of Financial Instruments, Including Securities: The following are non-exclusive examples of types of DeFi products, services, arrangements, and activities that could involve the issuance of financial instruments, including securities, in certain jurisdictions, or are similar to such activities in others, either currently or in the future:

- Aggregators and DEXs offering and selling their own crypto-assets, including governance tokens, LP tokens or other crypto-assets;
- Lending/borrowing products or services that offer and sell interests in their pools in exchange for crypto-assets. In these cases, market participants deposit crypto-assets into pools in exchange for an interest in the pool. These pool interests are represented by other crypto-assets or tokens that represent the depositor's pro rata value of the lending pool. The holder of the pool interest represented by the token can obtain value from it by trading it in secondary markets, borrowing against it, or by presenting it to the pool for redemption of the crypto-asset deposited and all accrued pro rata income.
- Lending/borrowing products or services that offer and sell other crypto-assets, such as governance tokens, that may give the holder particular rights, whether to vote on aspects of the lending/borrowing product or service, or other economic interests in the lending/borrowing product or service.
- An AMM or other liquidity pool that offers and sells interests in the pool of cryptoassets that is the AMM. As with the borrowing and lending product tokens that are issued in exchange for crypto-assets deposited in the pools, AMM tokens are also redeemable by the holder for the crypto-asset plus the pro rata income from the pool.
- A developer, founder or promotor of DeFi protocols also may directly offer and sell crypto-assets, including in the form of governance tokens, or other crypto-assets. These offers and sales may occur at the initial funding of the protocols or may occur on an ongoing basis with sales of crypto-assets from the treasury of these protocols.
- Aggregators and DEXs also may be involved in offering and selling crypto-assets or tokens of other issuers, thereby participating in distributions of financial instruments, including securities. This may occur through the aggregator or DEX's operations or offerings through which creators or operators of DeFi protocols may distribute governance tokens or other crypto-assets, including crypto-assets that are placed in treasury for distribution.
- The issuance of derivatives, including derivatives/synthetics on traditional financial instruments, as well as the issuance by a cross-chain bridge, wrapping of a token, or in connection with liquid staking.

Potential Market Intermediaries: There are many DeFi products, services, arrangements, and activities that involve market intermediary participants or activities.

⁴⁷ 2022 Report, supra note 5.

This includes exchange, broker, dealer, investment advisor, custodian, clearing agency, transfer agent, and settlement activities, as well as providers of other services including proxy advisory and credit rating services. The following are non-exclusive examples of types of DeFi arrangements that could involve market intermediary activities in certain jurisdictions, or are similar to such activities in others, either currently or in the future:

- Aggregators, DEXs, and other products and services facilitate the exchange of crypto-assets. DEXs can involve order book exchanges, through which DEXs are performing functions typically associated with exchanges. DEXs can also use AMMs, also known as liquidity pools, which provide liquidity for trading markets. AMMs may be seen to be acting as liquidity providers or market makers thus engaging in buying and selling activities like brokers or dealers.
- Aggregators and DEXs also provide services to users to enable them to trade with multiple AMMs. These activities are akin to broker or dealer activity as well.
- The operation of lending/borrowing products also may involve broker or dealer
 activity, particularly to the extent that the crypto-assets in the pool are financial
 instruments, including securities, and the lending product is engaging in lending
 activities with respect to the crypto-assets that are financial instruments, including
 securities.
- Each of the AMMs and the lending products may also be engaging in custodial
 activities and acting as counterparties, due to the manner in which the products
 engage in holding customer crypto-assets and trading customer crypto-assets.
 Whether these products and protocols may be acting as custodians of crypto-assets
 may depend, in part, on how the crypto-assets are transferred to the smart contracts.
- Aggregators enable users to seek the most favorable terms across a variety of
 protocols. Aggregators allow users to source bids and offers, monitor prices and
 execute transactions across multiple protocols and trading platforms from a single
 interface. These activities likely involve exchange, broker or dealer, or investment
 advisor activity, depending on the particular facts.
- Yield aggregators are platforms of investment opportunities which, depending on how they are structured, provide the functions of either or both a broker and/or an investment advisor. Some yield aggregators provide a type of asset management which has similar characteristics to automated investment or robo-advisory services.
- Portfolio aggregators' primary functionality gives investors visibility into their current positions and allows them to execute transactions from the aggregator's interface thus providing the functions of a broker or dealer.
- Aggregators specializing in governance protocols may centralize proposals and voting across various DAOs, providing recommendations on how to vote on certain proposals. In this capacity, these types of aggregators may be acting as

proxy advisors, if voting is delegated to the protocol. Investors may exchange their voting right(s) for compensation in such arrangements.

Promotors of DeFi products or services.

Potential Collective Investment Schemes: DeFi products, services, arrangements, and activities may fall within the scope of collective investment schemes (retail/non-retail), hedge funds and other private investment vehicles. Further, DeFi activities and participants that involve operation, marketing, management and advising with respect to these funds may be subject to laws that apply to such activities in many jurisdictions. The following are non-exclusive examples of types of DeFi activities that could involve collective investment schemes (retail/non-retail), hedge funds or other private investment vehicles, and those who operate, market, manage and advise with respect to such funds in certain jurisdictions, or are similar to such activities and participants in others, either currently or in the future:

- Certain aggregators and DEXs may be creating collective investment schemes, hedge funds or other private investment vehicles through the use of AMM arrangements. For example, AMMs typically provide a means for participants to deposit two or more crypto-assets into a smart contract (or liquidity pool) and receive a crypto-asset representing the interest in the pool (and income therefrom). Market participants are then able to use aggregators, DEXs and other service providers to engage in trading activities with the pools. The pools may constitute collective investment schemes. While some of this activity may involve broker or dealer activity, the activity can also include the provision of investment advice. For example, some aggregators provide services that offer investment opportunities to users, such as by obtaining for users the best prices for crypto-assets.
- Lending/borrowing protocols also may involve collective investment schemes, funds and other private investment vehicles. Lending products are pools of crypto-assets deposited by holders in exchange for another token representing the interest in the pool. The lending product then enables other crypto-asset market participants to borrow the crypto-assets in exchange for interest payments. The pooled nature of these lending products may satisfy the definition of collective investment scheme in many jurisdictions. Operators of lending and borrowing protocols also may be viewed, depending on their structures, as investment advisors or sponsors of the collective investment scheme. Initially at least, these operators set the terms of the smart contract arrangements, such as the crypto-asset pairs available to trade, maintain the algorithm to update interest rates, set utilization rates, and address instances of default, including maintenance of a reserve factor.
- Some DeFi products may be structured and operate as hedge funds (or other private funds, or retail/non-retail collective investment schemes), depending on applicable laws. For example, vaults are a mechanism for retail investors to participate in allegedly on-chain hedge funds by deploying capital into single or multi-strategy pools run by smart contracts. The sale of the interests in these pools may be

collective investment vehicles as they are offered to the public or, if limited to institutions, may be hedge funds. There are also hedge funds that invest or interact with DeFi activities, products and services and the IOSCO Standards applicable to hedge funds would apply to these hedge funds as well.

Potential Exchange/Trading Systems: There are DeFi products, services, arrangements, and activities that could involve exchange and trading system activity. This includes exchange and over the counter activities, both in cash (spot) crypto-asset and derivatives markets. The following are non-exclusive examples of types of DeFi activities and participants that could involve exchange and trading system activity subject to regulation in certain jurisdictions, or are similar to such activities in others, either currently or in the future:

- Aggregators and DEXs facilitate the exchange of crypto-assets. DEXs can involve order book exchanges, through which DEXs are performing functions typically associated with exchanges. DEXs can also use AMMs, also known as liquidity pools, that provide liquidity for trading markets.
- Aggregators and DEXs facilitate the trading of crypto-assets. These activities can involve exchange and trading system activities, and also may operate as an issuer or primary distribution mechanism for new tokens or crypto-assets.
- Aggregators and DEXs also may be acting as a market for derivatives. These kinds
 of derivatives trading activities include providing protection or selling protection
 against loss (similar to swaps activities), selling synthetic exposures based on the
 value of other assets (which could include securities), and engaging in perpetual
 futures trading activity.
- Certain lending/borrowing products may act as exchanges or trading systems depending on the particular structure.
- Many protocols enable automated, and often high-speed, trading, often by sophisticated, well-capitalized entities. Algorithmic trading is common in the DeFi space, and bots are employed to run various trading strategies or identify arbitrage opportunities. Oracles and bridges offer connectivity with off-chain data and between DeFi protocols.

Potential Clearing and Settlement Entities: The following are non-exclusive examples of types of DeFi activities and participants that could involve clearing and settlement activity subject to regulation in certain jurisdictions, or are similar to such activities in others, either currently or in the future:

Aggregators and DEXs use DLT to transfer ownership of crypto-assets. Depending
on the particular protocol, these crypto-assets may be held within an associated
smart contract, nominally on behalf of the user of the protocol. Changes in
ownership of crypto-assets within DEX and AMMs likely involve clearing and
settlement activity.

- Lending/borrowing protocols, as with DEXs and AMMs, generally rely on associated smart contracts to hold crypto-assets and to effectuate transfers of crypto-assets in associated lending pools. Changes in ownership of crypto-assets lending/borrowing protocols likely involve clearing and settlement activity.
- The activities of certain types of aggregators may also be viewed as clearing and settlement activity. For example, yield aggregators are platforms of investment opportunities which, depending on how they are structured, can provide the functions of either or both a broker and/or an investment advisor while potentially acting as a central counterparty. These activities may also operate as settlement systems, depositories, or central counterparties depending on their structure.
- Layer 1 blockchains could themselves be carrying out clearing and settlement activities.

Having undertaken the analysis described above, if a regulator determines that the DeFi arrangement (or any aspect of it) falls within its jurisdictional remit, the regulator should apply its regulatory framework in accordance with the principle of "same activity, same risk, same regulatory outcome."

Regulators may also consider what other laws might apply within their jurisdiction (e.g., data protection, consumer protection, cybersecurity, advertising regulation, legal ownership, etc.) and to what extent they may work with other authorities within their jurisdiction to mitigate risks from DeFi.⁴⁸

Regulators should consider whether applicable frameworks may need to be strengthened, augmented or clarified to address any gaps in applicable frameworks to avoid regulatory arbitrage between traditional financial markets and crypto asset and DeFi markets.

Recommendation 4 - Require Identification and Addressing of Conflicts of Interest

In applying Existing Frameworks or New Frameworks, a regulator should seek to require providers of DeFi products and services and other Responsible Persons, as appropriate, to identify and address conflicts of interest, particularly those arising from different roles and capacities of, and products and services offered by, a particular provider and/or its affiliates. These conflicts should be effectively identified, managed and mitigated. A regulator should consider whether certain conflicts are sufficiently acute that they cannot be effectively mitigated, including through effective systems and controls, disclosure, or prohibited actions. This may

⁴⁸ Regulators should also assess the AML/CFT risks of DeFi arrangements and require adherence to FATF Standards. See FATF, TARGETED UPDATE ON IMPLEMENTATION OF THE FATF STANDARDS ON VIRTUAL ASSETS AND VIRTUAL ASSET SERVICE PROVIDERS 4 (June 2023), available at https://www.fatfgafi.org/en/publications/Fatfrecommendations/targeted-update-virtual-assets-vasps-2023.html ("Jurisdictions should assess illicit finance risks of DeFi arrangements, consider how DeFi arrangements fit into their AML/CFT frameworks, and share their experiences, practices and remaining challenges with the FATF's global network to mitigate the risk of DeFi arrangements.").

include requiring more robust measures such as legal disaggregation and separate registration and regulation of certain activities and functions to address this Recommendation.

Many DeFi arrangements and activities today are being conducted in a manner that presents conflicts of interest. DeFi participants may be acting in roles and capacities that create conflicts of interest. Such conflicts can arise, for example, if the provider of a DeFi product or service itself has a financial interest derived from user or third-party activities, an ownership interest in a related third-party, or a favorable arrangement with a particular related party. In particular, the provider may take advantage of their control or influence over the governance of the DeFi arrangement to promote proposals or initiatives that inure to their benefit financially. Conflicts could also arise if the provider is engaged in multiple activities in a vertically integrated matter, either themselves or with affiliated parties. For example, the provider may operate a trading platform while simultaneously being a counterparty to transactions with a user as a market maker or employ technologies like bots or algorithms to transact with users. Indeed, a fundamental conflict may exist if developers, founders and early investors lack the incentive to maintain a project after receiving an initial investment and are instead incentivized to exit the project.

Because of the complexities and opacities in DeFi arrangements, discussed in this report and its Annexes, investors may be unaware that such conflicts may exist. In fact, claims that DeFi is completely transparent due to the public nature of blockchains may mislead investors to believe there are no hidden conflicts, therefore exacerbating risks. Aggressive marketing tactics, behavioral engagement practices, and claims about profitability can further entice investors into arrangements that may put the interests of others over the interests of the investor. These could include the promotion of highly levered strategies or the re-hypothecation of investor assets into a cascade of products and services that may provide benefits to promoters of these strategies in the form of increased fees or kick-backs, for example. It may be unclear to a user the role and capacity in which a provider of a product or service is acting at all times. Concerns around conflicts of interest are further heightened if the provider of the DeFi product or service is in a fiduciary or similar relationship with a user.

A regulator should require Responsible Persons, including providers of DeFi products and services, to be responsible for identifying, managing and mitigating conflicts of interest. A regulator should consider whether certain conflicts are sufficiently acute that they cannot be effectively mitigated, including through effective systems and controls, disclosure, or prohibited actions, and may require more robust measures such as legal disaggregation and separate registration and regulation of certain activities and functions.

A regulator should also seek to require Responsible Persons, including providers of DeFi products and services, to identify, and to the extent practicable, address conflicts of interest that do not directly involve the providers but have an adverse impact on their users/investors.

MEV

There are conflicts of interest that may not directly involve the provider of a DeFi product or service but nevertheless have an adverse impact on the users/investors of the DeFi product or service. One example of such a conflict of interest in the DeFi ecosystem presents itself in connection with certain MEV strategies. Among other things, MEV refers to the exploitation of mempool data⁴⁹ by persons or entities participating in a blockchain's consensus mechanism (i.e., miners, validators, or other participants) to maximize their profit by choosing and sequencing proposed transactions from the mempool and/or inserting other transactions that are added to a block to be appended to a blockchain. However, the ability to reorder, insert, and otherwise control transactions enables conduct that in traditional markets would be considered manipulative and unlawful.50 This activity can result in transactions failing to achieve execution on the terms expected. Such activity could take the form of typical MEV exploits, the most common involving "front-running," "back-running," and "sandwich attacks" (see ANNEX B):

- "Front-running" occurs when a participant attempts to execute their own transaction before a pending mempool transaction to realize a profit. A miner/validator could execute this attack through re-ordering transactions on a proposed block or a participant might attempt to pay a higher gas fee or collude with a miner/validator to move their transaction ahead of the pending transaction.51
- "Back-running" occurs when a participant seeks to have their transaction executed immediately after a pending transaction. This might be profitable if the pending transaction is to create a new pair for trading on an AMM. An attacker can employ back-running bots that find a new token pair listing and place a transaction order immediately after the initial liquidity to purchase as many tokens as possible, leaving supply in the market depleted.
- A "sandwich attack" is when a participant places two transactions around, one immediately before and another right after, a pending transaction. Searchers typically use sandwich attacks to extract MEV from unsuspecting traders on decentralized exchanges by manipulating the price of an asset. For example, a trader might identify a token that a victim is about to buy and trades to push the price of the asset up, then sells immediately after the victim's buy order has further increased the price.

The mempool consists of transactions that are waiting to be processed by the blockchain's miners/validators.

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In certain jurisdictions, these MEV strategies may already be subject to, or prohibited by, existing 50 laws and regulations.

One study calculates the losses due to frontrunning attacks between May 2020 and April 2021 to have amounted to more than \$100 million USD. See Agostino Capponi et al., Inefficiencies in Public Distributed Ledgers (Dec. 31, 2021), available at https://papers.ssrn.com/sol3/papers.cfm?abstract_id=3997796.

• Regulators should seek to hold a provider of a DeFi product or service responsible for identifying and, to the extent practicable, managing and mitigating the impact of MEV strategies used by miners/validators on the underlying blockchain on which the provider chooses to operate or offer the product or service. For example, for a DeFi arrangement that facilitates the trading of regulated financial instruments, the design of the trading mechanism could mitigate the impact of MEV to users/investors trading these instruments. There may be additional conflicts that would need to be addressed if the DeFi product or service provider itself were to have an economic interest in the MEV activity, such as through payment for order flow to certain miners/validators or others.

<u>Recommendation 5 - Require Identification and Addressing of Material Risks, Including Operational and Technology Risks</u>

In applying Existing Frameworks or New Frameworks, a regulator should seek to require providers of DeFi products and services and other Responsible Persons, as appropriate, to identify and address material risks, including operational and technology risks. These risks should be identified and effectively managed and mitigated. A regulator should consider whether certain risks are sufficiently acute that they cannot be effectively mitigated and may require more robust measures to address this Recommendation.

A regulator should require providers of DeFi products and services and other Responsible Persons, as appropriate, to establish and maintain a risk management framework that addresses risks arising from the product or service itself, the participants and arrangement, and the market in which the provider of the product or service operates. Where appropriate and consistent with jurisdictional mandates, regulators could impose regulatory requirements to address the risks through means such as the application of "fit and proper" standards.

DeFi arrangements and activities introduce unique operational and technological risks, including those stemming from the underlying DLT, smart contracts and protocols, governance structures, oracles, and bridges. These risks can arise from any one layer of the tech stack that underlies DeFi, as well as from interdependencies between and among those layers of the tech stack. A detailed description of the DeFi tech stack and inherent technological risks can be found in the 2022 Report and in the Annexes to this report. These include, among others, risks arising from the operational interconnectedness of DeFi, due in part to the composability and modularity inherent to DeFi protocols; the proliferation of exploits targeting vulnerable code across protocols' similar code; and a concentration of critical service providers and other participants within DeFi. A regulator should consider how such risks can be identified and effectively managed and mitigated.

Regulators should evaluate, as with other automated or software code based activities in traditional financial products and services, how the automation of certain functions in DeFi arrangements works and consider (a) risks posed by the use of unique or different

technology that is not already used in traditional financial markets or otherwise covered by existing regulatory frameworks; (b) how technology, generally, may assist in identifying, managing and mitigating risks in automated products and services; and (c) how regulators may use technology to facilitate supervision and oversight, as appropriate, within a jurisdiction's regulatory framework, and to enhance the IOSCO mandates of investor protection and market integrity.

A provider of DeFi products and services often has control over the smart contracts incorporated into the product or service. A regulator should ascertain what type of control a provider has over a product or service, including through administrative rights to alter smart contracts. A regulator should seek to hold those with control or sufficient influence over the operational or technological features of a DeFi product or service responsible for identifying, managing, and mitigating risks, such as the risk of theft or loss of assets through operational or cybersecurity failures.

A provider of DeFi products and services can rely significantly upon oracles and cross-chain bridges for interoperability with off-chain data or other blockchains. When this is the case, a regulator should consider applying identification, management, and mitigation measures similar to those applied to Responsible Persons in traditional finance, even if certain functionality has been outsourced to affiliated or unaffiliated service providers. In this case, a regulator should consider ways to require the provider to identify, mitigate and manage risk by, for example, requiring adequate due diligence and ongoing monitoring of such service providers, the evaluation, mitigation and management of risks, the implementation of business continuity measures, and the like.52

A regulator should consider whether certain risks are sufficiently acute that they cannot be effectively managed or mitigated and may require more robust measures to address this Recommendation.

Oracles and Bridges

Those who provide DeFi products and services often rely on oracles and cross-chain bridges because blockchains essentially operate in siloed environments. Oracles provide connectivity with off-chain data, such as pricing data. Cross-chain bridges provide connectivity with other blockchains. For example, such a bridge can permit a holder of crypto-assets issued on one blockchain to convert to a crypto-asset usable on another, which may facilitate access to liquidity. Such a bridge can also permit the transmission of data between smart contracts of a protocol that is deployed on multiple blockchains, so as to effectuate certain parameter changes to the protocol. However, oracles and bridges present significant technological and operational risks. Those risks are detailed in ANNEX E. For example, both oracles and cross-chain bridges have been prone to significant hacks and exploits. One industry report calculates that DeFi protocols lost

See IOSCO, PRINCIPLES ON OUTSOURCING (Oct. 2021), available at https://www.iosco.org/library/pubdocs/pdf/IOSCOPD687.pdf; see also FSB, ENHANCING THIRD-PARTY RISK MANAGEMENT AND OVERSIGHT (June 2023), available at https://www.fsb.org/wpcontent/uploads/P220623.pdf.

more than \$400 million in 41 separate oracle manipulation attacks in 2022 (see <u>ANNEX</u> \underline{E}), and that 64% of the \$3.1 billion stolen from DeFi protocols in 2022 was attributable to

Regulators should assess whether those providing DeFi products and services present operational and technological risks, including those due to reliance on oracles and crosschain bridges, among other things. Those risks could be amplified, given particular governance structures that may not be suited to addressing technological and operational risks in a timely and effective manner. Regulators should seek to require providers of DeFi products that rely on oracles and cross-chain bridges to identify, manage and mitigate the risks posed by such technology. In some jurisdictions, regulators may choose to require more robust measures.

Recommendation 6 - Require Clear, Accurate and Comprehensive Disclosures

In applying Existing Frameworks or New Frameworks, a regulator should seek to require providers of DeFi products and services and other Responsible Persons, as appropriate, to accurately disclose to users and investors comprehensive and clear information material to the products and services offered in order to promote investor protection and market integrity.

Information about DeFi products, services, arrangements, and activities is often technologically complex and/or opaque. This may arise due to a number of factors, including, but not limited to, the complex nature of the products or services themselves or of the underlying tech stack, and opacities in certain aspects of the arrangement's business, operations and governance. Consequently, the complexity and opacity of DeFi products, services, arrangements, and activities can result in significant information asymmetries, where users and investors are not fully apprised of the nature of the products, services, arrangements, and activities with which they are interacting and the associated risks that they may be exposed to, leading to investor harm.

To address this, a regulator should seek to require providers of DeFi products and services and, as appropriate, other Responsible Persons, to accurately disclose to users and investors comprehensive and clear information about the material aspects of the provider's products, services, business, operations, governance, risks, conflicts of interest, and financial condition. Disclosures should include a plain-language description of material risks to the user or investor. It should also include a description of any crypto-assets involved in the product or service. This may include a prospectus or an equivalent document from an issuer of a crypto-asset or other financial instruments. Disclosure should also include a description of the governance and lines of responsibility and accountability within the DeFi arrangement, including identifying key persons and the roles they play in the provision of the product or service as well as, as appropriate, related parties and outside service

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cross-chain bridges⁵³ (see ANNEX B).

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⁵³ CHAINALYSIS, *supra* note 21, at 58.

providers. Information in marketing and promotional communications should be consistent with such disclosures.

Regulators should require providers of DeFi products and services and other Responsible Persons to disclose any material risks associated with the underlying technologies used to deliver these products and services, as appropriate and in line with jurisdictional legal frameworks.

Recommendation 7 - Enforce Applicable Laws

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A regulator should apply comprehensive authorization, inspection, investigation, surveillance, and enforcement powers, consistent with its mandate, to DeFi products, services, arrangements, and activities that are subject to Existing Frameworks and New Frameworks, including measures to detect, deter, enforce, sanction, redress and correct violations of applicable laws and regulations. A regulator should assess what technological knowledge, data and tools the regulator needs to enforce applicable laws.

Guidance

Consistent with the principle of "same activity, same risk, same regulatory outcome," DeFi products, services, arrangements, and activities should be regulated in a manner consistent with the aim of promoting investor protection and preventing the same types of misconduct and fraudulent and manipulative practices that exist in traditional financial markets, as well as any additional risks presented by DeFi. Regulators should have the powers and capabilities to enforce applicable regulatory, supervisory and oversight requirements, including authorization and licensing requirements, and the ability to undertake inspections or examinations, as appropriate and consistent with their respective mandates. Regulators should seek to bring enforcement actions or other corrective actions against Responsible Persons for fraud and market abuse, in addition to other failures of regulatory compliance, where appropriate. This includes misuse of material, non-public information, insider dealing, market manipulation, issuing false and misleading statements, and misappropriation of funds, among other conduct. The guidance associated with Recommendation 2 can be considered in identifying the appropriate parties that could be held responsible from a regulatory standpoint.

As do other market participants, DeFi market participants may seek to structure their arrangements and activities to avoid regulation, offer products and services within a jurisdiction while operating from another jurisdiction, and/or operate in noncompliance with applicable existing laws, thereby challenging the ability of jurisdictions to regulate, supervise, oversee, and enforce applicable laws, which increases the risk of regulatory arbitrage and weakens investor protections.

In order to address these challenges, regulators should assess whether they have the appropriate powers, tools and resources.⁵⁴ Regulators should seek methods to obtain the

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Regulators should also consider means to engage and inform investors about DeFi activities and risks, including to enhance investors' understanding of the role of the regulator in relation to DeFi

appropriate data, tools and expertise they will need to conduct investigatory and enforcement activities. This may include crypto-asset market data, including blockchain data, as well as blockchain analytical tools and techniques.

Recommendation 8 - Promote Cross-Border Cooperation and Information Sharing

A regulator, in recognition of the cross-border nature of DeFi products, services, arrangements, and activities, should have the ability to cooperate and share information with regulators and relevant authorities in other jurisdictions with respect to such arrangements, and activities. This includes having available cooperation and information sharing arrangements and/or other mechanisms to engage with regulators and relevant authorities in other jurisdictions. These should accommodate the authorization and on-going supervision of regulated persons and entities and enable broad assistance in enforcement investigations and related proceedings.

Guidance

The owners and operators of DeFi products and services often are based in multiple jurisdictions and/or offer their DeFi products and services on a cross-border basis. Those with control or sufficient influence over the operation of DeFi arrangements can be geographically dispersed across a number of jurisdictions. At the same time, there is often a lack of transparency regarding the ownership and operation of the DeFi products and services, including a lack of available information on the identity and location of the owners and operators of the DeFi protocols and the size and scope of the DeFi arrangements and activities occurring in particular jurisdictions. To the extent that such information is available, the information is often highly complex or technical and/or otherwise limited in some way, including due to the pseudonymous nature of many DeFi activities.

Some DeFi arrangements and activities may claim not to have a geographical location or will claim they have no presence in a particular jurisdiction. Some may point to the fact that they employ a distributed governance structure or that various actors involved in the arrangement or activity are geographically dispersed. Some may choose an organizational structure that is called a *Decentralized Autonomous Organization* or DAO or they may legally organize in one jurisdiction, have personnel in another jurisdiction, and offer products and/or services in yet another jurisdiction. Regulators should consider whether their regulatory framework captures whatever activity is occurring in their own jurisdiction and should consider ways to cooperate with other jurisdictions to the fullest extent practicable in order to address risks to investors and markets within their own jurisdictions.

activities and to provide investors with tools to assess the risks associated with particular DeFi activities and to protect themselves against fraud and other abuses. In so doing, regulators could consider investor education techniques, including those discussed in the IOSCO, RETAIL MARKET CONDUCT TASK FORCE FINAL REPORT (March 2023), available at

https://www.iosco.org/library/pubdocs/pdf/IOSCOPD730.pdf, and in the IOSCO, INVESTOR EDUCATION ON CRYPTO-ASSETS FINAL REPORT (Dec. 2020), available at https://www.iosco.org/library/pubdocs/pdf/IOSCOPD668.pdf.

Recognizing the cross-border nature of DeFi products, services, arrangements, and activities, regulators should have the ability to cooperate and share information to assist one another to fulfill their respective mandates relating to such products, services, arrangements, and activities. Regulators also should have in place effective cooperation and information sharing arrangements and/or other mechanisms to engage with relevant authorities in other jurisdictions. These should allow regulators to provide broad assistance in enforcement investigations and related proceedings and, as appropriate, the authorization and supervision of regulated DeFi market participants. Cooperation and information sharing should also aim to facilitate a shared understanding of activities and risks of DeFi across jurisdictions. Regulators should aim to share information and cooperate in a timely and effective way, especially when there is a risk of investor or market harm. Regulators should consider ad hoc arrangements to address matters of urgency.

To enhance effective supervision of the markets, regulators should consider bilateral and/or multilateral cooperation arrangements beyond the enforcement context, as appropriate, such as supervisory colleges, networks, regional arrangements, or other forms of cross-jurisdictional cooperation, to support rigorous and effective ongoing supervision of DeFi activities and arrangements operating across multiple jurisdictions.

Regulators should cooperate with each other and share information, both domestically and internationally, consistent with their respective mandates and applicable legal requirements and, to the greatest extent possible, to promote effective information sharing to assist one another with fulfilling their respective mandates and, where appropriate, to encourage the consistency of outcomes relating to DeFi, including cooperation and information sharing in the following areas:

- Emerging Risks: Regulators should cooperate and share information relating to DeFi activities occurring across jurisdictions, for effective risk monitoring of DeFi activities, and to facilitate a shared understanding of related risks, including to market integrity, investor protection, and financial stability. In particular, regulators should share information on emerging trends and other developments with the potential for significant cross-border impacts, as well as information to assist with understanding and analyzing DeFi arrangements (i.e., in furtherance of these Recommendations). Sharing typologies of DeFi arrangements and activities, as appropriate, may also assist in analyzing and comparing observed behavior.
- Registration/Authorization: Regulators should cooperate and share information relating to requests by other regulators regarding firms engaged in DeFi activities to become registered and/or authorized to conduct business in a particular jurisdiction, for example, as a type of trading venue authorized within a particular jurisdiction. Among other things, regulators should have the ability to share information relevant to the requesting regulator's decision whether to register and/or authorize such firms, provided that any confidentiality requirements are satisfied. Examples of information that should be shared may include the ownership and operation of the DeFi products and services in which the firm is engaged, and

- other relevant features of the DeFi activities of the firm, including the size and scope of the DeFi products and services offered by the firm and the firm's compliance with relevant applicable laws and regulations across jurisdictions.
- Supervision: Regulators should also seek to enable cooperation and information sharing to further the effective supervision of DeFi activities, consistent with their respective jurisdictions' laws and regulations. Regulators should use existing cooperation and information sharing arrangements (e.g., memoranda of understanding, ad-hoc arrangements, supervisory colleges, networks), to the fullest extent practicable, or consider establishing new bilateral or multilateral cooperation and information sharing arrangements that may encompass additional subject areas or jurisdictional authorities, to support the effective ongoing supervision of DeFi activities operating across multiple jurisdictions. Regulators should utilize such arrangements to provide assistance to one another with, among other things, examinations and inspections of registered firms engaged in DeFi activities, including to provide other regulators with access to the books and records of those firms, if appropriate.
- Enforcement: IOSCO has in place effective mechanisms for cross-border cooperation between financial market authorities to enable the enforcement of laws and regulations applicable to DeFi. Information requests relating to DeFi are captured by IOSCO's Multilateral Memorandum of Understanding (MMoU)⁵⁵ and Enhanced Multilateral Memorandum of Understanding (EMMoU)⁵⁶, premised on the underlying principle of "same activity, same risk, same regulatory outcome." Regulators should use the MMoU and EMMoU to the greatest extent possible to enable cooperation and information sharing relating to DeFi activities. Beyond the MMoU and EMMoU, regulators should also share information with one another and, where relevant, with law enforcement authorities, and work together to stop abusive and criminal behaviors, including financial crime and money laundering, and to mitigate risks to investors.

Recommendation 9 - Understand and Assess Interconnections Among the DeFi Market, the Broader Crypto-Asset Market, and Traditional Financial Markets

When analyzing DeFi products, services, arrangements, and activities, a regulator should seek to understand the interconnections among DeFi arrangements, the broader crypto-asset market, and also the traditional financial markets. In so doing, a regulator should consider how those interconnections impact risks to

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IOSCO, MULTILATERAL MEMORANDUM OF UNDERSTANDING CONCERNING CONSULTATION AND COOPERATION AND THE EXCHANGE OF INFORMATION (rev. May 2012), available at https://www.iosco.org/library/pubdocs/pdf/IOSCOPD386.pdf.

IOSCO, ENHANCED MULTILATERAL MEMORANDUM OF UNDERSTANDING CONCERNING CONSULTATION AND COOPERATION AND THE EXCHANGE OF INFORMATION (2016), available at https://www.iosco.org/about/pdf/Text-of-the-EMMoU.pdf.

investor protection and market integrity, and how they might identify further regulatory touchpoints, including potential responsible persons. A regulator should, as appropriate, seek to employ, maintain and develop suitable methods for monitoring and assessing DeFi products, services, arrangements, and activities.

Guidance

Case 1:24-cv-01858-ACR

The 2022 Report discussed the importance of centralized crypto-asset trading, lending and borrowing platforms and stablecoins to DeFi. Specifically, centralized platforms are often the on-ramp to participation in DeFi, including by retail investors, and stablecoins facilitate participation in DeFi arrangements, serving as the perceived stable value asset used as one side of a trading pair, or in liquidity or collateral pools to fund or collateralize DeFi activities. Thus, events (such as liquidity crises) that cause shocks or disruptions on centralized platforms or to stablecoins likely will impact DeFi markets. Indeed, some recent crypto-asset market events and their impact on DeFi are discussed in <u>ANNEX A</u>. Regulators should consider how interconnectedness within the crypto-asset markets will impact investor protection and market integrity in DeFi markets. Regulators should also consider whether steps should be taken with respect to centralized platforms and stablecoins and to adhere to the recommendations and guidance contained in the CDA Report⁵⁷ to provide additional investor and market protections.

Regulators should consider how regulatory touchpoints in the DeFi market, the broader crypto-asset market, and traditional financial markets could provide information and, where appropriate, regulators should require the relevant Responsible Persons to apply investor and market protections. Regulators should consider ways to identify these touchpoints, including through surveys of registered entities or through other regulatory frameworks, such as those that pertain to anti money laundering (AML)/countering the financing of terrorism (CFT).

Regulators should understand and assess risks relating to the exposures of traditional financial market participants (i.e., existing regulated entities) to DeFi structures (e.g., through hedge funds, private equity funds, intermediaries, broker or dealers, investment advisers, transfer agents, clearing agencies, custodians, and other institutional participants). Regulators should consider additional approaches to provide important investor, customer and market protections for DeFi market participants, including through their regulation and oversight of traditional financial market participants or centralized crypto-asset platforms involved, directly or indirectly, in DeFi arrangements or activities.

Given the potential effects of DeFi on TradFi, it is important to be able to monitor and evaluate interlinkages between DeFi and traditional financial markets. The following outlines some ways that crypto-assets could touch traditional entities, though these are not exhaustive of all types of connectivity:⁵⁸

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CDA Report, supra note 17.

See also FSB DeFi Report, supra note 12, at 25-26; BIS, THE CRYPTO ECOSYSTEM: KEY ELEMENTS AND RISKS 15 (July 2023), available at https://www.bis.org/publ/othp72.pdf ("[R]isks along the bank-crypto nexus extend beyond (direct and indirect) exposures because of the potential negative externalities

Entity	Potential Relationship to DeFi	
Issuer of financial instrument, including securities	Issue crypto-asset; engage in crypto-asset-related operational activities (e.g., mining/validating); hold crypto-assets (e.g., in corporate treasury); participate in governance	
Funds (registered)	Invest in DeFi related investments or have exposure to DeFi products/services; participate in governance	
Broker/dealer/investment adviser	Conduct services relating to DeFi products/services; link customers to DeFi products/services	
Banks/trusts/money services businesses/credit card issuers	Provide services relating to DeFi products/services; invest in DeFi products/services; link customers to DeFi products/services	
Third party service providers (auditors/accountants/transfer agents/credit rating entities)	Provide services to DeFi products/services	

Regulators should assess potential data sources to monitor interconnections with traditional markets. Such data or indicators might pertain to:

- Traditional financial services being provided to DeFi participants (i.e., banking, loans, holding or managing reserves, fiat to crypto-asset exchange, etc.)
- Correlations between crypto-assets and certain traditional assets (and changes over time)59

associated with banks channeling funds into the crypto ecosystem, given their role as the mainstay of the monetary system. Along with banks, other financial entities such as family offices, hedge funds and asset managers could also increase their crypto investments, lured by the potentially high returns.").

See Tara Iyer, Cryptic Connections: Spillovers between Crypto and Equity Markets, GLOBAL FIN. 59 STABILITY NOTES No 2022/001 (Jan. 11, 2022), https://www.imf.org/en/Publications/global-financialstability-notes/Issues/2022/01/10/Cryptic-Connections-511776.

- Document 26-3 Filed 02/04/25 Page 85 of 156
- Spillovers between crypto-asset prices and select traditional assets (and changes over time) (e.g., computed by the application of econometric models)⁶⁰
- · Size/reserves of stablecoins
- VC/private institutional investment in crypto-assets
- Derivative/synthetic exposure to crypto-assets
- Crypto-assets that are derivatives/synthetics of real-world assets
- The use of real-world assets as collateral or components in DeFi activities

Id.

SECTION IV. QUESTIONS FOR PUBLIC CONSULTATION

- 1. Do you agree with the Recommendations and guidance in this Report? Are there others that should be included?
- 2. Do you agree with the description of DeFi products, services, arrangements, and activities described in this Report? If not, please provide details. Are there others that have not been described? If so, please provide details.
- 3. Do you agree with the Report's assessment of governance mechanisms and how they operate in DeFi? If not, please provide details.
- 4. Do you agree with the risks and issues around DeFi protocols identified in this Report? If not, please provide details. Are there others that have not been described? If so, please provide details. How can market participants help address these risks and/or issues, including through the use of technology? How would you suggest IOSCO members address these risks and/or issues?
- 5. Do you agree with the description of data gaps and challenges in the Report? If not, please provide details. Are there others that have not been described? If so, please provide details. How can market participants address these data gaps and challenges, including through the use of technology? How would you suggest IOSCO members address data gaps and challenges?
- 6. Do you agree with the application of IOSCO Standards to DeFi activities contained in this Report? Are there other examples of how IOSCO Standards can apply?
- 7. Is there any additional guidance that you would find relevant to help IOSCO members comply with these Recommendations? If so, please provide details.
- 8. Given the importance of the application of IOSCO Standards to DeFi activities, are there technological innovations that allow regulators to support innovation in DeFi/blockchain technologies while at the same time addressing investor protection and market integrity risks? If so, please provide details.
- 9. Are there particular methods or mechanisms that regulators can use in evaluating DeFi products, services, arrangements, and activities, and other persons and entities involved with DeFi? If yes, please explain.
- 10. Do you find the interoperability between this report and the IOSCO CDA Report to be an effective overall framework? If not, please explain.

ANNEX A - RECENT EVENTS⁶¹ AND THEIR IMPACT ON DEFI

Terra USD (UST)/LUNA Collapse

Event Summary:

Over the course of several days in May 2022, the value of Terraform Labs' algorithmic stablecoin, Terra USD (UST), and native token of the Terra blockchain (LUNA), both collapsed, erasing nearly \$40 billion in reported total market value. The price of UST began to depeg from \$1 on May 7, 2022, falling to approximately \$0.37 on May 12, 2022, while the price of LUNA, which was purported to be used to stabilize UST's price, fell from approximately \$119 in April 2022, to a few cents by May 12, 2022. 62

TerraClassicUSD Price Chart (USTC) Last updated 05:17PM UTC. Currency in USD ☆ Add To Watchlist Max Price Market Cap 24h 90d 180d Ty Jan 2, 2022 - Jun 7, 2023 \$1.25 \$0.750000 \$0.500000 \$0.250000 CoinGecko \$0.00 Jul '22 Oct 22 Jan '23 Apr '22 Apr '23

Source: CoinGecko

This report refers to specific recent events as examples. Use of these examples in the report does not constitute any claim about compliance or non-compliance of any particular crypto-asset, person or entity with existing laws and regulations in relevant jurisdictions. Individual jurisdictions might have different legal interpretations of terms used in this report and different views of compliance or non-compliance of the mentioned crypto-assets, persons or entities with laws and regulations relevant to these jurisdictions. All factual descriptions of crypto-assets, persons and entities are based on information currently known to the authors of this report and are subject to change and revision if new information arrives.

The U.S. Securities and Exchange Commission filed an enforcement action against Terraform Labs PTE Ltd. and its founder, Do Hyeong Kwon, on February 16, 2023. *See* https://www.sec.gov/litigation/complaints/2023/comp-pr2023-32.pdf.

Impact to DeFi Market:

In the weeks after UST lost its \$1 peg, billions of dollars worth of crypto-assets reportedly were taken out of the Terra ecosystem. The TVL of DeFi applications on the Terra blockchain dropped from approximately \$20 billion on May 5, 2022 to less than \$75 million on May 28, 2022. This includes the "Anchor" protocol associated with Terra, which had TVL of more than \$16 billion at its peak.

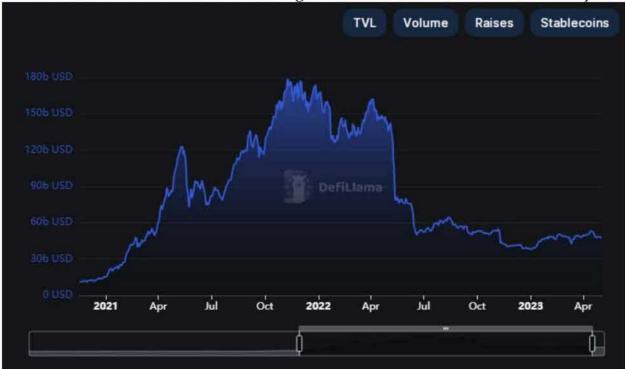


Source: DeFiLlama

The Terra blockchain was halted during this period, preventing users from conducting transactions, while validators and developers reportedly were coordinating activities. In the broader DeFi ecosystem, the death spiral of UST and LUNA appears to have caused a contagion effect, impacting the overall TVL across DeFi platforms on various blockchains. This resulted in a decline from approximately \$142 billion on May 5, 2022, to less than \$80 billion on May 13, 2022, for a TVL loss of nearly 44% in less than two weeks. One research paper suggests that the existence of bridges between the Terra blockchain and other blockchains exacerbated the impacts of the Terra collapse across DeFi, finding that "bridges between programmable blockchain networks create increased risk of spillover effects to other blockchains' programmable environments in the wake of a major shock event like Terra's collapse." The rapid decline in TVL on the Terra blockchain was seen to demonstrate, among other things, the risks of algorithmic stablecoins, the reality that a blockchain can be halted where no user may thereafter transact or exit their positions when desired, and the impact of sentiment and confidence of DeFi market participants on DeFi

63 See https://www.federalreserve.gov/econres/feds/files/2023044pap.pdf.

arrangements and activities. In particular, it would appear that the performance of cryptoassets native to a blockchain or DeFi arrangement is linked to their overall credibility. ⁶⁴



Source: DeFiLlama

FTX Insolvency

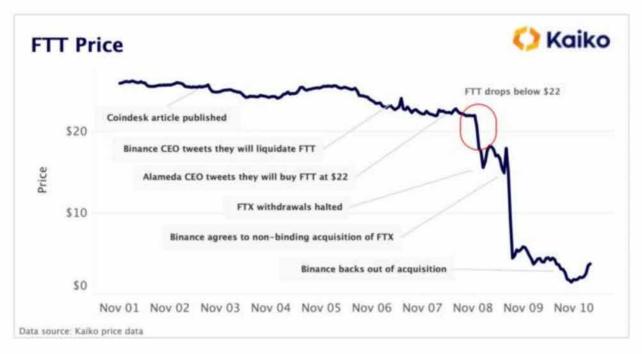
Event Summary:

On November 2, 2022, an article was published, stating that FTX, at the time one of the largest centralized crypto-asset trading platforms by trading volumes, recorded on its balance sheet a significant amount of the *exchange token* of the FTX trading platform (FTT) that purportedly gave certain benefits to holders. Subsequently, the CEO of Binance Holdings Limited (Binance) announced on November 6, 2022, that Binance would liquidate its FTT holdings, which reportedly began a bank-like run as FTX customers apparently lost confidence in the solvency of FTX. FTX reportedly suffered a liquidity crisis, halted customer withdrawals on November 8, 2022, and declared bankruptcy on November 10, 2022. ⁶⁵

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See also BIS, THE CRYPTO ECOSYSTEM: KEY ELEMENTS AND RISKS 7 (July 2023), https://www.bis.org/publ/othp72.pdf (noting that the Terra collapse highlights "the tendency to fragmentation through crypto's vulnerability to new entrants who prioritise market share and capacity and the expense of decentralisation and security.").

The events leading to FTXs insolvency are the subject of on-going civil and criminal actions. See, e.g., https://www.sec.gov/news/press-release/2022-219; https://www.cftc.gov/PressRoom/PressReleases/8638-22; https://www.justice.gov/usao-sdny/pr/united-states-attorney-announces-charges-against-ftx-founder-samuel-bankman-fried.



Source: Kaiko

Impact to DeFi Market:

The collapse of FTX appears to have led to wider contagion in the crypto-asset markets, in which market participants suffered losses. Among those impacted were customers, both retail and institutional, with funds on FTX, counterparties to FTX, investors in FTX and FTT, and others. Although FTX was a centralized crypto-asset platform, this contagion appears to have spread to the DeFi ecosystem. FTX and its principal reportedly were major promoters of the Solana blockchain and its ecosystem. ⁶⁶ One particular DeFi protocol built on Solana reportedly required a hard fork because FTX purportedly owned the private key to the protocol. The contagion from FTX also appears to have affected a number of other platforms through financial interlinkages, such as lending platforms and a crypto-asset related investment fund.⁶⁷ The investment fund reportedly was a participant in a DeFi lending pool run by a delegate firm on a given DeFi protocol that underwrote loans on the protocol. As a result of the investment fund's default, other participants in the lending pools were reported to have suffered losses, including an insurance protocol and a smart contract auditing platform. Further, there was an increase in DeFi transaction volumes, potentially due to the inability to use FTX and other lending platforms and/or a loss of confidence in centralized crypto-asset platforms. Due to the pseudonymity of DeFi

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Life After FTX: How Solana DeFi Is Starting Over—Without SBF's Serum, YAHOO! NEWS, Dec. 7, 2022, https://news.yahoo.com/life-ftx-solana-defi-starting-223848156.html.

A Hedge Fund Hit by FTX Collapse Defaults on \$36 Million of Debt, BLOOMBERG, Dec. 6, 2022, https://www.bloomberg.com/news/articles/2022-12-06/crypto-fund-orthogonal-defaults-on-36-million-debt-as-ftx-contagion-spreads?utm_source=website&utm_medium=share&utm_campaign=copy.

participants, it remains a complex challenge to proactively identify participants and their potential interlinkages and concentration risks.

BUSD Minting Cessation

Event Summary:

On February 13, 2023, the New York State Department of Financial Services (NYDFS) ordered Paxos Trust Company (Paxos) to cease minting Paxos-issued Binance USD ("BUSD").⁶⁸ In response, Paxos informed its customers of its intent to end its relationship with Binance for BUSD.⁶⁹ Prior to the NYDFS cease-minting order, Paxos had been authorized by NYDFS since September 2019 to offer BUSD subject to the conditions that all Paxos-minted BUSD on the Ethereum blockchain be backed by cash, short term treasuries, and other highly liquid investments on a 1:1 basis as well as be subject to other regulatory requirements.⁷⁰ NYDFS stated that all US residents who own Paxos-minted BUSD could still exchange BUSD at a 1:1 rate for US dollars even after the cease-minting order. NYDFS also stated that its prior approval order to Paxos authorized only BUSD on the Ethereum blockchain, noting it had not authorized the Binance-Peg BUSD, a wrapped version of BUSD, purportedly designed to track the value of BUSD at a 1:1 ratio.⁷¹ Approximately one month later on March 13, 2023, the CEO of Binance announced that Binance was converting \$1 billion of BUSD to BTC, ETH and BNB (the "exchange token" of the Binance platform).

Impact to DeFi Market:

Concurrent to the February 13, 2023, announcements by NYDFS and Paxos, the reported total TVL across DeFi rose by approximately 7% over a three day period ending on February 16, 2023, from approximately \$46 billion to more than \$49 billion, the highest level since the first week of November 2022, shortly before the collapse of FTX. Simultaneously, investors reportedly withdrew approximately \$2.3 billion worth of BUSD from Binance within four days of the NYDFS announcement.

The NYDFS supervisory action relating to BUSD may have impacted the willingness of certain DeFi market participants to use BUSD. Participants in Curve's busdv2 liquidity pool exchanged BUSD for the two other pool components, USDT and DAI,⁷² to such an extent

⁶⁸ See https://www.dfs.ny.gov/consumers/alerts/Paxos and Binance.

See https://paxos.com/2023/02/13/paxos-will-halt-minting-new-busd-tokens/.

⁷⁰ See https://www.dfs.ny.gov/reports_and_publications/press_releases/prigogo51.

See https://www.binance.com/en/blog/ecosystem/understanding-busd-and-binancepeg-busd-5526464425033159282.

DAI purports to be a crypto-asset-collateralized stablecoin pegged to USD that is maintained and regulated by MakerDAO. *See* https://makerdao.com/whitepaper/DaiDec17WP.pdf.

that on February 14, 2023, 81% of the assets in busdv2 were BUSD.⁷³ Market participants reportedly experienced intense selling pressure and price slippage.⁷⁴ Both centralized exchanges⁷⁵ and DeFi protocols⁷⁶ reportedly limited the use of BUSD. The impact of these actions by NYDFS and Paxos illustrate, among other things, certain risks of stablecoins. In this particular instance, for example, Binance reportedly was minting BUSD on a non-Ethereum blockchain without consistently maintaining a 1:1 reserve rate. These events also illustrate how investors may tend to migrate assets from a centralized platform to DeFi when they lose confidence in the centralized platform, how investors may tend to avoid crypto-assets against which regulatory or supervisory actions have been commenced, the high impact certain events can have on liquidity and transaction fees on DeFi platforms, and the ability of purported "decentralized" DeFi platforms to freeze or restrict certain products or assets when certain risks arise.

USDC Depeg

Event Summary:

In 2023, the failure of a US regional bank that offered deposit services to a stablecoin issuer contributed to a temporary de-pegging of its stablecoin because of uncertainty about the issuer's access to its deposits.⁷⁷

Omkar Godbole, Investors Rush to Tether as Paxos' BUSD Faces Regulatory Heat, Curve Liquidity Pools Show, COINDESK (Feb. 14, 2023, 7:29 am), https://www.coindesk.com/markets/2023/02/14/investors-rush-to-tether-as-paxos-busd-faces-regulatory-heat-curve-liquidity-pools-show/?ref=biztoc.com.

- See, e.g., Tiny Cat (@insigocelot), TWITTER (Feb. 13, 2023, 7:57 AM),

 https://twitter.com/insigocelot/status/1625116840782442498 ("And just like that defi exit liquidity for BUSD was gone. Only significant remaining pool of BUSD liquidity remaining is on Pancake Swap. All stable pools on Ethereum thoroughly dumped. A \$1,000,000 sale of BUSD on Uni now subject to 35%+ slippage."); @Mr. Kazoo Bitcoin, TWITTER (Feb. 14, 2023, 4:52 AM),

 https://twitter.com/MrKazooBitcoin/status/1625432771660500992 ("You need to pay +\$30 to buy 1

 \$BTC on #BUSD market, the slippage is real (2)").
- Oliver Knight, Coinbase Officially Suspends Binance USD Stablecoin Trading, COINDESK (Updated May 9, 2023, 12:10 am), <a href="https://www.coindesk.com/business/2023/03/13/coinbase-officially-suspends-binance-usd-stablecoin-trading/#:~:text=Cryptocurrency%20exchange%20Coinbase%20(COIN)%20has,Brian%20Armstrong%20citing%20liquidity%20concerns.
- Samuel Haig, *Aave and Maker Pull Back From Paxos Stablecoins*, THE DEFIANT, Feb. 21, 2023, https://thedefiant.io/aave-and-maker-pull-back-from-paxos-stablecoins.
- See FSB, GLOBAL REGULATORY FRAMEWORK FOR CRYPTO-ASSET ACTIVITIES 4 (July 2023) available at, https://www.fsb.org/2023/07/fsb-global-regulatory-framework-for-crypto-asset-activities/; CIRCLE, USDC RESERVE REPORT (Jan. 2023), available at https://www.circle.com/hubfs/USDCAttestationReports/2023%20USDC_Circle%20Examination%2 oReport%20January%202023.pdf.



Source: CoinGecko

Impact to DeFi Market:

Given the common use of stablecoins as one leg of a trading pair in many DeFi protocols, USDC's depeg had systemic impacts across DeFi. DeFi pools such as Curve's 3pool (where each crypto-asset typically represents 33% of the pool's value) experienced an initial flight from USDC.⁷⁸ Tether (USDT) gained notable inflows following the 3pool USDC flight.⁷⁹

In the wake of these events, a number of DeFi projects made or passed governance or DAO proposals to address USDC risk. For example, MakerDAO launched an emergency proposal

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See Danny Nelson, DeFi Protocol Curve's \$500M Stablecoin Pool Hammered as traders Flee USDC, COINDESK (Updated May 9, 2023, 10:10am), https://www.coindesk.com/business/2023/03/10/defi-protocol-curves-500m-stablecoin-pool-hammered-as-traders-flee-usdc/.

Krisztian Sandor, USDC Outflows Surpass \$10B as Tether's Stablecoin Dominance Reaches 22-Month High, COINDESK (Updated Mar. 30, 2023, 3:55 pm), https://www.coindesk.com/markets/2023/03/29/usdc-outflows-surpass-10b-as-tethers-stablecoindominance-reaches-22-month-high/.

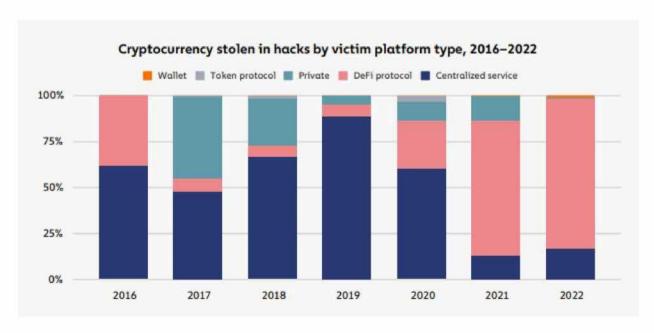
to change its risk parameters to reduce exposure to USDC. 80 This proposal appears to have been proposed and passed in roughly eight hours. The USDC depeg illustrates, among other things, interconnectedness between fiat-based stablecoins and the banking sector and the existence of contagion channels between TradFi and DeFi. The USDC depeg also illustrates the risks to participants using stablecoins as collateral in DeFi arrangements. The events also suggest that DeFi participants use elevated rights and exceptions to stated governance processes in DeFi to respond to events that cause market stress or increase risks to a DeFi arrangement or activity.

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See https://cointelegraph.com/news/maker-dao-files-emergency-proposal-addressing-3-1b-usdc-exposure; https://forum.makerdao.com/t/emergency-proposal-risk-and-governance-parameter-changes-11-march-2023/20125.

ANNEX B – DEFI EXPLOITS, ATTACKS AND ILLICIT USES

The DeFi markets, like other financial markets, are a target for hackers and attackers, including those that seek to exploit vulnerabilities to misappropriate funds and data. This section describes various attacks and specifically highlights flash loan- and Maximal Extractable Value (MEV)-enabled attacks. According to one blockchain analytics firm, attacks on DeFi protocols accounted for 82.1% of all crypto-assets stolen by hackers in 2022— a total of \$3.1 billion — up from 73.3% in 2021. Of that \$3.1 billion, 64% was attributable to attacks on cross-chain bridges. Another blockchain analytics firm reported that nine of the ten largest attacks occurred against DeFi projects, and that hacks on such projects resulted in an average of more than \$20 million stolen per incident. A



Source: Chainalysis – The 2023 Crypto Crime Report

A blockchain analytics firm reports that among the most prolific hacker groups are those associated with North Korea. Reportedly, the North Korea-linked Lazarus Group stole an estimated \$1.7 billion worth of crypto-assets in 2022, and North Korea-linked hackers have stolen \$1.1 billion in crypto-assets through hacks of DeFi protocols. The report

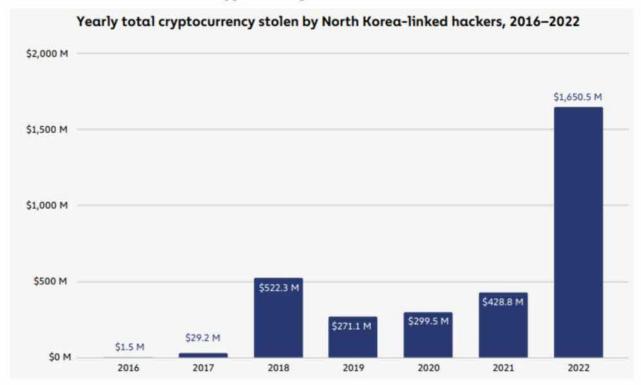
This section does not cover market manipulation and outright scams. See, e.g., IOSCO, RETAIL MARKET CONDUCT TASK FORCE FINAL REPORT (Mar. 2023), available at https://www.iosco.org/library/pubdocs/pdf/IOSCOPD730.pdf. Each of these, however, is a significant source of risk.

⁸² CHAINALYSIS, supra note 21.

⁸³ TRM, *supra* note 22, at 32.

⁸⁴ *Id.* at 52.

concludes that the funds are laundered through DeFi protocols in order to convert stolen crypto-assets into more liquid or less volatile assets before eventually being converted to fiat currencies at centralized crypto-asset platforms.⁸⁵



Source: Chainalysis – The 2023 Crypto Crime Report

Common Types of Exploits/Attacks

Common types of exploits and attacks observed in DeFi are discussed below. Of note, most attacks have exploited one or more features of DLT-based systems, namely:

- Public, open-source code, which makes it possible for threat actors to study a protocol's smart contracts and test how it may be exploited;
- DeFi governance structures;
- Private keys, which in some cases can control significant functionality of a smart contract through elevated or administrative functions that allow any holder of those keys to commandeer crypto-assets. Private keys are susceptible to compromise through common cyberattacks, such as phishing, key logging or social engineering;
- Permissionless access, which makes it possible for anyone with the necessary technical skills to interact with any protocols of their choice; and
- The fact that code is often copied and used in multiple protocols, which can exacerbate an attack as it can be carried out across multiple protocols.

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⁸⁵ CHAINALYSIS, supra note 21.

Exploits and attacks in DeFi target vulnerabilities inherent to DeFi arrangements, such as smart contract code or dependencies on critical infrastructure (e.g., oracles, bridges). Threat actors investigate publicly accessible code, and also use tools and techniques such as flash loans and MEV to effectuate an attack. The following discusses vulnerabilityrelated targets for exploits and tools used to carry out attacks.

Smart Contract-Related

Smart contracts are code that is deployed on a blockchain or DLT-based system and form the major building blocks of DeFi protocols. Just as with other software, smart contracts are susceptible to code errors and vulnerabilities, and have proven a major attack vector for DeFi exploits. What are often seen as features of smart contracts (e.g., the fact that they can be self-executing, immutable, composable, and can be publicly inspected) also can translate to vulnerabilities in terms of an attack vector.

One major type of exploit relates to access control, which involves using a smart contract's private key(s) to alter the smart contract in some way. With access to a private key that can sign elevated administrative functions in a smart contract, an attacker could, for example, create, destroy, or transfer tokens, pause functionality, manipulate data, and change or disrupt the way the smart contract operates.86 One report notes that of the \$1.4 billion stolen through code exploits in 2022, 90% occurred through "authentication issues, improper validation, and signature verification issues."87

Another exploit relates to a smart contract's inability to process data that is outside the range it is able to process (referred to as "integer overflow/underflow"), which may lead to unintended or unexpected outcomes. Smart contracts also are susceptible to "reentrancy attacks," which occur when an attacker can trigger a function on a particular smart contract repeatedly before the smart contract can finish executing the first triggering event of the function, creating a type of loop that allows for multiple executions of a command. This type of attack can result in an attacker withdrawing funds from a smart contract before the smart contract can update a ledger that tracks the allocation of those funds.

Governance-Related

Certain DeFi projects claim or aim to be governed by a community through, for example, the use of governance or voting tokens (see ANNEX D). Governance-related exploits aim to abuse the decision-making process (e.g., by amassing a majority of governance

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⁸⁶ Private keys enable the signing of transactions in blockchain and DLT-based systems. These transactions can enable the transfer of crypto-assets, execution of smart contract functions or onchain operations such as block proposals or approvals. Private key operational security is critical to prevent private keys from being stolen by malicious actors. While industry-standards for private key security best-practices are lacking, various methods for storing private keys exist, including, but not limited to, written on paper, stored in a local note application, stored on a hardware wallet or distributed by multi party computation (MPC). These methods commonly trade off security for ease of use and access. Bad actors use various schemes to steal private keys, including phishing and social engineering, to acquire access to machines or systems to extract the private keys of investors or DeFi protocol developers.

⁸⁷ TRM, supra note 22, at 32.

tokens/voting power) to implement changes or actions to the attacker's own benefit and against the general community interest (e.g., by requesting and executing a transfer of funds to the attacker's wallet). An attack on governance mechanisms can be facilitated through other types of attacks, e.g., by exploiting smart contract vulnerabilities, including through the use of a flash-loan attack.

Infrastructure-Related

Infrastructure components in DeFi are fundamental auxiliaries that can impact transaction processing, composability and other capabilities. Critical infrastructure components include oracles and bridges, which provide mechanisms for a multiplicity of data sources off-chain and cross-chain (from other DLT networks) to be utilized and relied upon to provide DeFi products and services in an originating DLT network (which is inherently siloed). Without the bi-directional movement of data between off-chain and cross-chain components, smart contracts that determine the parameters of a DeFi activity are limited to the data held on the originating DLT network. Attacks on these infrastructure components can occur from vulnerabilities that include low quality data collection and aggregation methodologies, reliance on a single point of failure, and the lack of an ability to dynamically reflect changes in reference data.

Tool: Flash Loans

Flash loans are used to borrow and repay crypto-assets in a single block recorded on a blockchain. They are a feature of DeFi that allow users to borrow assets with no collateral requirements, no credit checks, and no borrowing limits (except as based on the amount made available for borrowing by liquidity providers). This is possible because of atomicity, a feature of blockchains in which actions are either executed collectively in sequence in one block or fail collectively and absolutely. A flash loan is only valid within the transaction (within a block), which reverts to the pre-transaction state with no loss to the borrower (or lender) if they are unable to repay the loan within the same block.⁸⁸

Flash loan attacks occur when an attacker borrows funds, uses them to effectuate a manipulative transaction, and repays the borrowed funds - all in one block. These attacks are popular because they require less upfront capital, provide large loan sizes, and are permissionless to execute. In addition, it is often difficult to identify malicious flash loan attackers due to the pseudonymity of blockchain addresses.

Flash loan exploits have been used to attack DeFi protocols in a number of ways. One involves an attack to exploit a smart contract vulnerability, permitting an attacker to drain funds from a smart contract. Another involves a "pump attack" that capitalizes on market inefficiencies and fragmentation. In DeFi markets, there is no industry agreed upon

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Arbitrage is a popular use case of flash loans as it allows traders to benefit from price differences across various exchanges. For instance, if token X is \$10 on DEX A and \$12 on DEX B, a user can use a flash loan to (1) borrow \$10,000 worth of crypto-assets; (2) buy 1,000 token X for \$10,000 at DEX A; (3) sell 1,000 token X for \$12,000 at DEX B; and (4) pay back the \$10,000 loan. However, this series of transactions must all occur in one block. In this scenario, the user will benefit by \$2,000 minus fees. If, however, the user could not execute any one of the steps, or pay the fees, all of the steps in the transaction would fail.

centralized pricing source, and prices reported by centralized crypto-asset platforms may or may not be accurate, may be stale, or may not include pricing data from over-thecounter (OTC) markets. As a result, the same crypto-asset can be traded at different prices across different venues. In a pump attack, the attacker manipulates the relative price of two assets, for example, in a DEX liquidity pool and arbitrages away this price difference. Another flash loan related attack involves the manipulation of oracles. Oracles are infrastructure components that provide off-chain data, such as data from websites or APIs to on-chain smart contracts. Oracle manipulation in a flash loan context works similarly to a pump attack. In this case, the attacker may use funds from a flash loan to manipulate the price of a crypto-asset trading on a venue that is a reference for an oracle network (e.g., by adjusting the relative price of the two assets in the DEX-based liquidity pool or by conducting manipulative trades on a centralized crypto-asset trading platform) and the manipulated price is broadcasted across the oracle network to a DeFi protocol. The smart contracts using the manipulated price information cannot detect an anomaly and therefore continue to operate on the manipulated price information. The most high-profile oracle manipulations have often used flash loans; however, oracles may be manipulated through other means (e.g., flaws in the oracle's code). One blockchain analytics firm reported that more than 50% of the total amount stolen from attacks on DeFi protocols resulted from price manipulation techniques, such as those using oracle manipulation and flash loans.⁸⁹

Tool: MEV Strategies

A developing area in DeFi involves what is known as MEV. MEV strategies encompass any strategy to capture or extract value from the ordering and inclusion of blockchain transactions, and can refer to value taken through arbitrage,90 liquidation91 and the payment of gas fees.⁹² MEV strategies also refer to the exploitation of mempool data⁹³ that

90 One type of MEV opportunity occurs through arbitrage. In the case that two crypto-asset platforms are trading a particular token at different prices, arbitragers can purchase the token on the platform with the lower price and sell it on the platform with the higher price. Some arbitragers use complex algorithms that identify profitable opportunities as quickly as possible. The concept of arbitrage is a profit-making strategy in traditional financial markets and is considered a part of efficient market dynamics.

91 Another type of MEV opportunity occurs through liquidations of loans in DeFi lending/borrowing protocols that fall below their minimum collateral requirement. Typically, such protocols are overcollateralized, i.e., borrowers must post more collateral than they are borrowing. If the loan-to-value ratio exceeds the set limit, a market participant may close out the loan, taking the collateral. Participants can run specialized algorithms to monitor a network for transactions presenting liquidation opportunities and be the first to liquidate a loan. Liquidators can extract MEV from borrowers by liquidating a borrower's loan before the borrower can repay, then profit by selling the borrower's collateral.

- 92 Another type of MEV opportunity is in the receipt of gas fees, or fees paid to miners/validators to process transactions.
- 93 The mempool consists of transactions that are awaiting processing by the blockchain's miners/validators.

⁸⁹ TRM, supra note 22, at 32.

allows persons analyzing the mempool to maximize the profit they can make by the choice and sequencing of transactions to be proposed in a block to be appended to a blockchain. The most common exploitative strategies involving MEV occur when participants with visibility into pending transactions in the mempool can use that information to transact in a way that benefits themselves at the expense of the participants to the pending transaction. Variations of this strategy have been referred to as front running,"94 "backrunning"95 and "sandwich attacks."96 Such conduct in traditional markets would be classified as market manipulation.

While there is the potential for MEV strategies on various blockchains, the following descriptions are focused on MEV strategies relating to Ethereum (including through the use of applicable "MEV Boosting Software"). The key players currently are:

- Developers: establish a protocol, creating potential for MEV opportunities, or create software tools, such as MEV Boosting Software, to extract MEV.
- Validators: determine which transactions pending in a mempool to include in blocks and in what order. Typically, a validator will decide to order the block with the highest gas fee paid at the front and order in this way until the block is complete.
- **Searchers:** seek to identify and capture MEV opportunities, often through the use of complex algorithms called bots. Typically, searchers will pay higher gas prices to place their transactions at specific positions within a block. Some validators could have agreements with searchers to effectuate the searcher's MEV strategies in exchange for a portion of the MEV captured.

Front-running occurs when a participant observes a pending transaction that is likely to impact the market in a particular way. The participant will propose a transaction based on that information and attempt to have it execute prior to the pending transaction. A miner/validator could execute this attack through re-ordering of transactions on a proposed block; a searcher might attempt to pay a higher gas fee or collude with a miner/validator to move the transaction ahead of the pending transaction. One study calculates losses due to frontrunning attacks between May 2020 and April 2021 to have amounted to more than \$100 million USD. See Agostino Capponi et al., Inefficiencies in Public Distributed Ledgers (Dec. 31, 2021), available at https://papers.ssrn.com/sol3/papers.cfm?abstract_id=3997796.

95 Back-running occurs when a participant orders their transaction to be executed immediately after a pending transaction. This type of attack might be profitable, for example, if the pending transaction is to create a new pair for trading on an automated market maker (AMM). An attacker can employ back-running bots to monitor the mempool for new token pair listings or liquidity pools created on decentralized exchanges. When a bot finds a new token pair listing, it can place a transaction order immediately after the initial liquidity and buy as many tokens as possible, leaving only a small amount for other traders to buy later. The bot can then wait for the price to go up after other traders have purchased the tokens and sell at a higher price for a profit.

A sandwich attack occurs when a participant places two transactions, one before and another right after a pending transaction. Searchers typically use sandwich attacks to extract MEV from unsuspecting traders on decentralized exchanges by manipulating the price of an asset. For example, a trader can identify a token a victim is about to buy and make a trade to push the price up, then sell the token immediately after the victim's buy order has further increased the price.

- Block Builders: construct blocks from proposed transactions. This is done by running algorithms and simulations to order the bundles of transactions in a block template that maximizes profit. Builders then bid for and buy the validators' blockspace, facilitated by one or more relays, so their execution payloads are proposed to the blockchain.
- **Relays:** facilitate communication interfaces that aggregate blocks from builders to provide the most profitable block to proposers for validation.
- Proposers: a validator that has been randomly selected amongst all the validators
 to build a block for a given slot. Proposers may pay block builders if their proposed
 block is appended to the blockchain.
- Impacted Users: engage in transactions on a blockchain whose execution is affected by MEV strategies.
- **MEV Boosting Software**: seeks to maximize MEV opportunities for miners/validators.

MEV strategies are evolving, and more skilled participants, or those who collude with others, may be gaining more income from MEV strategies. This dynamic may lead to increasing concentration effects as those participants can gain more control over the network. The switch from Ethereum PoW to PoS⁹⁷ resulted in changes to the MEV space including, but not limited to, a terminology change from "Miner Extractable Value" to "Maximal Extractable Value," an increase in MEV rewards in proportion to block rewards, and a change to the entities in the MEV supply chain (such as validators taking the place of miners). This switch may lead to centralizing effects in Ethereum PoS due to reduced constraints on hardware requirements and natural pooling of ETH at entities such as centralized trading platforms who dedicate resources to sophisticated MEV strategies and create economies of scale.

As Ethereum blocks are built from transactions, parties who seek to obtain MEV will compete for transactions. These participants can access transactions to locate MEV opportunities in two primary ways – through searching transactions on the blockchain/mempool or through access to exclusive transaction order flow. As users want their transactions to be included in a block, there is the potential for users to submit their transactions through a limited number of operationally sophisticated entities, and

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Proof of Work (PoW) commonly refers to a blockchain consensus mechanism where miners compete to solve cryptographic puzzles in order to earn the ability to add new blocks to the blockchain and receive a reward of newly-minted crypto-assets.

See, e.g., https://ethereum.org/en/developers/docs/consensus-mechanisms/pow/. Proof of Stake (PoS) commonly refers to a blockchain consensus mechanism where validators stake crypto-assets to earn the ability to add new blocks to the blockchain and receive a reward of newly-minted crypto-assets. A validator's stake can be reduced (or 'slashed') through behavior harmful to a blockchain. See https://ethereum.org/en/developers/docs/consensus-mechanisms/pos.

validators with a high inclusion rate of transactions are more likely to obtain transaction order flow.

Dominant validators with sophisticated resources to develop MEV strategies are potentially able to propose the most blocks on the network and extract the most MEV, providing outsized rewards compared to validators with less sophisticated or no MEV strategies. This could enable validators providing staking as a service (SaaS) to offer higher returns to customers, potentially attracting more customers to deploy more validator nodes and increase dominance on and centralization of the network. Solo-staking validators could also earn more rewards from the addition of sophisticated MEV strategies to their validation operations. In both hypothetical examples, sophisticated MEV strategies could result in more rewards earned that can then be staked to control more validators on the network thus potentially increasing centralization risk.

These dynamics could lead to market concentration and, as is the case with other concentrated markets, could give a limited number of entities the potential to extract higher profits from users and to behave in other non-competitive manners such as collusion or censorship of certain transactions.

To address this potential centralization issue, core developers in the Ethereum 2.0 network reportedly have proposed a "proposer-builder separation" (PBS), such that a separate group of participants called "block builders" will build a block of transactions and a separate group of participants will accept the block without knowing the contents of any block until after it is selected. With PBS, block builders presumably would accept transactions from users and searchers, entities who submit groups ("bundles") of transactions in a specific order to builders and compete to build the most profitable blocks possible from those transactions. Block builders would then send blocks through intermediaries known as relayers to block proposers who would simply pick the highest-bid blocks proposed by block builders and validate the blocks. However, this is merely a proposal and any implementation of PBS into the Ethereum core protocol will likely take time.

As MEV can be extracted based on ordering of transactions in a block, current attempts to minimize MEV opportunities center around increasing opacity in the transaction order, either through anonymizing transactions, through batch auction, private mempools and other market structure changes. There have been reported efforts to "democratize" MEV operations though open-source software to lower the entry to MEV operations and apply the PBS concept outside of the core Ethereum protocol.

ANNEX C – DATA GAPS AND CHALLENGES

Accurate and complete data is critical to the understanding of any financial ecosystem. Specifically, regulators rely on data to monitor a financial ecosystem and its participants, to flag abnormalities and trends, and to investigate non-compliance and illegal activity.

The data needs of regulators and supervisors span many dimensions of the DeFi ecosystem. These dimensions include:

- Transaction-level data: Transaction-level data between and among all participants, including smart contracts.
- Protocol-level data: Smart contract addresses and underlying code, as well as URLs and programming of user interfaces.
- Participant data: Data concerning key participants, including software developers, large investors (e.g., whales, VCs, institutional investors, etc.), and governance/voting token holders.⁹⁸
- Oracles and other DeFi Infrastructure: The function, inputs and vulnerabilities of infrastructure, including layer 1 blockchains, layer 2 networks, oracles, bridges, etc.

Available data

Case 1:24-cv-01858-ACR

As highlighted in the 2022 Report and in this report, the provision of DeFi products and services typically involves on-chain and off-chain activities. Therefore, data relevant to DeFi are located on-chain and off-chain, as well. To the extent data is on-chain, it requires tools and expertise to interpret and may not be in human-readable format. To the extent data is off-chain, it could be inaccessible. Even if off-chain data is made available through, for example, a website or API, the data likely is not audited or otherwise verified, and may be unreliable.

Two key metrics derived from on-chain data are commonly associated with DeFi:

- Aggregate flow statistics, which allow analysts to gauge the interest market participants may have in a protocol. Flow data can be aggregated either within one blockchain to determine the preeminence of a protocol within a given blockchain, or across all blockchains in order to determine the protocol's importance in the overall DeFi ecosystem. Flow statistics can be derived by looking at changes in values that are originally derived from a blockchain's publicly available data. Alternatively, some protocols contribute statistics and data to various aggregators and/or dashboards.
- Total Value Locked (TVL), reportedly representing the accumulated deposits by protocol users.

Specific data on institutional investor participation could improve the measurement and understanding of the interconnection risks.

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However, these metrics, though commonly used, lack standardisation and should be scrutinized in terms of the information they convey. In the case of TVL for example, certain types of protocols (e.g., liquidity pools, bridges, etc.) use *locked value* to mint new derivative, synthetic or *wrapped* tokens, which can themselves be deposited in other DeFi applications. This feature of DeFi has sometimes been referred to as re-hypothecation and may result in a crypto-asset and its derivative, synthetic, or wrapped version being counted multiple times for TVL purposes (often called *double-counting*.)⁹⁹ It is also important to note that TVL values fluctuate with the underlying market values of the crypto-assets on which they are based. Aggregate flow data tends to be based on TVL data (e.g., changes in TVL for a given protocol), so this data has similar shortcomings as TVL data. In addition, protocol-contributed data, such as TVL, can be inaccurate for other reasons, and it is not always validated against blockchain activity.

A recent BIS report noted three types of metrics that authorities can monitor to assess risks in DeFi: (1) indicators that gauge the overall size and evolution of the sector; (2) indicators designed to assess financial vulnerabilities; and (3) indicators that gauge the potential for spillovers by tracking and assessing interconnections between DeFi, Centralized Finance (CeFi), traditional finance and the real economy.¹⁰⁰

Some metrics that may be useful for analyzing any particular DeFi protocol are:

- TVL
- · aggregate flow
- market value of a protocol (measured by the number of outstanding tokens multiplied by the market value of the token -- sometimes referred to as "market capitalization")
- number of users
- governance structure and operation
- linkages with other entities (i.e., blockchains, bridges, oracles, etc.)
- multi-sig thresholds for changing smart contracts
- numbers of pairs traded, number of trades, liquidity flows in/out, market share by volume (for DEXs)
- lend/borrow amounts and rates, repayments, liquidations, deposits and withdrawals, liquidation thresholds (for lending/borrowing protocols)
- offered yields (for aggregators or liquid staking providers)
- · hacks/operational issues

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⁹⁹ Certain TVL data providers claim to be able to identify funds that are used multiple times and offer "clean" TVL metrics.

BIS, THE CRYPTO ECOSYSTEM: KEY ELEMENTS AND RISKS 17-18 (July 2023), https://www.bis.org/publ/othp72.pdf.

- links to addresses known to have received funds from or used funds for illicit activities
- total value of crypto-assets received from illicit addresses
- links to fraud reports
- VC and other early investors

Some metrics that may be useful for analyzing any particular blockchain are:

- **TVL**
- aggregate flow
- governance structure and operation
- number of validators or miner nodes
- number of unique addresses on a blockchain
- number of active addresses on a blockchain
- number of transactions
- number and types of smart contracts/protocols
- hacks/operational issues
- links to fraud reports
- developer activity/growth
- gas prices/transaction fees
- MEV opportunities and dynamics
- VC and other early investors

Some metrics that may be useful for analyzing the DeFi market more broadly are:

- Retail investor participation
- TVL per protocol type (i.e., DEX, lending/borrowing, aggregator)
- aggregate flow per protocol type (i.e., DEX, lending/borrowing, aggregator)
- interest in crypto-assets over time based on web searches (media coverage)
- Demographic/geographic ownership of crypto-assets
- Market concentration (e.g., using Herfindahl-Hirschman Index¹⁰¹)
- Interest rates offered in DeFi
- Market prices and volatility
- Open crypto-asset derivative positions, long and short

¹⁰¹ Herfindahl-Hirschman Index (HHI) is a measure of market concentration. It can be used to determine the relative concentration of market share in a given market. See U.S. DEPT OF JUST., HERFINDAHL-HIRSCHMAN INDEX, https://www.justice.gov/atr/herfindahl-hirschman-index.

- Stablecoin metrics
- Interconnectedness, through metrics on blockchains, protocols, oracles, bridges, etc.
- VC and other early investors

When using any of the metrics above, it is important to keep in mind that the metric may be based on industry reported, unverified data; nevertheless, the metric may be useful in a relative sense or for monitoring purposes, absent the availability of verifiable data sources. Metrics such as these, for example, can be used to rank activities in terms of their usership and growth and can help regulators begin to construct a picture of what is happening in DeFi. This information could help regulators decide how to allocate resources for potential regulatory action.

Data Gaps

Despite that there are DeFi data providers and analytical tools, some of which are open source, there are significant data elements that are not publicly available. The inaccessibility of relevant data increases the challenges to market surveillance and reduces the ability to monitor activity. For example, ownership concentrations of governance tokens may only be partially visible on-chain, as significant amounts may be held by a centralized crypto-asset platform in an omnibus wallet address. communication and coordination for project governance often takes place on social media, and typically only individuals granted access to the relevant chat groups can observe relevant discussions. The financial resources of a DAO or DeFi protocol can be opaque, for example, part of the resources could appear on-chain, and part could be held off-chain. Fund transfers relating to DeFi activity can take place on private networks. These transfers can occur between DeFi and other crypto-asset market participants and can involve both fiat currencies as well as crypto-assets for the transfer of value. Increasing the ability of regulators to decipher on-chain data and to have access to off-chain data can provide for a more holistic view of a DeFi arrangement or activity, including its interconnectedness with other market participants and activities.

- Lack of Financial Reporting: DeFi protocols typically do not publish formal or informal financial data, nor do they typically engage auditors to opine on their operations or internal controls.
- Lack of Broad Market Data: DeFi does not have a self-regulatory organization that collects, compiles and disseminates data across protocol types.
- Failure to Register/License: Because DeFi protocols generally have not registered or licensed as exchanges, brokers, dealers, hedge funds, swap dealers, asset managers, or other regulated entities, the protocols may be in noncompliance with requirements that would facilitate regulators' ongoing oversight activities that include understanding and scoping the entirety of a protocol's operations. Jurisdictions maintain data sets for entities subject to regulation for particular activities.

Data Providers

Data providers for crypto-asset related data are highly specialized, fragmented in what they offer, and can be expensive. Providers tend to cover different data sets and analyze different aspects of the data. For example, some cover various blockchains and/or crypto-assets. Some focus on transaction analysis on particular blockchains and provide, for example, risk-scoring of entities for AML purposes. Others focus on smart contracts and potential vulnerability analysis. Still others offer more traditional financial data and research, such as pricing, research, and market trends. In addition to vendors, DeFi data can also be accessed through a variety of online interfaces. Use of these tools can require specialized training and significant resources and cost. Accordingly, it may be difficult and costly to arrange comprehensive coverage across the entire DeFi market. It is also important to assess where a particular vendor sources its data to evaluate whether there are risks that the underlying data is incomplete or inaccurate. The following table identifies some, but not all, data needs and potential gaps/challenges for illustrative purposes.

Table: Data Needs and Gaps

Layer	Potential Use	Data Needs	Data	Potential
	Cases for		Availability	Gaps/Challenges
	Regulators			
Settlement	Assessing	Blockchain	On-chain data;	On-chain data is
Layer	compliance	transactional	node peers,	voluminous, can be
(including	with applicable	data; mempool	client	difficult to interpret,
blockchains	laws and	data	distribution, IP	and requires
and Layer 2	regulations;		addresses;	specialized skills and
solutions)	analyzing		mempool data;	significant
	consensus		MEV data;	infrastructure costs;
	mechanisms		online	mempool data may
	and activities;		blockchain	not be available, is
	analyzing		explorers and	unique to individual
	transactions		other data	nodes, and complex to
	and		analytics	analyze; transactional
	transactional		providers	information is
	dynamics;			pseudonymous and
	analyzing MEV			can be anonymity
	activities			enhanced
Asset layer	Assessing	See above;	See above;	See above; there is no
(including	compliance	smart contract	GitHub/GitLab	assurance that the
tokens)	with applicable	code	(central	information available
	laws and	concerning	repositories for	on GitHub/GitLab or
	regulations;	tokens	code underlying	through blockchain
	Analyzing token		many smart	explorers reflects what
	creation,		contracts);	occurs on-chain;
	issuance,		market data	source code is not
	distribution,		from DeFi	always publicly

	and		protocols and	available; Market data
	functionality;		off-chain	is not always audited,
	monitoring fund flows,		centralized	data standards and
	including		crypto asset platforms; social	aggregation methods are fragmented and
	proceeds of		media and other	lacking
	illicit activity		off-chain	lacking
	inicit activity		sources	
Smart contract layer (including DeFi protocols, DAOs and bridges)	Assessing compliance with applicable laws and regulations; assessing functionality, governance, and vulnerabilities; monitoring systemic importance and interlinkages	See above; smart contract code and other data concerning DeFi protocols	See above; smart contract analysis and assessment tools; governance voting websites; Market data for DeFi protocols, DAOs and bridges assets under management	See above; reading and analysing smart contracts requires a specialized skillset
Application	Aggogging	See above;	See above;	See above; the
Application Layer	Assessing compliance	website, web	disclosures;	underlying on-chain
(including	with applicable	extension, or	VPN blockers;	smart contracts and
user	laws and	mobile/desktop	user traffic;	functionality could be
interfaces,	regulations;	application of a	integrations	obfuscated
websites,	monitoring	given user	with other	
aggregators)	sector	interface or	platforms	
	developments	aggregator;		
	and growth	information on		
		parties		
		maintaining the user		
		interface or		
		aggregator;		
		code for		
		optimisation,		
		trading and		
		other		
		algorithms		

ANNEX D – DEFI GOVERNANCE

Broadly, governance refers to the actions and processes managing the control and direction of an entity. Governance encompasses a number of elements, including the allocation of authority, both legal and operational; the ways that authority can be, and is, exercised; and the broader set of practices, policies and procedures by which an entity is organized and administered. An entity's governance structure dictates the mechanism through which decisions are made, directions are given, and ultimately, how control and influence are exercised within the entity.

Blockchain "Layer 1" Governance

Governance of the settlement layer (layer 1) of a typical blockchain typically occurs both on-chain and off-chain. For major blockchains today, core developers usually put forth a proposal for debate, largely through an informal process using off-chain social media-based communications among core stakeholders, including protocol developers, node operators and validators. Core developers may consider input from other stakeholders and the proposal may evolve until the core developers propose a final implementation. At that point, adoption of a change to the core protocol of a blockchain will depend upon a majority of validators choosing which version of the core protocol they will run.¹⁰²

This process suggests several observations. First, it is the developers who must code any agreed proposal for it to be implemented. Thus, protocol developers may have outsized influence relative to other stakeholders in the final form any such proposal takes. It is also the case that users and other stakeholders may have limited access to all the information regarding a proposal including its underlying code. Also, whether and to what extent the final outcome is adopted is decided ultimately by the network validators, who determine which version of a layer 1 core protocol to participate in. To the extent that there is disagreement about adoption of a core protocol change, a hard fork may result in a split of participants continuing to transact on two separate networks. Control of validator nodes can be significantly concentrated in major blockchains. This may result in de facto control of a layer 1 blockchain by a small group, i.e., core developers and validators.

Decentralization is a term that can describe various aspects of a DeFi arrangement or activity, such as ownership of an enterprise providing a product or service, voting power over the enterprise or any aspect of it, control of user or investor assets, network design of an underlying blockchain (settlement layer), or off-chain infrastructure such as web servers that provide application components, among others. There is no agreed definition (even among industry participants) of what causes an arrangement or activity to be considered

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See ETHEREUM, INTRODUCTION TO ETHEREUM GOVERNANCE, https://ethereum.org/en/governance/ (providing a summary of how governance for the Ethereum network works, including key stakeholders, process steps, and features).

decentralized, such that there is no concentration of ownership, voting power, or control as to the product or service, enterprise or user assets. While those who offer DeFi products or services may claim to be decentralized, most DeFi arrangements may in reality have a significant level of centralization. For example, founders or other participants may retain control or significant influence over aspects of an arrangement or activity. Even as to protocols and smart contracts that are subject to change through votes of governance tokens, ownership and voting control of governance tokens may be concentrated in the hands of a few and therefore they may continue to be controlled by centralized parties. In some cases, those aspects that are up for vote are not ones that relate to the operation of a project at the enterprise level. Most DeFi arrangements and activities today rely on centralization in one or more areas and are decentralized in name only.

It is worth positing that DeFi products and services are a result of the person(s) and entit(ies) that create, offer and maintain them. These persons and entities typically determine from a project's inception how participants are or can be organized, including whether participants will or can organize as a *DAO*, a foundation, or something else. They also often design ways for participants to influence how certain aspects of a project's protocol will operate in the future, including by giving certain participants the ability to alter smart contracts or other aspects of the project's protocol. These ways can include the use of administrative keys, ¹⁰³ multi-sig and time-lock mechanisms, ¹⁰⁴ code updates, and voting tokens (often referred to as governance tokens). These entities and individuals in most cases establish the fundamental features of the protocol, such as how decisions will be made, who makes those decisions and for what aspects of the project, and who has access to information concerning those decisions. This section explores how novel organizational structures (DAOs) and governance structures (governance/voting tokens) can be analysed for the purpose of determining control or influence.¹⁰⁵

The 2022 Report noted that some DeFi market participants claim that governance is decentralized. DeFi projects may use various mechanisms to distribute governance roles, such as DAOs and governance/voting tokens, in order to provide evidence of decentralization. However, there are many different permutations of governance arrangements and the role they play within an enterprise. The fact that elements of a DeFi

Administrative keys refer to cryptographic key information that permits a holder of that key information to make certain changes to a smart contract including, potentially, by permanently disabling the smart contract. Administrative keys effectively can place ultimate control over a smart contract in the hands of the administrative key holder(s).

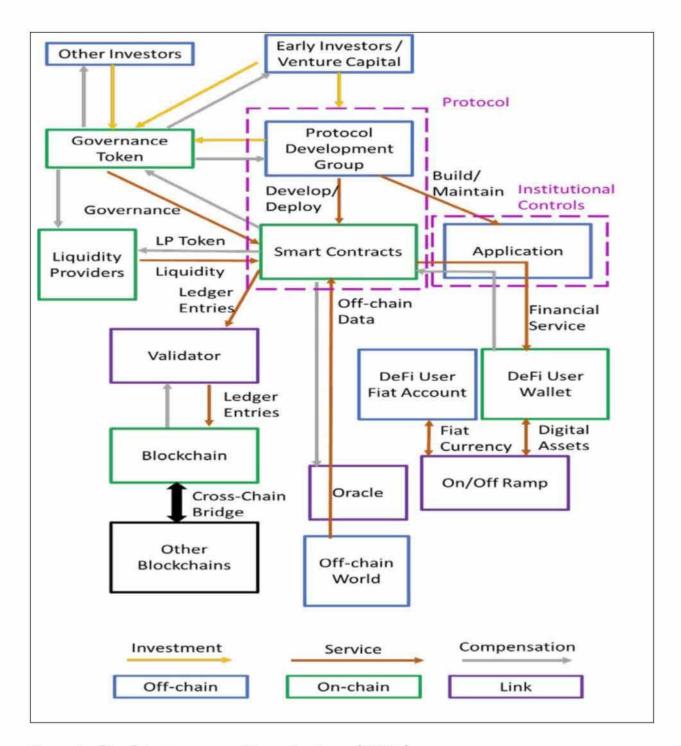
Multi-signature ("multi-sig") refers to smart contracts that require a number of holders of cryptographic key information to agree on an action before it takes place, indicating that agreement through using the key information to "sign" a transaction. Some multi-sig mechanisms require unanimous agreement, while others require a given number of a set of participants to agree to the action. Time-lock smart contracts implement delays in executing a function until a given amount of time has passed. Such delays can allow for additional governance activities (such as deliberations) before the action considered in a time-lock contract is performed.

A DAO can, but need not, employ governance or voting tokens. Conversely, a project that uses governance or voting tokens need not be a DAO.

arrangement or activity may be viewed as distributed or subject to community vote does not mean that the arrangement or activity itself is decentralized. As discussed below, governance/voting tokens currently may play a limited role in affecting the substance of smart contracts and play almost no role in managing or overseeing the entity and developers of the smart contracts and protocol at the enterprise level. Furthermore, while DAOs are presented as a solution to community governance, DAOs and their development are still in the nascent stages. Additionally, while a particular DeFi protocol may aim to be resistant to censorship or collusive control, there may still be an ongoing dependency of protocol development and functionality on central actors, such as developers or founders. In DeFi, the issue of governance must be evaluated from both the smart contract or protocol level as well as at the enterprise level. Examining DeFi project's governance structure will typically reveal potential regulatory touchpoints.

Enterprise Level - The Big Picture

The 2022 Report noted that the provision of DeFi products and services relies on the contributions of various stakeholders, each of whom has an important role to play and expects to earn a profit through participation. These stakeholders include the developers and promoters of a DeFi project, investors in the project, users, service providers, and blockchain networks. The 2022 Report includes a detailed discussion of the Big Picture to assist in analyzing DeFi arrangements and activities at the enterprise level. In particular, persons and entities develop and deploy the software and other components through which DeFi operates. These persons and entities often obtain funding for their development efforts from investors in traditional capital raising and via crypto-asset offerings. As protocols are developed, these persons and entities often create a reserve or treasury to hold fiat currencies or crypto-assets for purposes of funding future refinements and development of the protocol. These persons and entities may either control these reserves themselves or may create a different organization to manage the reserve or treasury. The specific organizational forms that develop and deploy protocols and those that are responsible for ongoing activities can vary. Common types include traditional corporate entities, foundations that often hire others to work on the protocol, and DAOs. DAOs are becoming increasingly an organizational choice for DeFi projects. Whatever organizational form a particular DeFi project takes, and whatever tools it may use to carry out its operations, it is important to focus on the DeFi arrangement or Often, this viewpoint will reveal who has control or activity at an enterprise level. sufficient influence over the operations of the enterprise so as to be responsible for its activities. Below is a reproduction of the Big Picture from the 2022 Report, which contains a detailed explanation and breakdown of each component of the Big Picture: capital formation, development and deployment; use and investment; and settlement.



Decentralized Autonomous Organizations (DAOs)

As the 2022 Report explained, some DeFi market participants experiment with new organizational structures in an attempt to achieve more decentralized systems. A DAO is a relatively new type of organizational structure that purportedly focuses on community, as compared to centralized, governance. There is no agreed definition of what constitutes a DAO, even within the industry. DAOs and their structures are evolving. According to one

industry source, as of August 2023, there are more than 25,000 DAOs controlling treasuries worth \$22.5B.106

In brief, a DAO typically is a form of coordination for a group of people who coalesce around common goals. DAOs vary in structure and complexity. They can use smart contracts and other technologies to facilitate a number of processes, such as communicating, coordinating, and incentivizing individuals to act collaboratively.

DAOs may have different legal characterizations depending on the particular jurisdiction. In some jurisdictions, a DAO may be recognized as a unique and separate type of legal entity. In others, DAOs may be analyzed under frameworks that already exist for partnerships, joint ventures, associations, limited liability entities, or similar structures. 107 The legal organizational treatment for any particular DAO will depend on the facts and circumstances, including how it is structured, and the applicable law within a jurisdiction in which the DAO has a presence for purposes of any particular authorities' remit. However, to enable the principle of "same activity, same risk, same regulatory outcome," regardless of the legal characterization of a DAO from an organizational standpoint, the focus from a regulatory and supervisory standpoint typically will be on the activity the DAO is engaging in, such as whether the DAO's activities or structure involves a financial instrument, including a security, or related activities, in a particular jurisdiction.

Why are DAOs Claimed to be Decentralized?

DAOs are, at their essence, organizations of humans. DAOs are described as "decentralized" because they may claim that they operate without reliance on centralized management. DAOs are described as autonomous because they claim (or aim) to operate in an automated manner in accordance with the rules encoded in self-executing code (smart contracts) rather than in accordance with traditional articles of association or shareholders agreements.108

The common perception may be that in DAOs, entity level decisions such as what action the DAO takes or changes or alterations to the operation or activities of the DAO are determined by its membership, and are not dependent on, determined by, or controlled by In practice, however, the extent of actual voting any person or group of persons.

https://deepdao.io/organizations.

¹⁰⁷ See, e.g., CFTC v. OokiDAO, Case No. 3:22-cv-05416 (N.D. Ca. June 8, 2023), https://www.cftc.gov/PressRoom/PressReleases/8715-23 (entering a default judgment order against a DAO whom CFTC charged with operating an illegal trading platform and unlawfully acting as a futures commission merchant); Sarcuni v. bZx DAO, Case No. 22-cv-618-LAB-DEB (S.D. Ca. Mar. 27, 2023), https://casetext.com/case/sarcuni-v-bzx-dao (finding that plaintiffs stated facts sufficient to allege that a general partnership existed among token holders of a DAO).

¹⁰⁸ Often, token holders will have some ability to participate in certain decisions, such as aspects of a project's protocol, electing working group contributor or leaders for the DAO, or administering the DAO's treasury. Often, in practice, a DAO's creators, or others, will still exercise control or sufficient influence, whether through a concentration of voting power, administrative or other gatekeeping functions, or otherwise.

participation can be low¹⁰⁹ and a DAO's *governance* actions through voting tokens can have a very concentrated distribution, with less than 1% of token holders controlling 90% of voting power of DAOs.¹¹⁰ Moreover, the types of decisions that can be voted on can be quite limited.

Whether and to what extent any particular DAO actually is decentralized or autonomous depends on the facts and circumstances and requires an in-depth examination of how that DAO is structured and how it is operating in reality.

Regulatory Actions Involving DAOs

The DAO Report

In 2016, a project called The DAO launched on the Ethereum blockchain, raising \$150 million in ether from investors in exchange for crypto-assets called DAO tokens, which entitled holders to vote on blockchain-based projects that would receive funding from The DAO. The DAO's plan was to invest funds in such projects, with profits flowing back to DAO token holders. Before the DAO had commenced funding projects, an attacker exploited a bug in the DAO's smart contract code and was able to divert about one-third of the funds held in the DAO's treasury. A period of uncertainty followed, with the members' remaining funds essentially immobilized within the DAO. Ultimately, and controversially, the effects of the attack were reversed (and the funds returned to investors) through a process known as forking, in which the blockchain was essentially split into two separate chains (Ethereum and Ethereum Classic). On the Ethereum chain, DAO funds could be reclaimed by investors. On July 17, 2017, the US Securities and Exchange Commission (SEC) issued a Report of Investigation Pursuant to Section 21(a) of the Securities Exchange Act of 1934: The DAO (Exchange Act Rel. No. 81207) (the DAO Report), explaining the application of US federal securities laws to The DAO. The DAO Report explained that The DAO tokens had been offered and sold as investment contracts, and therefore securities, and that the offering should have been registered under the federal securities laws since no exemption to registration applied. The DAO Report also made clear that the US federal securities laws may apply to various activities without regard to the form of the organization or technology used.111

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Youssef Faqir-Rhazoui, Javier Arroyo & Samer Hassan, *A comparative analysis of the platforms for decentralized autonomous organizations in the Ethereum blockchain*, 9 J. INTERNET SERV. & APPL. 12 (2021), https://jisajournal.springeropen.com/articles/10.1186/s13174-021-00139-6.

Dissecting the DAO: Web3 Ownership is Surprisingly Concentrated, CHAINANALYSIS (June 27, 2022), https://blog.chainalysis.com/reports/web3-daos-2022/.

See Release No. 81207, U.S. Securities and Exchange Commission, Report of Investigation Pursuant to Section 21(a) of the Securities Exchange Act of 1934: The DAO (July 25, 2017), https://www.sec.gov/litigation/investreport/34-81207.pdf.

The Ooki DAO

On September 22, 2022, the US Commodity Futures Trading Commission (CFTC) filed an enforcement action in district court against a DAO called the Ooki DAO, alleging that the Ooki DAO was "illegally offering levered and margined retail commodity transactions in digital assets; engaging in activities only registered futures commission merchants (FCM) can perform; and failing to adopt a customer identification program as part of a Bank Secrecy Act compliance program, as required of FCMs."112 The district court permitted the CFTC to achieve service of the Complaint by alternative means, consisting of providing a copy of the summons and complaint through the Ooki DAO's "Help Chat Box," and an online discussion forum on the Ooki DAO's public website. 113 On June 8, 2023, the district court judge entered a default judgment order that requires the Ooki DAO to pay a civil monetary penalty; orders permanent trading and registration bans; and orders the Ooki DAO, as well as any person or entity acting on its behalf providing web-hosting or domain-name registration services in the US, to shut down the Ooki DAO's website and remove its content from the Internet. The Court held that the Ooki DAO is a person for purposes of the Commodity Exchange Act and thus can be held liable for violations of the law.114

Different Types of DAOs and their Uses¹¹⁵

Like other organizations, DAOs are heterogeneous, and their goals, scale, and participants can vary widely. DAOs can be organized for various stated purposes, whether charitable, profitable, social or technological. Although most DAOs have been focused on online-

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See CFTC v. Ooki DAO, Civ. No. 3:22-cv-5416 (N.D. Ca. Sept. 22, 2022), https://www.cftc.gov/PressRoom/PressReleases/8590-22.

See CFTC v. Ooki DAO, Civ. No. 3:22-cv-05416-WHO (N.D. Ca. Dec. 20, 2022), https://storage.courtlistener.com/recap/gov.uscourts.cand.400807/gov.uscourts.cand.400807.63.0.pdf

⁽holding that service has been achieved).

See Release No. 8715-23, Statement of CFTC Division of Enforcement Director Ian McGinley on the Ooki DAO Litigation Victory (June 9, 2023), https://www.cftc.gov/PressRoom/PressReleases/8715-23.

Bud Hennekes, *The 8 Most Important Types of DAOs You Need to Know*, Alchemy (April 6, 2022), https://www.alchemy.com/blog/types-of-daos; Georgia Weston, *Know The Different Types Of DAOs*, 101 BLOCKCHAINS (April 29, 2022), https://ioliblockchains.com/types-of-daos/; *Full 2022 Guide to Different Types of DAOs*, MORALIS WEB3 TECHNOLOGY (2022), https://ioliblockchains.com/types-of-daos/.

related projects, their presence has been expanding. ¹⁶ DAOs can be grouped into a number of general categories, each purportedly designed to serve a specific purpose. ¹⁷

DAO Participants

The following participants are generally involved in a DAO:

- Developers and Founders: Developers and/or founders typically create, code, promote and deploy a DAO, including its associated smart contracts. Typically, they establish the structure through which governance will be effectuated.
- Members: Some DAOs are set up so that membership is based on the ownership of
 tokens, often called DAO tokens or governance tokens. These typically provide
 certain types of voting rights, which may or may not relate to the operation of the
 DAO or its activities. Others establish their membership in other ways.
- Employees/Contractors: DAOs can hire individuals or entities for a wide range of roles, including for accounting and legal services. Whether or not a DAO has a manager or a managing group responsible for hiring and other managerial or administrative duties will depend on the particular DAO.
- Working Groups: Many DAOs have adopted a division of labor into working groups (also known as workstreams or subDAOs), each of which may comprise a group of members or other contributers to the DAO. As compensation for serving on such a working group, a contributer typically is paid by the DAO from its treasury. Working groups have focused on such topics as product development, operations, growth and marketing. These groups might manage things like

117 Industry reports describe various types of DAOs, including the following: protocol DAOs (facilitate operational choices about certain aspects of a DeFi protocol, such as a DEX or borrowing/lending protocol); grant DAOs (facilitate funding of projects, typically associated with a DeFi protocol or ecosystem; typically are established by the protocol developers or close affiliate; typically disburse treasury funds to support projects to develop a protocol or ecosystem); philanthropy DAOs (support socially responsible initiatives); social DAOs (bring together individuals to create communities and working groups around social issues; often form exclusive memberships to organize social events or to provide some other social benefit to members); collector DAOs (pool funds to purchase something, often a digital good, such as a 'blue chip' NFT or other digital collectible; each member typically owns a pro rata share of the item purchased, corresponding to their pool input); investment and venture DAOs (pool capital to invest, typically in DeFi start-ups and protocols; aim to provide access to investment portfolios that may not be available in traditional finance); media DAOs (create media platforms, often aiming to create platforms where content creation is driven by the community and individuals in the network are incentivized to contribute based on the ability to earn profits from participation; subDAOs (manage specific functions such as operations or partnerships within the DAO); employment DAOs (facilitate matching of human skills with demand; contracts members' skills to other individuals and entities).

Amir Ghavi et al., *A Primer on DAOs*, THE HARVARD LAW SCHOOL FORUM ON CORPORATE GOVERNANCE (Sept. 17, 2022), https://corpgov.law.harvard.edu/2022/09/17/a-primer-on-daos/.

upgrades to a protocol, grants programs to incentivize protocol usage, and promotional campaigns, respectively. In addition, DAO collectives have formed to fund and support development.¹¹⁸ These types of organized management are a part of the facts and circumstances analysis when evaluating the treatment of DAOs under applicable regulatory frameworks.

Third-Party Service Providers: DAOs often hire third parties to provide legal, recordkeeping, accounting, banking or other services. There are different mechanisms a DAO may use to engage these entities, many of which may entail human involvement in selection and retention of these third parties. A DAO could authorise, through a governance vote or otherwise, the use of third-party service for a particular purpose. The DAO could also authorize an individual or a group to create and capitalise a traditional corporate entity for the purpose, for example, of entering into a corporate agreement on behalf of the DAO or delegating a scope of decision-making to a particular individual or group. DAOs also use third-party service providers to host forums for discussion and voting, as well as to store code, create open-source projects and build software. Some third-party service providers offer a combination of these services. Third party services are also used to enforce *token-gating* where access to certain information is restricted based on ownership of a token, particularly the DAO's token. The extent to which these DAO activities are initiated or controlled by a person or group of persons is a facts and circumstances determination.

DAO Formation

DAOs are created by persons or entities who typically will sell crypto-assets or otherwise raise capital to further the DAO's stated purpose. The DAO typically will issue crypto-assets in accordance with a plan of distribution put in place by the persons or entities. ¹¹⁹ Often the creators of a DAO will deposit the DAO's assets into its treasury and assert that the management of the DAO will take place through the votes of token holders. Treasuries are generally used to fund the DAO's initiatives, and typically comprise tokens from an initial distribution and fees charged to users by a protocol for its use.

DAO members typically become members by purchasing or otherwise obtaining crypto-assets issued by the DAO (DAO tokens) although, depending on design, some members need not hold tokens. DAO tokens typically can be purchased by anyone interested in joining a DAO, in exchange for other crypto-assets or for some form of contribution or service to the DAO. DAOs distribute DAO tokens in many of the same ways other crypto-asset token issuers distribute them, i.e., through direct distribution to purchasers or users, through initial purchasers who then on-sell them to a broader set of purchasers (akin to underwriting), or through platforms or protocols (who, themselves, could be akin to issuers, brokers or dealers). They may also distribute them through "air drops," often to founders, members who provide services to the DAO, members who have been most actively involved in governance of the DAO, other crypto-asset holders, or users of protocols that the DAO is associated with. DAO distributions can occur through private sales, vesting and liquidity mining, as well. Once issued by a DAO, DAO tokens typically can be traded for other crypto-assets on DEXs, deployed into DeFi protocols, and often are traded on CeFi crypto-asset trading platforms.

See, e.g., 5. Pilot: May '22 - May '23, PROTOCOL-GUILD, https://protocol-guild.readthedocs.io/en/latest/5-initial-pilot.html.

In theory, a DAO's governance rules could be encoded in smart-contracts on the blockchain on which it depends and all on-chain activity associated with a DAO could be immutably recorded on the blockchain, providing transparency to observers. ¹²⁰ In practice, however, DAOs rely critically on input from human actors for their operation, including through activities that occur off-chain. DAOs often are accompanied by their own foundational documents that describe the goals of the DAO. ¹²¹ Some of those foundational documents have been described as constitutions, covenants, manifestos, charters, codes of conduct, and guidelines, among other descriptions. ¹²²

As it is costly to record every action to a blockchain, much of a DAO's activities typically occur off-chain. Off-chain communication tools are used to increase efficiency, facilitate onboarding, discuss proposals, and come to an agreement with members to achieve their goals. ¹²³ The most popular communication tools used by DAOs today include popular social media platforms. Each of these services have varying terms of service and features. Thus, contrary to widely made assertions, while a DAO may involve elements of governance carried out by smart contracts on a blockchain, it also includes off-chain governance involving human interaction and negotiation. ¹²⁴

DEFI VOTING STRUCTURES

A major tenet of DeFi is to eliminate reliance on centralized institutions, including centralized governance structures. Some DeFi entities attempt to effectuate governance in ways that claim to avoid centralized control and to flatten hierarchies. The stated effort is to spread power among a broad participant base. Proponents of DeFi assert that code can be deployed to obviate the need for traditional centralized governance mechanisms. Nevertheless, and notwithstanding new approaches to governance, it has become clear that control and decision-making authority in DeFi projects as a practical matter remain concentrated, and a relatively small number of participants may in reality exercise dominion over a DeFi project or protocol, including the ability to control or influence its operation.

Some proponents of DAOs proffer that a DAO's activities can be managed completely on-chain so that anyone can observe its activities, audit its smart contract code, and participate - giving both investors and workers greater transparency and involvement into the inner workings of the organization, with the same opportunities to profit or benefit from its operations.

See https://github.com/metagov/constitution-template/tree/main/constitutions (a repository of DAO constitutional documents).

See, e.g., https://constitutions.metagov.org/article.

Hatice Ugurel, *The best communication and consensus tools for DAOs in* 2022, MEDIUM (Apr. 12, 2022), https://medium.com/multytude/the-best-communication-and-consensus-tools-for-daos-in-2022-7a8a26134204.

BlockScience, *Exploring DAOs as a new kind of institution*, MEDIUM (Mar. 31, 2021), https://medium.com/block-science/exploring-daos-as-a-new-kind-of-institution-755eb119996b.

As observed in DeFi as currently operating, governance mechanisms can broadly be described in two categories: social and algorithmic. Social governance mechanisms facilitate organization and communication across networks of people, often using social media tools and fora.125 Algorithmic governance mechanisms program rule sets into code, smart contracts and DLT-based protocols, which will be executed by computer nodes performing functions across a DLT network.126 In most cases, DeFi governance is carried out by some combination of social and algorithmic mechanisms. However, it is important to note that, while most DeFi projects claim to rely to a varying degree on algorithmic governance mechanisms, code itself is created and deployed by humans and requires ongoing human participation to effectuate maintenance, development and upgrades. The projects themselves also rely on social governance mechanisms.

Also, various activities within these two types of mechanisms - social and algorithmic - can and do occur on-chain and off-chain. For example, a governance proposal for a particular DeFi project may first be introduced to a community off-chain, on a project's website, or a social media forum. The proposal may then be posted to, discussed and iterated upon in an off-chain forum dedicated to project governance, and may be the subject of informal polling to gauge community sentiment.127 In some cases, a proposal may need to secure sufficient support in an off-chain poll or vote in order to proceed further. Once a proposal has gained informal consensus, it may proceed to a formal voting process that can be implemented on-chain, off-chain, or through a hybrid model.

Governance (Voting) Tokens

DeFi projects often attempt to distribute governance through the use of crypto-assets that confer certain voting rights. These are often referred to as governance tokens or simply voting tokens. As described in more detail in the 2022 Report, DeFi projects - whether or not they are organized as DAOs - attempt to argue that the existence of these governance or voting tokens provide decentralized governance. Such claims, however, must be examined to determine how a particular protocol actually is managed and what voting rights any of the governance or voting tokens provide, and whether at the entity or at the smart contract level. The following section describes how governance tokens are being used

¹²⁵ Governance Web3 Networks 8 Other GITHUB.COM, See of DAOs, https://github.com/sherminvo/TokenEconomyBook/wiki/Governance-of-Web3-Networks-&-Other-DAOs ("Social governance refers to the human decision-making process over when and how to conduct potential protocol upgrades in a Web3 network or in the smart contract code of a DAO. It deals with the institutionalized decision-making process of how stakeholders in the network receive necessary information to make educated decisions about future protocol upgrades.... However, navigating in a sea of information, and evaluating the authenticity and credibility of that information and signaling is difficult.").

¹²⁶ 2022 Report, supra note 5, at 3 (for a discussion of "smart contracts").

¹²⁷ DeFi project sponsors may provide a forum for participant discussion and community feedback. Many projects use a template/white label forum service hosted under a specific project URL. See, e.g., https://www.discourse.org. Project sponsors may also take the lead in soliciting feedback, coding specific proposals, requesting votes, and promoting adoption.

in DeFi. It identifies their role and uses, the technical aspects of how they function and their limitations, and also highlights potential risks that arise from their use.

As described in the 2022 Report, governance (or voting) tokens purport to confer certain voting rights on their holders (or a holder's delegated persons, if the voting rights can be delegated). Typically, voting tokens entitle their holder to participate in certain aspects of governance (e.g., to make proposals to be submitted to a vote of the members and to vote on proposals made by other members) and/or to share in any profits the project generates (typically through the use of the governance token in the protocol in some way).¹²⁸

When a project determines it will use voting tokens, it can establish the rules of voting in several respects, including the type of voting structure. Voting tokens confer voting rights that may be exercisable only by the token holder or that may be delegable by the holder to another. Voting power may be proportionate to the number of tokens held, can be one vote per participant, or there can be some other form of voting structure, such as a representational or delegated voting structure, to combat a lack of continued interest in governance among many participants. Whatever the structure used, it is important to focus on what types of decisions vote holders can actually vote on, among other factors discussed above. Some common approaches to voting structures have emerged and are described in industry reports. 129

First, ownership of governance tokens for any given project can be highly concentrated, either because the project initially distributed the tokens in a way that placed large concentrations in a single person or a group of persons, or because, due to the transferability of such tokens, certain entities then acquired significant shares of tokens, or voting rights relating to such tokens. Based on on-chain data, it appears that, for many DeFi projects, much of the voting power resides in a few wallets. Data also shows that governance token holders tend to be inactive in governance voting. The participation for most of the proposals reportedly involved less than 10% of the total outstanding supply of tokens.

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In order for a project that uses governance tokens to do this, at a minimum, the governance tokens must be widely distributed among project participants and grant them the actual ability to participate in the management of a project, and a dispersed community of those participates must actually participate in the management of the project through community voting. Examining publicly available data regarding current DeFi projects indicates that this is not achieved in practice and there are practical limitations to its achievement.

Some of these structures are referred to as *quorum* (requiring a certain threshold of voters); *permissioned relative majority* (no minimum voting requirement); *quadratic* (modified form of ranked choice voting); *conviction* (based on the aggregated preference weighted by time); *multisig* (voters signal on proposals while a committee votes); *liquid democracy* (participants delegate their votes). *See e.g.*, Eric Arsenault, *Voting Options in DAOs*, MEDIUM (Dec. 15, 2020), https://medium.com/daostack/voting-options-in-daos-b86e5c69a3e3; *DAO Voting Mechanisms Explained* [2022 Guide], LIMECHAIN (May 23, 2022), https://limechain.tech/blog/dao-voting-mechanisms-explained-2022-guide/.

Second, a project can have voting tokens that allow the voting rights associated with the tokens to be delegated, lent, or otherwise assigned, such that someone other than the token owner may, in fact, exercise the power to vote that token. Thus, regardless of voting token ownership concentration, voting power itself, through delegation, can be concentrated in a single person or a group of persons that may or may not have a direct financial ownership or other interest specific to that project.

Third, the types of decisions that can be voted upon with respect to any particular project vary and may be limited to those that do not significantly impact the management of the project, or the management of the entity creating or involved with the project. Certain fundamental features of a project's protocol may be fixed in the original protocol code and not subject to change or may be subject to the control of a single person or a small group of persons. Further, token holders and their votes may be treated as advisory guidance to a controlling person(s) rather than as a binding decision. Votes may merely ratify or accede to actions already taken that impact a DeFi protocol or project. It may be the case that a protocol's core developers, operators or other select participants retain the sole ability to change core aspects of a protocol, and that the scope of proposals that governance token voters can vote on is limited. In fact, the project organizers may minimize governance intentionally so as to ensure that a protocol's fundamental operation is not subject to change. This is a concept that has been referred to as "governance minimization" where protocols are designed to reduce the chance that a core aspect of the protocol will change in order to enhance the long-term dependability of the protocol, especially if it is "composable" (i.e., compatible) with other protocols or elements in the DeFi ecosystem. As composability is a feature of DeFi, allowing for developers to build upon open-source code and integrate with other protocols, a project may design its protocol so as to minimize ways that the core code of the protocol can be changed. In other words, in order to "trust" a particular protocol, a user typically would want to know that the protocol acts reliably, predictably and that someone would be accountable for any deviation. Governance minimization may also help protect a protocol from certain types of attacks. If, for example, governance token voters could use their power maliciously to access funds locked in smart contracts or change core terms to exploit a protocol, this would reduce the security and resilience of the protocol.

Fourth, a number of factors, apart from the ownership concentration, voting power distribution and the aspects subject to change by vote, may diminish the degree to which governance is decentralized. These include policies and procedures that have been set regarding the process for proposing project changes, voting on such changes (e.g., quorum requirements, nature of the vote, timing, etc.), and implementing those changes.

Analyzing Governance Structures

When analysing a DeFi project's governance structure -- whether or not it is organized as a DAO -- it is critical to understand who can change which aspects of the project and how. Determining how governance works in any particular DeFi project requires a careful assessment. In analysing governance/voting token structures, it is useful to determine, among other things:

- who issued the governance/voting tokens and how were they offered, sold and/or distributed, including to the core team, investors and the community, and whether there were any limitations to voting, such as by time-locks, thresholds, or other means;
- who controls the governance/voting token issuer and what type of entity is that issuer;
- who controls the funds of the issuer and how;
- what type of legal entity, if any, is used to enter into agreements, contracts and capital raises;
- which aspects of a project can be altered by token vote, and whether there are some
 aspects that only select individuals can alter (i.e., assigning and revoking powers
 delegated to the operator/core development team, creating budgetary proposals,
 changing core protocol parameters);
- who decides which aspects of the project can be altered by token vote, and whether and how this can be altered;
- whether there is a minimum threshold of token ownership or voting power for proposing a governance change, voting on a proposal, or passing the proposal;
- whether governance/voting requires additional technical functions, i.e., delegation or locking into smart contracts or *staking*;
- whether there are any limitations on who can vote on a proposal (all users/token holders, only governance/voting token holders, other token holders, or only the operator/core development team);¹³⁰
- whether there are any individuals with any gatekeeping function, i.e., veto power, power over whether a proposal is put to vote, power over whether a proposal, if approved, actually is implemented;
- what is required to implement a particular proposal, i.e., whether the alteration is
 effected automatically on-chain or requires select individuals to implement, i.e.,
 with an administrative key;
- whether there are aspects of the project that can be changed unilaterally by the operator/core development team (e.g., through an administrative key);
- in reality, how concentrated is the proposal, voting, and implementation power of decision-making; is the decision-making spread across a large group of disparate persons or is a smaller group of persons exerting actual control;
- What role do founders and/or developers play;
- · Are any services being used to facilitate governance; and
- How are processes and the implementation of decisions automated.

In the use of governance/voting tokens for DeFi governance currently, there is significant interplay between an on-chain and off-chain governance processes, as they are not mutually exclusive and often are used in combination. For example, in a common scenario of DeFi governance: a high-level proposal is introduced and discussed in off-chain

¹³

In certain DeFi protocols, besides a governance/voting token, there can be one or more other tokens used for its business and operations, such as an LP token, or a stablecoin.

communications on social media; an initial proposal is posted and discussed on an off-chain governance forum; a "signaling vote" is conducted off-chain (usually with no token required); if the proposal passes the signaling vote, the proposal is posed to, for example, Snapshot for a vote off-chain (a token may be required to participate); if passed, a final vote is conducted on-chain (token is required to participate).¹³¹ Thus, during a typical voting process, off-chain voting may or may not require that a voter hold a voting token, while on-chain voting usually permits only those with the private key associated with each of the tokens the ability to cast a vote, usually in proportion to the quantity of governance token held (unless voting power has been delegated to another).

DeFi governance generally is not self-implementing and human involvement typically is necessary to effectuate governance decisions. At a minimum, proposals to make any changes to a project's protocol, smart contracts or code must be translated into usable code and implemented, so those with governance control often must rely on others with technical control and skill (i.e., administrative access and requisite technical capability).¹³²
¹³³ Even for pre-programmed governance actions that are programmed to be implemented autonomously by means of a smart contract or other code, intervention by those with administrative keys may still be necessary. Those with an administrative key may retain the power to intervene or halt pre-programmed actions that have been approved by the voting community. In addition, with respect to ongoing governance through a community proposals process, some DeFi projects may use governance facilitators, who act as gatekeepers for advancing any new proposal to an on-chain vote. Depending on who these individuals are, how they are selected, and what accountability they may have, the use of governance facilitators may result in de facto centralization of control.

Finally, where a token holder keeps their token can impact their ability to vote. For example, if a token holder deposits their tokens into a certain hosted wallet or smart contract, the holder may lose their ability to use the tokens to vote while they are in the wallet or smart contract.

Common DeFi Governance Proposal Characteristics

The following lists typical characteristics of common DeFi governance proposals. The list does not necessarily describe any particular DeFi arrangement in operation today; rather,

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See What is Blockchain Governance: On-Chain vs. Off-Chain, PHEMEX ACADEMY (Oct. 13, 2021), https://phemex.com/academy/what-is-blockchain-governance (describing the Ethereum Merge, noting potential impacts that Proof of Stake (PoS) may have on use and implementation of governance tokens and suggesting that on-chain process may become more formalized as it is easier to do in PoS model).

In some cases, proposals can be "pre-programmed", and by means of a smart contract, may execute if a vote succeeds. Even here, however, power may be reserved by an entity with technical control to nullify a proposal or otherwise stop its implementation.

Conceptually a smart contract could be deployed to monitor governance votes and then automatically implement the will of the community. In practice, however, fully automated governance is unlikely as governance issues may not be foreseeable.

it is drawn from features of existing DeFi arrangements and seeks to capture and illustrate common and prevalent features and activities pertaining to the listed categories.

Characteristics of Proposal Origination:

- Project Change Process
 - On-chain
 - Off-chain
 - Hybrid
- Eligibility of Proposals
 - Direct proposing
 - Approval by community poll
 - Chaperoned by project or community representative
- Eligibility to Proposing
 - No restrictions
 - Token gated online forum access
 - o Token ownership threshold
- Proposal Vetting
 - None
 - o By community in online forum
 - By selected committee or project leadership

Characteristics of Voting Rights:

- Eligibility to Vote
 - Token ownership
 - Token delegation
 - Token staking
 - Address whitelisting
- Vote Mechanism
 - Assigned to an address based on token ownership
 - Assigned to an address based on token delegation
 - Assigned to an address based on token staked
 - o Assigned to an address based on whitelisting
- Weighting of Voting Power
 - No weighting
 - Weighting based on type of token owned
 - Weighting based on balance of tokens owned
- Location of Vote
 - On-chain
 - Off-chain
- Major Holders (As % of total token supply held by a single address)
 - o e.g., 25% to >40%
- Treasury Tokens (As % of total token supply)
 - o e.g., 8% to >30%

Characteristics of Voting Process:

- Voting window
 - Total number of votes
 - o Quorum threshold
 - Time limited
- Proposal Execution
 - o On-chain, automatic
 - o On-chain, automatic with time-lock
 - o On-chain, manual with multi-sig
 - o Off-chain, manual with development
 - o Off-chain, manual with committee approval
- Quorum requirement
 - o None
 - o e.g., 2% to 20% varying on type of change
- Observed typical participation rates
 - o e.g., o% to <20%
- · Emergency approval process
 - None
 - o Emergency shut down or freeze
- Number of Proposals Voted on
 - o e.g., o to >500

Characteristics of Vote Impact:

- Stated intent of vote
 - Non-binding
 - o Temperature check
 - Signaling
 - Ratification
 - Binding
- · Time-lock before execution
 - None
 - o e.g., 1 to 7 days
- · Emergency shutdown
 - None
 - Yes, through voting
 - o Yes, through multi-sig
 - o Yes, through admin or guardian rights

Characteristics That Can Be Voted On:

- Protocol parameter changes
 - Interest rates
 - Fees
 - Supported assets

- Changes to tokenomics
- o Upgrades to the codebase
- · Project operations
 - Key personnel
 - o Committee structures
 - o Multi-sig ownership
 - o Deployment to new blockchains
 - o Deployment of supporting infrastructure
- Treasury
 - o Distribution of funds for operations
 - o Distribution of funds for grants
 - o Distribution of funds for individual use

Characteristics of Proposal Implementation Gatekeeping:

- On-chain
 - Time-locks
 - o Admin and guardian rights
 - o Deployment of new smart contracts
 - o Disbursement of funds if digital asset
- Off-chain
 - o Manual development
 - o Appropriate development repository access
 - Disbursement of funds if fiat currencies

ANNEX E – UPDATE TO RISKS AND CONSIDERATIONS RELATING TO DEFI ACTIVITIES

The 2022 Report set forth many of the risks relating to DeFi activities, which persist today. This Annex highlights and gives more detail into certain risks that have been prominently illustrated by recent events and trends.

Risks Associated with DeFi Governance Structures

Specifically, since the publication of the 2022 Report, DeFi governance structures have continued to evolve, as discussed further in <u>ANNEX D</u>. Below are some of the key risks to investor protection and market integrity that arise as a result of common DeFi governance structures, in particular DAOs and governance/voting tokens, used individually or in combination.

Pseudonymity/Anonymity

The pseudonymity and anonymity¹³⁴ that are enabled through the use of DLT pose several unique risks when using DeFi arrangements and services that employ distributed governance mechanisms. These include:

- Unknown counterparties and affiliates: Typically, anyone can engage with DeFi protocols by purchasing or otherwise acquiring tokens, and token holders are not required to verify their identity, through anti-money laundering (AML)/know your customer/client (KYC) procedures or otherwise. As such, participants' real-world identities are not generally known to one another. As a participant in a DeFi governance mechanism through, for example, membership in a DAO or holding voting rights through governance/voting tokens, the participant may not be able to verify with whom they are interacting, which may put them at risk in terms of engaging with illicit finance actors, among other risks.
- Lack of visibility into actual control: The pseudonymity of blockchain transactions and the opacity into off-chain communications make it difficult if not impossible for investors or users to know exactly who controls a specific DeFi project and how decentralized that control is.¹³⁵ What might appear to be dispersed activity

Typically, transactions occurring on public and permissionless blockchains are pseudonymous, that is, public blockchain addresses may be known and transactions associated with a particular address may be observable using blockchain explorer and analytical software, but the identity of the persons engaging in transactions is not known without additional attribution information. This pseudonymity is possible because of the public/private key cryptography that underlies public blockchains. Furthermore, certain anonymity enhancing technologies, such as anonymity-enhanced crypto-assets, mixers, and other techniques, are sometimes employed to make those persons and/or their transaction details unknowable.

Governance/voting tokens typically are traded on centralized crypto-asset platforms, and therefore significant amounts of them may be held in omnibus wallets belonging to the platform. Thus, it is impossible to know through public address analysis alone the level of concentration among holders

could in fact represent the actions of a single actor or a group of coordinated actors. The ownership and voting of governance/voting tokens, including those of DAOs, typically are unknown to the broader collective of voters and/or members.¹³⁶

- Voting rights and the actual ability to participate in the governance of a DeFi project may be illusory: Aside from ownership and votership concentration, the ability to participate in governance through voting relies upon a number of factors that essentially depend upon how the issuer has established the governance mechanism, including determining which aspects of the enterprise are up for vote, and the policies and procedures around voting. This includes whether a central actor(s) has any *gatekeeping* role over the governance process, such as through holding an administrative or guardian key. In some cases, governance proposals may be required to be submitted in coded form, creating significant barriers to participants who are unable to do so.
- Conflicts of Interest and Collusion: Due to pseudonymity, it is difficult to verify what conflicts of interest exist between various market participants, what conflicts have been disclosed, or the effect of conflicts on other market participants. As a result, it is difficult to ascertain whether large voters who may or may not have an ownership interest in a project and are voters by virtue of delegation are acting in their best interest or in the interest of the project. Further, there may be off-chain, privately communicated efforts to influence token holders and voting delegates. There is also a lack of transparency when it comes to the delegation of voting power where large token holders (whales, venture capitalists (VCs), institutional investors, voting consortia) can have concentrated voting power and can obfuscate their voting activity and control.

Information Asymmetries

Information asymmetries in the context of governance/voting mechanisms, regardless of which technological tools DeFi projects use to coordinate and communicate, can arise from a lack of even-handed communication among members, such as through the

of such tokens. In addition, voting rights may be separable from a governance/voting token ownership such that ownership alone is not a proxy for voting distribution. Further, depositing a governance/voting token in a smart contract or on a platform may mean that it cannot be voted. Furthermore, off-chain activity, such as private communications, could obfuscate concentrations of power, such as through outsized influence of particular actors or collusion, as it would not be visible for participants to monitor. Thus, what seems like community-driven voting could in fact be centralized management. This can occur if, among other reasons, governance/voting tokens are held by a concentrated actor or actors, if voting power is held by a concentrated actor or actors, if a majority of those with voting power are not in fact voting (voter apathy), or if a central actor or actors has control or sufficient influence.

While on-chain data does provide some information with respect to public addresses that hold governance/voting tokens, it is impossible to know – without additional attribution data – who the beneficial owners of addresses are or whether certain addresses belong to the same beneficial owner or related parties.

restriction of access to communication channels.¹³⁷ Information asymmetries could result in the non-disclosure of important information to all governance/voting token holders, enabling potential insider- and self-dealing, and fraud or misappropriation of assets. 138

Cyber Exploits/Attacks

In addition to general cyber risks involving the use of DLT, risks to governance could also occur due to code vulnerabilities or exploits. For example, attackers have used "flash loan attacks" (see the 2022 Report and ANNEX B) to obtain a majority of a DAO's voting tokens in order to drain some or all of the assets from the DAO. Administrative keys that control certain functions of smart contracts can be leaked or "hijacked." Poor logic or coding errors in a protocol have been exploited.¹³⁹ As noted in the 2022 Report, there could be a "Sybil attack" in which certain individuals with advanced knowledge of a governance/voting token "airdrop" could generate multiple pseudonymous addresses to obtain control over a concentration of airdropped tokens to gain influence over a project. In each of these scenarios, the governance process of a DeFi project can be impacted. Even in the absence of an attack on a particular DeFi project, as DeFi is blockchain-based, any disruption or failure of a blockchain that underpins a particular DeFi product or service -- including any congestion, forks, attacks or nefarious activity -- likely will directly impact the operation of a DeFi governance structure. Furthermore, if fees increase on a particular blockchain (e.g., due to congestion), this can impact the practicality of voting for some participants.

Legal Compliance

DeFi projects may be operating outside of, or in non-compliance with, legal frameworks that apply to the activities they are conducting, such as applicable securities and other financial markets laws. As a result, investors and users in DeFi projects, including those involving governance tokens, are not getting the protections that those legal frameworks provide. These protections include protections against fraud and manipulation. Furthermore, investors and users may not have any claim or redress for improper conduct under private rights of action. Legal uncertainty and risk of loss is exacerbated by the crossborder nature of DeFi arrangements.

Governance Token Proposal and Voting Risks

Unlike traditional corporate structures with legally clear lines of responsibility, the legal obligations of participants in structures such as DAOs may be unclear in many jurisdictions. As a result, in any particular jurisdiction, it may be unclear what recourse there could be for any particular token holder for the action or inaction of other token

¹³⁷ Restriction of access can occur through settings of on-chain communication platforms or through restrictions to off-chain communication platforms based on token ownership (token-gating) where software verifies token ownership in a wallet prior to granting access to information.

Spencer Graham, Community Contribution Opportunity, HAUS PARTY, Jan. 4, 2022, https://daohaus.substack.com/p/community-contribution-opportunity.

See. e.g., Greg Noone, Can DAOs survive an onslaught of cybercrime?, TECHMONITOR, July 21, 2022, 139 https://techmonitor.ai/focus/daos-cybercrime-dao-hacks.

holders, or of the DAO. For example, there may be no obligation of managers or others holding significant amounts of governance tokens to act for the benefit of other holders or any limitations on their use or sale of governance tokens. Moreover, once developers monetize their investment through, for example, the sale of their own governance/voting tokens, they may lack the incentive to continue to develop and maintain the protocol.

In addition, a voter who may hold voting rights only through a voting delegation (and not ownership rights) could thereby influence the protocol without any interest in the long-term prospects of the protocol. In any event, a voting community could become polarized over voting decisions, which could lead to significant disruption, forks or network splits, or losses in confidence – all posing risks to holders of governance tokens or participants in the DeFi ecosystem.

Implementation Risks

There are also risks relating to implementation of software code changes approved through governance actions. DeFi protocols are, at least in part, software code. Software typically requires consistent maintenance and upgrade in order to perform optimally. Without such upkeep, software can fail due to compatibility issues, code vulnerabilities, hacks or other operational problems. The code of a protocol and its associated smart contracts may not function as intended or may react in unexpected ways over time as new circumstances emerge that were not anticipated. This raises some key risks relating to governance/voting token structures.

For example, in the event of a software issue, the viability of a DeFi project (and safety of user assets) may depend upon the ability of project participants to identify the issue, develop and code a solution, and marshal the voting apparatus and consensus around necessary protocol changes, often in an expeditious manner. This process is dependent upon many factors, including humans with the technical skills required to propose and code the upgrade, and voter interest and participation to follow through with what is required to approve and implement the proposal. An absence of participants who possess the technical capability, skills and know-how in relation to the coding of a protocol, or an inability to obtain required votes, each raise questions about the timeliness and effectiveness of governance processes. These issues also raise questions of key-person risk, and also that of accountability (e.g., who is responsible for untimely and ineffective governance resulting in failure of a protocol or harm to its users or others).

Risks Associated with Levered Strategies in DeFi

Highly levered products currently are being marketed to and are available to investors through DeFi projects. As a result, investors, including retail investors, are exposed to a number of risks:

- Access to leverage that is higher than on regulated markets, with the potential to magnify losses beyond which the investor can bear;
- Increased exposures to speculative assets that may lack fundamental value (i.e., do not contribute to broader social or economic function and, relatedly, reduction in investment to those that do);

- Substantial product complexity given the terminology used to describe such products (e.g., perpetual futures) and the magnitude of leverage offered;
- Automated liquidation of positions;
- Increased speed by which a position can be liquidated due to the magnified leverage;
- Significant collateral commitment, particularly as leverage increases;
- The potential for traders to access unlimited leverage via leveraging spirals on a lending protocol;¹⁴⁰
- The use of protocol-issued tokens that can then be used as collateral for levered positions, resulting in a form of self-collateralization and encouraging the creation of 'asset bubbles'; and
- Amplification of the high price volatility of the underlying asset due to high leverage and interlinkages resulting in procyclicality.

Excessive leverage can increase both volatility of asset prices and risks for financial stability overall by amplifying procyclicality. To mitigate against default risk, DeFi protocols rely on over-collateralization of positions and automated liquidations in the event that the position held by the trader breaches margin requirements. If these products were developed and used at large enough scale, there are potential systemic impacts arising from liquidation risk as automatic liquidations triggered by price volatility (or a shock to one part of the DeFi ecosystem) can have a procyclical impact on prices, impacting other DeFi protocols or crypto-asset markets generally. Unlike regulated derivative markets there are no countercyclical buffers for DeFi protocols.

Further, the interoperability and interconnectedness of DeFi projects and protocols allows highly levered actors to use their debt as collateral in other protocols, which spreads risk across the system and creates an inherent risk of a system-wide run on assets.

Risks Associated with Liquid Staking

The use of derivatives and risks associated therewith are covered in the 2022 Report. One type of derivative that has emerged since the 2022 Report results from *liquid staking*. Typically, in proof of stake (PoS) network, staked tokens cannot be used for anything else while enabling a validator to participate in the PoS consensus mechanism for the opportunity to earn staking rewards. Liquid staking has developed as a way for holders of crypto-assets that are locked up in PoS consensus activities to continue to be able to use their tokens in other DeFi activities such as trading, lending, or as collateral. Specifically, liquid staking is marketed as a way of participating in PoS validation activities while addressing the lost opportunity cost of locking up staked tokens and, in some cases, overcoming the various thresholds to staking, which can include factors such as minimal amount of tokens to activate a validator, costly hardware, or technical IT expertise. Liquid staking service providers often offer a user the ability to earn multiple tranches of rewards,

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For example, a user can pledge ETH in one DeFi lending protocol in exchange for the protocol's stablecoin which he or she can then pledge on another DeFi protocol in exchange for a different stablecoin, and the process can be repeated indefinitely and is only limited by the level of the collateralization ratio of the lending protocol for assets pledged as collateral.

including a portion of block rewards, transaction fees, and any maximal extractable value (MEV) generated through participation. According to one blockchain analytics firm, liquid staking is the most popular method for participating in Ethereum staking, the largest PoS blockchain network.¹⁴¹

In liquid staking, a crypto-asset holder deposits their crypto-assets with a liquid staking service provider in exchange for another crypto-asset commonly referred to as a *liquid staking derivative* (LSD, also sometimes referred to as a *liquid staking token* or LST or wrapped staked tokens). In many arrangements, the LSD token can be transferred freely to be used in other DeFi activities such as for trading or collateral in another DeFi protocol for lending or borrowing activities to continue to earn yields and eventually can be used to redeem the staked asset if redemptions are available.

Liquid staking providers can also lower the threshold amount of crypto-assets needed to participate in PoS validation activities if minimal thresholds are required. The most common example is overcoming the 32 ETH minimal threshold to activate a validator on the Ethereum PoS network. Liquid staking providers can enable users to deposit less than 32 ETH into the protocol which then pools customer funds together and divides them into 32 ETH batches to activate validators. Liquid staking has grown significantly since Ethereum's Merge event that changed Ethereum from a proof of work (PoW) consensus to PoS consensus blockchain network. Since the Merge event in September 2022, there has been significant growth in the DeFi liquid staking market, growing from approximately 4.6M ETH on September 15, 2022 to approximately 9.4M ETH in June 2023.¹⁴²

The mechanics and governance of liquid staking can change depending on the service provider and whether the service is provided through a centralized trading platform (CEX) or a DeFi platform. CEXs can provide LSDs in various manners, either restricted to use on the CEX platform or transferable off of the platform to be used in other activities such as DeFi activities mentioned above and are not likely subject to the DAO governance structure challenges described above. CEXs may or may not require the use of smart contracts to pool and manage users' deposits and withdrawals, deposit funds to node operators, determine fees, manage LSD token supply and other operational activates.

DeFi liquid staking services can also be organized and governed as DAOs and subject to the DAO governance structure challenges described above. DeFi platforms and related DAOs may rely on one or more smart contracts that typically pool and manage users' deposits and withdrawals, deposit funds to node operators, determine fees, manage LSD token supply and other operations activates. In addition, smart contracts can contain a full list of node operators, their public keys, and reward distribution records.

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https://dune.com/21co/ethereum-staking-and-withdrawals

See id.; https://21shares.com/research/onchain-insights.-

Liquidity Staking Token Designs

In exchange for depositing staked assets into liquid staking protocols, the protocols issue users another liquid token, an LSD, representing their claim on the staked assets. The liquid asset commonly comes in two different token designs: (1) rebasing assets and (2) value-accruing assets.

- Rebasing LSD assets are typically minted at a 1:1 ratio with the deposited crypto-asset. In order to match the underlying deposit plus any accrued rewards or deducted penalties, the token balance updates or *rebases* every day, via an oracle, to calculate rewards and penalties. The daily rebase occurs regardless of where the LSD is acquired; whether it is directly acquired from the protocol, a DEX, or another holder. A wrapping service, similar to Wrapped ETH, is used to enable interoperability of rebasing LSDs with other DeFi protocols.
- Value-accruing LSD assets are typically minted at a 1:1 ratio with the deposited crypto-assets. In order to match the underlying deposit plus any accrued rewards or deducted penalties, the exchange rate between the LSD and the underlying funds changes over time. The value-accruing LSD tokens typically have rights to the underlying staked assets plus rewards minus fees and rely on redemptions of the underlying assets to realize the accrued value. Value-accruing LSD tokens typically do not need wrapping services to be used in DeFi activities.

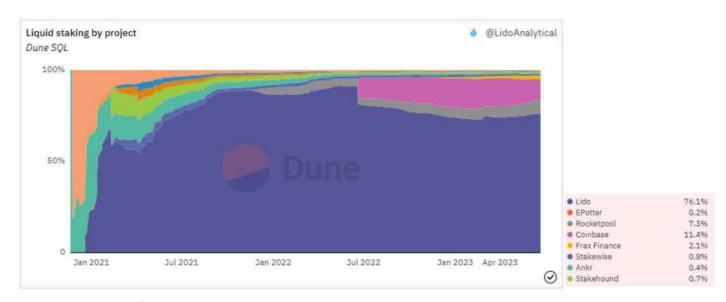
There are a number of risks that arise in liquid staking, some of which are not unique to DeFi or liquid staking activities. These risks include, but are not limited to, the following:

Liquid Staking Concentration of Validators Risk

Liquid staking concentration risks can occur at the validator node operator level where validation of transactions occurs, introducing risks to a PoS blockchain and risks to the users and protocols using the PoS blockchain. Some DeFi liquid staking protocols select a set of node operators that will be responsible for validating transactions using users' deposited crypto-assets that have been pooled by the protocol, in an off-chain process, sometimes decided by a committee. An opaque, off-chain selection process by a committee or a small group can create centralization and possible collusive, manipulative, or censorship behaviors. Concentration of validator nodes can impact the functionality of a PoS blockchain and represent significant consensus risks of a PoS blockchain if a single liquid staking protocol was able to exceed critical consensus thresholds, such as 33% of a network's validators, for an extended period of time. More specifically, an Ethereum researcher recently expressed concerns that if a liquid staking protocol reached critical consensus thresholds, controlling as little as one third of validator nodes, the liquid staking protocol managers could achieve outsized profits compared to other node participants via

coordinated MEV extraction, block-timing manipulation, and/or censorship of block space. 143

Lido currently dominates the liquid staking market for Ethereum holding more than 75% of the total market share.¹⁴⁴



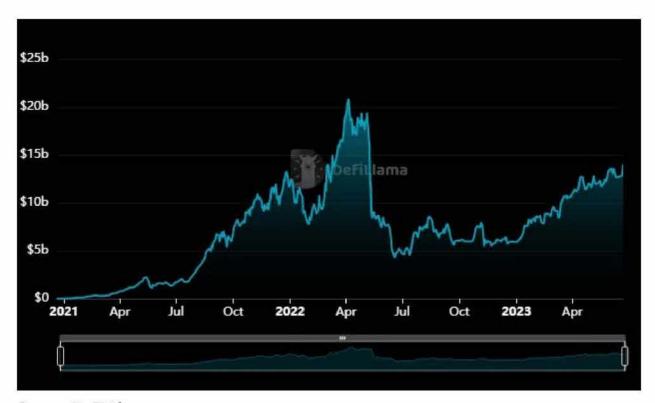
Source: Dune Analytics

Lido's TVL, in excess of \$14B, is greater than the TVL of the second and third largest DeFi protocols, MakerDAO and Aave, combined. 145

The Risks of LSD, ETHEREUM, https://notes.ethereum.org/@djrtwo/risks-of-lsd.

https://defillama.com/protocols/Liquid%20Staking.

https://defillama.com/chain/Ethereum?tvl=true.



Source: DeFi Llama

Smart Contract Risk

Smart contracts add additional risk to the underlying IT operational risks inherent to running validator nodes. Many liquid staking protocols rely on smart contracts to facilitate their operations, LSD tokens, and governance. These smart contract operations can include functionality such as pooling users' funds, batching users' funds, sending users' funds to validators, issuing LSDs, managing LSD token supplies, redeeming LSDs for deposited assets, setting protocol fees, managing node operators, and managing certain governance mechanisms via a DAO.

These smart contract-facilitated operations can introduce previously discussed smart contract risks such as code errors, private key compromises and reentrancy attacks, among others. Even to the extent users' staked assets are locked in a smart contract, a provider could still have access to those assets through, for example, a private key with elevated administration rights. Even if there is no such key, the user is exposed to the risk that assets may be lost through a failure or attack on the underlying protocol or smart contract. These risks can exist at the smart contract level, protocol operational level, LSD token issuance level, and at the governance level if there is a DAO.

DAO Governance Risk

Many liquid staking protocols are organized as or governed by DAOs, offering associated governance tokens and voting structures to determine the direction of the protocol the DAO controls. DAO governance tokens can commonly be bought and sold on both CEX and DEX venues. DAO governance tokens can be susceptible to concentrations of voting power and control by a small number of early and/or large investors who own a significant supply of governance tokens or are delegated voting rights, if enabled by the governance token. Other risks of DAO governance are discussed above.

Redemption Value and Counterparty Risks to User

As with CEX liquid staking arrangements, users participating in a DeFi liquid staking arrangement are subject to redemption risk stemming from a variance in value between the LSD and the value of the staked crypto-asset, the exchange rate, which could impact a user when the user redeems the liquid staking token for the staked token. This can occur if, for example, there is a decline in the value of the liquid asset relative to the staked asset (as it may have less liquidity or less uses, e.g., it cannot be used to pay gas fees). It could also result in an arbitrage event, where the price of a LSD is worth more than the underlying staked assets and redemptions or withdrawals are available.

Counterparty risk also exists to the other DeFi protocols that support LSDs as collateral for lending, trading markets, or other activities. For example, the top four usages of Lido's LSD token, *stETH*, occur in other DeFi protocols offering lending, collateralized debt positions, and swapping at, for example, MakerDAO, Aave and Curve Finance.¹⁴⁷ As observed in reports concerning the collapse of Terra Luna and crypto-asset hedge fund Three Arrows Capital (3AC), LSDs used as levered collateral in other DeFi arrangements can result in liquidations and contagion if the redemption value diverges from its 1:1, or more in the case of a value accrual token, ratio. In some cases, DeFi protocols reportedly have taken emergency action, using elevated administration rights to manage potential contagion risks. It is important to note that many liquid staking providers are CEXs and therefore a user is still exposed to various counterparty and other risks when depositing assets with a provider.

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For example, in June 2022, Lido's stETH deviated from the price of ETH due to a liquidity crisis in crypto-asset markets that led 3 Arrows Capital (3AC) reportedly to withdraw 80,000 stETH from DeFi protocols and convert back nearly 39,000 stETH at around 5% discount from ETH.

https://defillama.com/tokenUsage?token=steth.

Name	Category	Amount ÷
Hallic	Category	Amount
1 MakerDAO	CDP	\$2.02b
2 AAVE V2	Lending	\$1.71b
3 AAVE V3	Lending	\$749.47п
4 Curve DEX	Dexes	\$537.57m

Document 26-3

Source: DeFi Llama

Risks Associated with Other Emerging Derivative Protocols

Several additional derivative protocols have gained popularity since the 2022 Report, presenting significant risks to retail investors to whom the protocols are marketed.

Perpetual Swaps:

A perpetual swap contract allows an investor to gain synthetic levered exposure to a reference asset, such as bitcoin or ether, without expiry of the contract. Perpetual swap contracts have become popular with some crypto-asset investors, as they seek high degrees of leverage and adequate liquidity through decentralized exchanges. A primary concern with these swap contracts is counterparty risk; decentralized platforms aim to obviate this risk by using automated market makers.

Automated market makers create liquidity pools of popular crypto-assets that allow users to purchase long or short perpetual swaps by connecting a crypto wallet. Decentralized exchanges offer a variety of crypto perpetual swaps, or futures, assuming adequate liquidity pools can be established. In addition, decentralized exchanges offer different levels of leverage, sometimes in excess of 30 times margin. Decentralized exchanges may rely on oracles to generate pricing or use an order book that allows buyers and sellers to generate price discovery.¹⁴⁸ Trading in an order book may require users to pay or receive a funding rate to incentivize participation on each side of the market (i.e., long and short). Investors in perpetual swaps face significant risks, including:

Complexity of the transaction and exchanges, given the differences in exchanges offering such contracts, and the varied terminology used in marketing such arrangements. For example, perpetual swaps or futures can be liquidated much more quickly than many futures terms given their heightened leverage and the volatility of the underlying reference asset.

148 See DYDX TRADING, DECENTRALIZED, https://dydx.exchange/?.

- Leverage on swap contracts that may prohibit users from holding a contract for a
 period of more than a few minutes¹⁴⁹ without the possibility of full loss depending
 on the volatility of the reference asset.
- Deviation of contract pricing from the reference asset's spot market depending on the accuracy of the oracle or depth of the order book.
- Fee transparency is difficult to ascertain given the diversity of exchange structures;
- Significant fees associated with maintaining a position or associated with the funding rate, depending on the depth of the order book.
- Significant collateral commitment, particularly as leverage increases.

Synthetic Crypto-assets:

Decentralized exchanges offer synthetic crypto-assets or fiat currencies to users via derivative tokens. These synthetic assets may be used for a variety of purposes, including trading with leverage, for deposit into a pool to earn yield, or to collateralize options. Investors in synthetic crypto-assets or fiat currencies face significant risks, including:

- Deviation of pricing from the reference asset spot market depending on supply and demand of the synthetic instrument.
- Counterparty risk to the issuer of the synthetic crypto-asset.
- Platforms are designed to allow the creation of synthetic assets that combine derivative positions.
- Procyclicality of derivative instruments referencing the underlying performance of derivative instruments.

Options on Crypto-assets:

Certain protocols use AMMs to offer options in crypto-assets, such as ETH or wBTC, to users. Users are offered a variety of puts and calls to buy or sell at different strike prices and expiration dates. Liquidity is maintained in the pool by liquidity providers who deposit crypto-assets to a market-maker vault; these liquidity providers earn fees when options are traded.

Investors in options on crypto-assets face significant risks, including:

- Complexity in crypto-asset option markets, including the historically strong variance between spot and futures prices.¹⁵⁰
- Reliance on oracles to determine pricing at expiry.
- Liquidity providers may be subject to withdrawal risk in which they must wait for their funds until adequate liquidity is achieved in a specific pool.
- Unexpected or unanticipated interactions between traders and liquidity providers.
 For example, a sustained win rate for traders might result in losses for liquidity providers.

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¹⁴⁹ Id.

Maik Schmeling et al., *Crypto carry*, (BIS Working Paper No. 1087, Apr. 2023), https://www.bis.org/publ/worki087.pdf.

Risks Associated with Oracles

Document 26-3

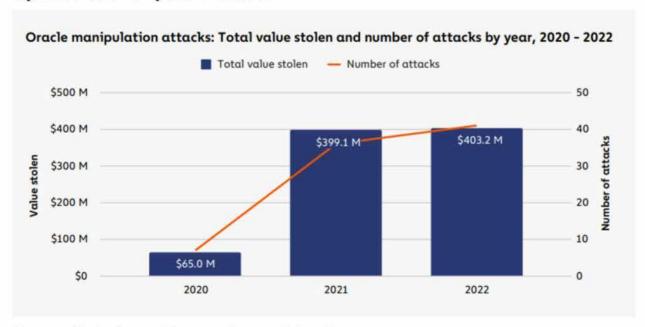
When a protocol relies on an oracle for data, such as pricing data, there is significant risk if the data is inaccurate - whether due to manipulation, deprecation, or other reasons.

Risk of Manipulation

DeFi protocols often use pricing oracles to provide information to trigger margin calls, liquidations or to settle positions. These pricing oracles can be centralized or they can claim to be decentralized. A centralized oracle is controlled by a single entity and can be the sole source of information for the DeFi protocol. Centralized oracles have a single point of failure which can mean these protocols are vulnerable to corruption and attack.

An asserted decentralized oracle typically sources information from multiple nodes across the oracle network to confirm the underlying source data. The source data can be market data from one data source, such as a centralized crypto-asset trading platform, or data from multiple centralized crypto-asset exchanges, e.g., for the market price of a crypto-asset. As is the case for centralized derivative protocols, there is potential for decentralized oracle data to be manipulated by bad actors. The effect of oracle price manipulation is comparable to benchmark manipulation and can result in harm to users of the protocol. In addition, the decentralized oracle is established by code, and subject to the same issues and risks as other code used in DeFi protocols.

One blockchain analytics firm estimates that DeFi protocols lost \$386.2 million in 41 separate oracle manipulation attacks. 151



Source: Chainalysis - The 2023 Crypto Crime Report.

CHAINALYSIS, supra note 21.

Typical Oracle Attack

A typical oracle attack is based on the following steps and involves the use of a flash loan:

- Preparation of funds the attacker borrows a large number of crypto-assets via lending protocols.
- 2. **Raising the price of target assets** the attacker manipulates the price of target assets (i.e., by exchanging many tokens back and forth between different liquidity pools). The oracle(s) relied upon by a DeFi protocol pass the manipulated price data to the DeFi protocol.
- 3. **Profiting** the attacker exchanges the target asset for crypto-assets borrowed from the lending protocols. As the attacker inflates the price of the target asset, it can exchange the target asset for a larger amount of other assets.
- Loan repayment the attacker restores the assets in the liquidity pool to their initial state to avoid losses caused by price slippage and repays crypto-assets borrowed from lending protocols.

An oracle attack reportedly occurred on the bZx protocol when an attacker used a flash loan to inflate the value of a stablecoin (sUSD) on a decentralized exchange. The stablecoin was deposited into bZx as collateral at an inflated price, as bZx utilized pricing oracles from the decentralized exchange for the exchange rate of sUSD/ETH. This allowed the attacker to open an undercollateralized position utilizing the inflated value of the stablecoin as collateral and close out the position to withdraw more ETH than they otherwise would have been able to. 152

Mispricing Risks

There is a risk of price divergence when the pricing data provided by an oracle diverge from the market price of the underlying asset. For example, price divergence could occur when there are market price dislocations on spot exchanges that feed into oracles or if the protocol does not update the pricing of its products in a sufficiently timely manner. High levels of volatility may exacerbate this risk as it may be inefficient for DeFi protocols to fetch pricing data from oracles on a real time basis due to transaction costs (i.e., gas costs) incurred ¹⁵³ and block validation times ¹⁵⁴. In contrast, in traditional financial markets data feeds are normally provided on a near real-time basis.

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The bZx attacks explained, PALKEO (Feb. 18, 2020), https://www.palkeo.com/en/projets/ethereum/bzx.html.

Oracles (or their node operators) may charge fees to provide data. *See, e.g.,* https://ethereum.stackexchange.com/questions/87473/is-chainlinks-price-reference-data-free-to-consume.

For example, the protocol offered by Synthetix updates the smart contract pricing at fixed intervals (currently 3 minutes) based on the pricing oracle Chainlink, but only if any prices have moved above a particular amount.

Discrepancies between the oracle price or the price of the relevant crypto-asset and the unverifiable spot price of underlying assets, may result in a product not performing to the expectations of the user. There is also a risk that front-running attacks can be carried out by a user that pays a higher transaction fee so that their transaction is executed prior to the oracle price update.

Risks Associated with the use of Automated Liquidation Mechanisms

As noted above, many DeFi protocols, including lending and borrowing protocols and those that provide direct derivatives exposures, rely on over-collateralization and automated liquidations to manage default risk on crypto-assets issued. The effectiveness of the liquidation mechanisms used by these protocols is therefore paramount to the fair compensation of counterparties in the event of default.

Certain characteristics of the DeFi ecosystem can hamper the effectiveness of these mechanisms. For one, most smart contracts cannot liquidate collateral without an external party instigating the transaction. Protocols must either operate bots (automated programs) or incentivize market participants to purchase the collateral from them or otherwise instigate the liquidation process. These bots can be deployed to identify and profit from arbitrage opportunities if they identify deviations between the price quoted by the smart contract and the market price. 155 These mechanisms must be robust to a variety of market conditions. Any discount offered to market participants to incentivize liquidation must exceed any potential price depreciation of the collateral asset. This can be difficult as, in times of volatility, rising gas prices and elevated transaction volume can increase congestion on the network, meaning the prices at which the discount is calculated can be stale. Additionally, network congestion can result in gas prices exceeding the default tolerance that liquidation bots are configured to use, meaning that the transactions sent by the bots are not committed to the network. Some market participants and protocol operators have expressed concerns that a large enough collateral liquidation could prevent the entire underlying blockchain from processing transactions for some time. 156

¹⁵⁵ See 2022 Report, supra note 5, at 15.

¹⁵⁶ ALEX MELIKHOV & PETER SERGEEV, EQUILIBRIUM WHITE PAPER 3 (2022), https://equilibrium.io/docs/zh/Equilibrium WP.pdf.

ANNEX F - MAPPING OF IOSCO PRINCIPLES TO DEFI **ACTIVITIES**

Introduction

The 2022 Report detailed the operation of the DeFi ecosystem, discussing the technology components used, the various DeFi protocols for participants to engage in crypto-asset activities, the products and services provided in connection with such protocols, and the various participants in the DeFi ecosystem. The purpose of the mapping in this report is to examine and identify how typical DeFi products, services, arrangements, and activities implicate IOSCO Standards. 157

This mapping is intended to identify how the IOSCO Principles should apply with respect to DeFi products, services, arrangements, and activities, based on a current understanding of the facts and circumstances, including the economic realities of activities in the DeFi ecosystem, first discussed in the 2022 Report.

In those jurisdictions where many DeFi participants are acting in non-compliance with existing laws, regulators can use this mapping to identify the activities and participants that already fall within the scope of their regulatory remit and to help assess how to apply their existing regulatory regime. In jurisdictions where existing securities and other relevant laws may not apply, this mapping can assist regulators as they consider ways to address any potential gaps in their regulatory regime. In both instances, the IOSCO Principles provide a sound basis for how to approach regulation of such activities and participants and avoid regulatory arbitrage between traditional financial activities and participants on the one hand, and DeFi activities and participants on the other. The mapping is not intended to accept existing arrangements and activities as static, without any ability or necessity for change. In fact, it is more likely that to comply with existing or new laws in jurisdictions, DeFi activities and participants may need to alter their operations. In addition, as most DeFi protocols operate cross-border it will be important for jurisdictions to cooperate as they assess the operation of the activities and participants in the DeFi ecosystem to avoid conflicting analyses and determinations regarding the application of IOSCO Principles.

A. Principles relating to the Regulator

- The responsibilities of the Regulator should be clear and objectively stated. 1.
- The Regulator should be operationally independent and accountable in the 2. exercise of its functions and powers.

157 For all references to the IOSCO Principles in this report, see OICV-IOSCO, THE OBJECTIVES AND PRINCIPLES OF SECURITIES REGULATION (May 2017),

https://www.iosco.org/library/pubdocs/pdf/IOSCOPD561.pdf. For further background on the IOSCO Principles, see OICV-IOSCO, METHODOLOGY FOR ASSESSING IMPLEMENTATION OF THE IOSCO OBJECTIVES AND PRINCIPLES OF SECURITIES REGULATION (May 2017),

https://www.iosco.org/library/pubdocs/pdf/IOSCOPD562.pdf.

- 3. The Regulator should have adequate powers, proper resources and the capacity to perform its functions and exercise its powers.
- The Regulator should adopt clear and consistent regulatory processes.
- 5. The staff of the Regulator should observe the highest professional standards, including appropriate standards of confidentiality.
- 6. The Regulator should have or contribute to a process to identify, monitor, mitigate and manage systemic risk, appropriate to its mandate.
- 7. The Regulator should have or contribute to a process to review the perimeter of regulation regularly.
- 8. The Regulator should seek to ensure that conflicts of interest and misalignment of incentives are avoided, eliminated, disclosed or otherwise managed.

All of these IOSCO Principles relating to the regulator should apply with respect to DeFi activities and participants. A key consideration of the Principles relating to the regulator with respect to DeFi is whether the regulator has the appropriate resources – including knowledge, data and tools – to evaluate DeFi activities and participants. In addition, a significant challenge for a regulator in applying IOSCO Principles to DeFi is the limited availability and interpretability of verifiable data relating to many DeFi activities, and the resulting lack of transparency into those activities. Lack of transparency exists, in part, because information off-chain can be difficult to obtain and information on-chain can be difficult to interpret. For those activities that involve financial instruments, including securities, application of the regulator's existing regulatory regime will help address these transparency issues, as application of requirements will typically enhance recordkeeping and reporting. To the extent a jurisdiction may determine that the existing regulatory regime does not apply, the regulator could consider other ways to address data gaps.

B. Principles for Self-Regulation

9. Where the regulatory system makes use of Self-Regulatory Organizations (SROs) that exercise some direct oversight responsibility for their respective areas of competence, such SROs should be subject to the oversight of the Regulator and should observe standards of fairness and confidentiality when exercising powers and delegated responsibilities.

If there is any entity that operates or, in the future will operate, as a SRO for participants in the DeFi ecosystem, then such entity (whether or not incorporated) should be subject to the IOSCO SRO principle.

This Principle covers regulatory systems that make use of SROs that exercise some direct oversight responsibility for their respective area of competence. DeFi activities and participants, to the extent that they involve financial instruments, including securities, may already, depending on the jurisdiction, be subject to a jurisdiction's regulatory framework and perimeter, even if they are not currently operating in a manner compliant with the jurisdiction's regulatory framework.

The following are non-exclusive examples of types of DeFi activities that may be within the scope of activity covered by an SRO in certain jurisdictions, either currently or in the future, and to the extent not, these are the activities that could be the focus of addressing any gaps:

- Aggregators and Decentralized Exchanges (DEXs) involving crypto-assets that are financial instruments, including securities. These activities may be exchange, broker, dealer or adviser activity.
- Borrowing and lending activities involving crypto-assets that are financial instruments, including securities. These activities may be broker or dealer activity.
- · Derivatives activities.

C. Principles for the Enforcement of Securities Regulation

- 10. The Regulator should have comprehensive inspection, investigation and surveillance powers.
- 11. The Regulator should have comprehensive enforcement powers.
- 12. The regulatory system should ensure an effective and credible use of inspection, investigation, surveillance and enforcement powers and implementation of an effective compliance program.

Regulators should have comprehensive inspection, investigation, surveillance and enforcement powers over DeFi activities subject to securities laws. The above Principles are to be interpreted broadly to ensure regulators have a variety of measures to detect, deter, enforce, sanction, redress and correct violations of securities laws.

The following are non-exclusive examples of types of DeFi activities that could involve securities activities subject to regulation in certain jurisdictions, or are similar to such activities in others, either currently or in the future:

- Aggregators, DEXs and Automated market makers (AMMs);
- Trading/Lending/Borrowing/Derivative products and activities;
- The offer and sale of interests in DeFi products and services, including the offer and sale of tokens or other crypto-assets in exchange for the deposit of cryptoassets or borrowing of crypto-assets from any product;
- · The offer and sale of governance tokens;
- Collective investment schemes, hedge funds and other private investment vehicles and investment pools;
- Providing investment advice about crypto-assets or crypto-asset trading activities, whether directly or indirectly;
- The activities of investors, collective investment schemes (retail/non-retail), hedge funds or other private investment vehicles, and others, in DeFi products, including in trading directly or through aggregators, DEXs, lending and borrowing activities.

D. Principles for Cooperation in Regulation

- 13. The Regulator should have authority to share both public and non-public information with domestic and foreign counterparts.
- 14. Regulators should establish information sharing mechanisms that set out when and how they will share both public and non-public information with their domestic and foreign counterparts.
- 15. The regulatory system should allow for assistance to be provided to foreign Regulators who need to make inquiries in the discharge of their functions and exercise of their powers.

As most DeFi activities occur cross-border, there is a need for regulators to cooperate as they evaluate the operation of such activities and participants in the DeFi ecosystem. The Principles for cooperation can serve as the basis for approaches to international cooperation and information sharing among regulators with respect to DeFi activities. Cooperation will allow regulators to minimize the likelihood that compliance programs, investigations and enforcement activities will be impeded by jurisdictional boundaries. Regulators should consider what cooperation tools are available for cross-border cooperation and information sharing.

E. Principles for Issuers

- 16. There should be full, accurate and timely disclosure of financial results, risk and other information which is material to investors' decisions.
- 17. Holders of securities in a company should be treated in a fair and equitable manner.
- 18. Accounting standards used by issuers to prepare financial statements should be of a high and internationally acceptable quality.

The Principles for issuers concern the information that issuers should disclose to investors when they invest in securities and on an ongoing basis. Full, timely and accurate disclosure of financial and non-financial information for DeFi projects would provide investors with information about the issuer, its management and ownership, the risks of investing in a particular security backed by a specific issuer and financial results or other information specific to the project.

Potential Issuers of Financial instruments, Including Securities: The following are non-exclusive examples of types of DeFi products, services, arrangements, and activities that could involve the issuance of financial instruments, including securities, in certain jurisdictions, or are similar to such activities in others, either currently or in the future:

- Aggregators and DEXs, offering and selling their own crypto-assets, including governance tokens, LP tokens or other crypto-assets;
- Lending/borrowing products or services that offer and sell interests in their
 pools in exchange for crypto-assets. In these cases, market participants "deposit"
 crypto-assets into pools in exchange for an interest in the pool. These pool
 interests are represented by other crypto-assets or tokens that represent the
 depositor's pro rata value of the lending pool. The holder of the pool interest
 represented by the token can obtain value from it by trading it in secondary

- markets, borrowing against it, or by presenting it to the pool for redemption of the crypto-asset deposited and all accrued *pro rata* income.
- Lending/borrowing products or services that offer and sell other crypto-assets, such as governance tokens, that may give the holder particular rights, whether to vote on aspects of the lending/borrowing product or service, or other economic interests in the lending/borrowing product or service.
- An AMM or other liquidity pool that offers and sells interests in the pool of crypto-assets that is the AMM. As with the borrowing and lending product tokens that are issued in exchange for crypto-assets deposited in the pools, AMM tokens are also redeemable by the holder for the crypto-asset plus the pro rata income from the pool.
- A developer, founder or promotor of DeFi protocols also may directly offer and sell crypto-assets, including in the form of governance tokens, or other cryptoassets. These offers and sales may occur at the initial funding of the protocols or may occur on an ongoing basis with sales of crypto-assets from the "treasury" of these protocols.
- Aggregators and DEXs also may be involved in offering and selling crypto-assets
 or tokens of other issuers, thereby participating in distributions of financial
 instruments, including securities. This may occur through the aggregator or
 DEX's operations or offerings through which creators or operators of DeFi
 protocols may distribute governance tokens or other crypto-assets, including
 crypto-assets that are placed in "treasury" for distribution.
- The issuance of derivatives, including derivatives/synthetics on traditional financial instruments, as well as the issuance by a cross-chain bridge, wrapping of a token, or in connection with liquid staking.

F. Principles for Auditors, Credit Rating Agencies, and Other Information Service Providers

- Auditors should be subject to adequate levels of oversight.
- 20. Auditors should be independent of the issuing entity that they audit.
- 21. Audit standards should be of a high and internationally acceptable quality.
- 22. Credit rating agencies should be subject to adequate levels of oversight. The regulatory system should ensure that credit rating agencies whose ratings are used for regulatory purposes are subject to registration and ongoing supervision.
- Other entities that offer investors analytical or evaluative services should be subject to oversight and regulation appropriate to the impact their activities have on the market or the degree to which the regulatory system relies on them.

DeFi activities and participants can involve auditors (whether due to laws and rules applicable to issuers or other participants providing audited financial statements or

financial information or other types of auditor involvement), credit rating agencies (whether or not identified as such), and other information service providers (including index and pricing information providers).

The following are non-exclusive examples of types of DeFi activities to which the IOSCO Principles could apply, either currently or in the future:

- Any DeFi project providing audited financial information, including without limitation audited financial statements;
- Any DeFi project that provides any type of credit score may be viewed as a credit rating agency subject to principle 22. If a DeFi project posts or provides the credit ratings of an independent credit rating agency, then the principle applies to the independent credit rating agency.
- Some DeFi projects may offer analysis or evaluative services on their user interface or promote the result(s) of such services for a variety of reasons, including increasing investor engagement in the project or increasing investment in the protocol.
- Many DeFi projects rely on "oracles" to provide pricing information necessary to the operation of the projects. These oracles would likely be considered information service providers and subject to the IOSCO principle 23.¹⁵⁸ These oracles provide off-chain pricing information to smart contracts on an ongoing basis.

G. Principles for Collective Investment Schemes

- 24. The regulatory system should set standards for the eligibility, governance, organization and operational conduct of those who wish to market or operate a collective investment scheme.
- 25. The regulatory system should provide for rules governing the legal form and structure of collective investment schemes and the segregation and protection of client assets.
- 26. Regulation should require disclosure, as set forth under the Principles for issuers, which is necessary to evaluate the suitability of a collective investment scheme for a particular investor and the value of the investor's interest in the scheme.
- 27. Regulation should ensure that there is a proper and disclosed basis for asset valuation and the pricing and the redemption of units in a collective investment scheme.
- 28. Regulation should ensure that hedge funds and/or hedge funds managers/advisers are subject to appropriate oversight.

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It is likely these oracles are also subject to IOSCO principles for financial benchmarks. See OICV-IOSCO, PRINCIPLES FOR FINANCIAL BENCHMARKS (July 2013), https://www.iosco.org/library/pubdocs/pdf/IOSCOPD415.pdf.

Potential Collective Investment Schemes: DeFi products, services, arrangements, and activities may fall within the scope of collective investment schemes (retail/non-retail), hedge funds and other private investment vehicles. Further, DeFi activities and participants that involve operation, marketing, management and advising with respect to these funds may be subject to laws that apply to such activities in many jurisdictions. The following are non-exclusive examples of types of DeFi activities that could involve collective investment schemes (retail/non-retail), hedge funds or other private investment vehicles, and those who operate, market, manage and advise with respect to such funds in certain jurisdictions, or are similar to such activities and participants in others, either currently or in the future:

- Certain aggregators and DEXs may be creating collective investment schemes, hedge funds or other private investment vehicles through the use of AMM arrangements. For example, AMMs typically provide a means for participants to deposit two or more crypto-assets into a smart contract (or liquidity pool) and receive a crypto-asset representing the interest in the pool (and income therefrom). Market participants are then able to use aggregators, DEXs and other service providers to engage in trading activities with the pools. The pools may constitute collective investment schemes. While some of this activity may involve broker or dealer activity, the activity can also include the provision of investment advice. For example, some aggregators provide services that offer investment opportunities to users, such as by obtaining for users the best prices for crypto-assets.
- Lending/borrowing protocols also may involve collective investment schemes, funds and other private investment vehicles. Lending products are pools of crypto-assets deposited by holders in exchange for another token representing the interest in the pool. The lending product then enables other crypto-asset market participants to borrow the crypto-assets in exchange for interest payments. The pooled nature of these lending products may satisfy the definition of collective investment scheme in many jurisdictions. Operators of lending and borrowing protocols also may be viewed, depending on their structures, as investment advisors or sponsors of the collective investment scheme. Initially at least, these operators set the terms of the smart contract arrangements, such as the crypto-asset pairs available to trade, maintain the algorithm to update interest rates, set utilization rates, and address instances of default, including maintenance of a reserve factor.
- Some DeFi products may be structured and operate as hedge funds (or other private funds, or retail/non-retail collective investment schemes), depending on applicable laws. For example, vaults are a mechanism for retail investors to participate in allegedly on-chain hedge funds by deploying capital into single or multi-strategy pools run by smart contracts. The sale of the interests in these pools may be collective investment vehicles as they are offered to the public or, if limited to institutions, may be hedge funds. There are also hedge funds that invest or interact with DeFi activities, products and services and the IOSCO Standards applicable to hedge funds would apply to these hedge funds as well.

H. Principles for Market Intermediaries

- 29. Regulation should provide for minimum entry standards for market intermediaries.
- 30. There should be initial and ongoing capital and other prudential requirements for market intermediaries that reflect the risks that the intermediaries undertake.
- 31. Market intermediaries should be required to establish an internal function that delivers compliance with standards for internal organization and operational conduct, with the aim of protecting the interests of clients and their assets and ensuring proper management of risk, through which management of the intermediary accepts primary responsibility for these matters.
- 32. There should be procedures for dealing with the failure of a market intermediary in order to minimize damage and loss to investors and to contain systemic risk.

Potential Market Intermediaries: There are many DeFi products, services, arrangements, and activities that involve market intermediary participants or activities. This includes exchange, broker, dealer, investment advisor, custodian, clearing agency, transfer agent, and settlement activities, as well as providers of other services including proxy advisory and credit rating services. The following are non-exclusive examples of types of DeFi arrangements that could involve market intermediary activities in certain jurisdictions, or are similar to such activities in others, either currently or in the future:

- Aggregators, DEXs, and other products and services facilitate the exchange of crypto-assets. DEXs can involve order book exchanges, through which DEXs are performing functions typically associated with exchanges. DEXs can also use AMMs, also known as liquidity pools, which provide liquidity for trading markets. AMMs may be seen to be acting as liquidity providers or market makers and thus engaging in buying and selling activities like brokers or dealers.
- Aggregators and DEXs also provide services to users to enable them to trade with multiple AMMs. These activities are akin to broker or dealer activity as well.
- The operation of lending/borrowing products also may involve broker or dealer activity, particularly to the extent that the crypto-assets in the pool are financial instruments, including securities, and the lending product is engaging in lending activities with respect to the crypto-assets that are financial instruments, including securities.
- Each of the AMMs and the lending products may also be engaging in custodial
 activities and acting as counterparties, due to the manner in which the products
 engage in holding customer crypto-assets and trading customer crypto-assets.
 Whether these products and protocols may be acting as custodians of crypto-assets
 may depend, in part, on how the crypto-assets are transferred to the smart contracts.
- Aggregators enable users to seek the most favorable terms across a variety of protocols. Aggregators allow users to source bids and offers, monitor prices and

- execute transactions across multiple protocols and trading platforms from a single interface. These activities likely involve exchange, broker or dealer, or investment advisor activity, depending on the particular facts.
- Yield aggregators are platforms of investment opportunities which, depending on how they are structured, provide the functions of either or both a broker and/or an investment advisor. Some yield aggregators provide a type of asset management which has similar characteristics to automated investment or robo-advisory services.
- Portfolio aggregators' primary functionality gives investors visibility into their current positions and allows them to execute transactions from the aggregator's interface thus providing the functions of a broker or dealer.
- Aggregators specializing in governance protocols may centralize proposals and voting across various DAOs, providing recommendations on how to vote on certain proposals. In this capacity, these types of aggregators may be acting as proxy advisors, if voting is delegated to the protocol. Investors may exchange their voting right(s) for compensation in such arrangements.
- Promotors of DeFi products or services.

I. Principles for Secondary and Other Markets

- 33. The establishment of trading systems including securities exchanges should be subject to regulatory authorization and oversight.
- 34. There should be ongoing regulatory supervision of exchanges and trading systems which should aim to ensure that the integrity of trading is maintained through fair and equitable rules that strike an appropriate balance between the demands of different market participants.
- 35. Regulation should promote transparency of trading.
- 36. Regulation should be designed to detect and deter manipulation and other unfair trading practices.
- 37. Regulation should aim to ensure the proper management of large exposures, default risk and market disruption.

Potential Exchange/Trading Systems: There are DeFi products, services, arrangements, and activities that could involve exchange and trading system activity. This includes exchange and over the counter activities, both in cash (spot) crypto-asset and derivatives markets. The following are non-exclusive examples of types of DeFi activities and participants that could involve exchange and trading system activity subject to regulation in certain jurisdictions, or are similar to such activities in others, either currently or in the future:

 Aggregators and DEXs facilitate the exchange of crypto-assets. DEXs can involve order book exchanges, through which DEXs are performing functions typically associated with exchanges. DEXs can also use AMMs, also known as liquidity pools, that provide liquidity for trading markets.

- Aggregators and DEXs facilitate the trading of crypto-assets. These activities can involve exchange and trading system activities, and also may operate as an issuer or primary distribution mechanism for new tokens or crypto-assets.
- Aggregators and DEXs also may be acting as a market for derivatives. These kinds
 of derivatives trading activities include providing protection or selling protection
 against loss (similar to swaps activities), selling synthetic exposures based on the
 value of other assets (which could include securities), and engaging in perpetual
 futures trading activity.
- Certain lending/borrowing products may act as exchanges or trading systems depending on the particular structure.
- Many protocols enable automated, and often high-speed, trading, often by sophisticated, well-capitalized entities. Algorithmic trading is common in the DeFi space, and bots are employed to run various trading strategies or identify arbitrage opportunities. Oracles and bridges offer connectivity with off-chain data and between DeFi protocols.

J. Principles Relating to Clearing and Settlement

38. Securities settlement systems, central securities depositories, trade repositories and central counterparties should be subject to regulatory and supervisory requirements that are designed to ensure that they are fair, effective and efficient and that they reduce systemic risk.

Certain DeFi activities and participants involve clearing and settlement services and the existing IOSCO Principles for clearance and settlement, securities depositories, trade repositories, and central counterparties could apply.

Potential Clearing and Settlement Entities: The following are non-exclusive examples of types of DeFi activities and participants that could involve clearing and settlement activity subject to regulation in certain jurisdictions, or are similar to such activities in others, either currently or in the future:

- Aggregators and DEXs use DLT to transfer ownership of crypto-assets. Depending on the particular protocol, these crypto-assets may be held within an associated smart contract, nominally on behalf of the user of the protocol. Changes in ownership of crypto-assets within DEX and AMMs likely involve clearing and settlement activity.
- Lending/borrowing protocols, as with DEXs and AMMs, generally rely on associated smart contracts to hold crypto-assets and to effectuate transfers of crypto-assets in associated lending pools. Changes in ownership of crypto-assets lending/borrowing protocols likely involve clearing and settlement activity.
- The activities of certain types of aggregators may also be viewed as clearing and settlement activity. For example, yield aggregators are platforms of investment opportunities which, depending on how they are structured, can provide the functions of either or both a broker and/or an investment advisor while potentially acting as a central counterparty. These activities may also operate as

- settlement systems, depositories, or central counterparties depending on their structure.
- Layer 1 blockchains could themselves be carrying out clearing and settlement activities.

ANNEX G – SUMMARY OF UPDATED SURVEY RESULTS AND OUTREACH

In November 2022, the IOSCO Fintech Task Force (FTF) Decentralized Finance Working Group (DeFi WG) issued a survey to members of the IOSCO FTF to obtain information regarding their current and planned regulatory approaches to DeFi and to inform the ongoing work of the DeFi WG (the *Survey*). The Survey requested information regarding, among other things: the regulatory treatment of DeFi within IOSCO member jurisdictions; DeFi activities, including challenges, risks, and trends, within IOSCO member jurisdictions; and regulatory engagement with DeFi market participants, stakeholders, academics, and researchers.

Regulatory Treatment of DeFi within IOSCO Member Jurisdictions

(a) Overview of the current regulatory treatment of DeFi activities

The Survey asked respondents to provide an overview of the current regulatory treatment of DeFi activities within their jurisdictions. All respondents stated that they do not have separate regulatory frameworks specifically dedicated to DeFi activities at this time. Most of the respondents noted that DeFi activities are currently viewed through the same regulatory frameworks that apply to other traditional financial products, services, and activities subject to financial regulation. Some respondents shared that they are currently reviewing their regulatory approaches in relation to DeFi and exploring ways to incorporate DeFi activities into those other regulatory schemes.

Some respondents noted that efforts are underway in their jurisdictions to create new regulatory frameworks specific to crypto-assets, and that those regulatory frameworks, while not specifically targeting DeFi, might in some instances apply to DeFi activities, e.g., where there are centralized issuers or service providers engaged in activity covered by those other regulatory frameworks. For example, while the EU's Market in Crypto Assets (MiCA) regulation does not specifically apply to DeFi, EU-based respondents indicated that MiCA could apply to DeFi where a regulated service/activity is performed/provided/controlled, directly or indirectly, by an identifiable natural/legal person and/or other undertakings, including when part of such activity or service is performed in a decentralized way.

Respondents acknowledged that it may sometimes be difficult to identify the centralized actors involved in DeFi arrangements, which could present enforcement challenges (discussed further below), but in general, those actors would be subject to these regulatory frameworks, as appropriate. Likewise, a purported lack of centralized authority or use of algorithmic rules/processes would not itself exempt such activities from existing financial regulations. Respondents also emphasized that a lot of DeFi activities appear to be "decentralized" in name only.

(b) Recent developments relating to regulatory treatment of DeFi

In addition to an overview of the current regulatory treatment of DeFi activities, the Survey sought information regarding any updates or developments relating to the regulatory treatment of DeFi activities, including, among other things, proposed legislation or regulations relating to DeFi, licensing or registrations relating to DeFi activities, supervisory or enforcement actions relating to DeFi, or other published guidance relating to DeFi.

(i) New or proposed legislation or regulations relating or specific to DeFi activities

The majority of respondents stated that their jurisdictions did not have any new or proposed legislation or regulations specific to DeFi activities, but reiterated that, in general and depending on the facts and circumstances, existing regulatory frameworks that apply to other traditional financial products, services, and activities could apply to DeFi. In addition, and as noted above, some respondents stated that there are currently efforts to create new regulatory frameworks specific to crypto-assets and crypto-asset service providers (e.g., MiCA in the EU), and that those frameworks could also apply to DeFi activities, where appropriate. For example, if a form of central authority/beneficiary is identified for a DeFi activity, then existing or upcoming rules might apply.

One respondent noted several ongoing initiatives in the EU relating to the development of a regulatory framework for DeFi, including an EU pilot project for the development of a technical solution to collect data on a blockchain, with a view to developing a supervisory approach for DeFi activities, ¹⁵⁹ and the publication of a report by the EU Commission raising considerations for policymakers when thinking of an approach to the regulation of DeFi. ¹⁶⁰

(ii) Licensing or registrations relating to DeFi activities

Respondents generally stated that they do not have specific licensing or registration frameworks relating to DeFi activities, but that, consistent with the approach described above, existing licensing and registration frameworks could apply to certain DeFi activities and that the entities involved in those activities would generally be expected to comply with those existing frameworks. Most respondents stated, however, that there have not been any entities or persons licensed specifically in relation to DeFi activities in their jurisdictions.

(iii) Supervisory or enforcement actions relating to DeFi activities

See https://op.europa.eu/en/publication-detail/-/publication/f689e5b2-4f55-11ed-92ed-01aa75ed71a1/language-en/format-PDF/source-272370364.

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See https://commission.europa.eu/publications/commission-implementing-decision-financing-implementation-pilot-project-embedded-supervision_en ("The result of the pilot project should help to inform and prepare the application of new legislative instruments for decentralised finance.").

Several respondents noted that they have brought public enforcement actions related to DeFi activities under their existing regulatory frameworks, including the U.S. SEC161 and CFTC162, Quebec AMF163, and SC Malaysia164. Another respondent noted that after investigating a DeFi protocol offered in its jurisdiction, the respondent requested that the DeFi protocol stop such activity since it was considered a regulated activity (asset management).

Apart from the above, most respondents stated that there have not been supervisory or enforcement actions focusing on DeFi activities, but a few respondents noted that they are continuing to conduct regulatory activities, including investigations, relating to certain DeFi activities, and that despite the absence of public actions to date, DeFi activities may be subject to existing regulatory frameworks and, where appropriate, regulatory, supervisory or enforcement actions.

Guidance and other assistance for DeFi market participants (iv)

The Survey asked whether respondents have provided DeFi participants with any of the following: guidance related to regulatory requirements and the supervisory approach; warnings or statements over DeFi risks; assistance with licensing or registration; relaxation of, or waivers or exemptions from, certain regulatory requirements; product trial/testing frameworks; or trialing certain technologies with the authority.

A few respondents have published reports or guidance specific to DeFi. One respondent published guidance on DeFi that included a description of DeFi and associated risks and a discussion on the potential applicability of existing regulations to DeFi. 165 Another respondent published a report advising those who would use a Decentralized Autonomous Organization (DAO) or other distributed ledger or blockchain-enabled means for capital raising to take appropriate steps to ensure compliance with applicable securities laws. 166

¹⁶¹ See https://www.sec.gov/news/press-release/2021-145; https://www.sec.gov/news/pressrelease/2018-258.

¹⁶² See https://www.cftc.gov/PressRoom/PressReleases/8478-22; https://www.cftc.gov/PressRoom/PressReleases/8590-22.

¹⁶³ See Décision - Autorité des marchés financiers c. Change Marsan inc. - 2021 OCTMF 43 (soquij.qc.ca);

Décision - Autorité des marchés financiers c. Hope - 2021 QCTMF 48 (soquij.qc.ca); see also Décision - Autorité des marchés financiers c. CreUnite - 2018 QCTMF 8 (soquij.qc.ca) (action taken against an issuer of crypto-assets that were qualified as securities (ICO), distributed (among other means) through a DEX).

¹⁶⁴ See https://www.sc.com.my/resources/media/media-release/sc-takes-enforcement-actions-onbinance-for-illegally-operating-in-malaysia.

¹⁶⁵ See BaFin - Decentralised finance (DeFi) and DAOs.

¹⁶⁶ See https://www.sec.gov/files/litigation/investreport/34-81207.pdf.

Another respondent published a primer explaining smart contract technology and related risks and challenges (as part of a broader body of guidance/information relating to the crypto-asset marketplace). Other respondents noted that although they have not published any guidance specific to aspects of DeFi, they have published guidance relating to crypto-asset activity more generally, including regarding the applicability of their regulatory frameworks to crypto-asset activities and associated risks, which may also apply to DeFi. A number of respondents have also issued public warnings relating to DeFi risks.

In addition to public guidance, a number of respondents noted that they provide informal feedback to written and oral inquiries on matters involving crypto-assets and other financial technology, including those that may involve DeFi, often through an "innovation hub" or the equivalent. These respondents stated that they may engage with entrepreneurs and market participants and assist them, to varying degrees, with questions relating to the applicability of relevant regulatory requirements, including licensing and compliance issues. One respondent also noted that their innovation hub has a specific intake form for inquiries related to DeFi. Several respondents also noted the availability of a "sandbox" or other type of product trial/testing framework in their jurisdiction relating to FinTech more broadly, as well as some development activity relating to DeFi specifically.¹⁷⁰

Finally, one EU-based respondent noted that it engages with market participants as part of its regulatory horizon scanning and has gathered positive feedback regarding the proposed regulation of DeFi. That respondent noted that market participants have expressed an interest for a coordinated international approach to DeFi regulation, in light of the cross-border nature of DeFi activities.

DeFi Activities within IOSCO Member Jurisdictions

(a) DeFi activities

See https://www.moneysense.gov.sg/articles/2022/10/defi_what-you-need-to-know;
https://www.esma.europa.eu/sites/default/files/library/esa_2022_15_joint_esas_warning_on_crypto-assets.pdf

(focusing on crypto-assets generally but mentioning DeFi).

See, e.g., https://www.mas.gov.sg/news/media-releases/2022/first-industry-pilot-for-digital-asset-and-decentralised-finance-goes-live.

See https://www.cftc.gov/PressRoom/PressReleases/7847-18.

See, e.g., https://www.cftc.gov/PressRoom/PressReleases/8336-20; https://asic.gov.au/regulatory-resources/digital-transformation/crypto-assets/; https://www.osc.ca/en/securities-law/instruments-rules-policies/2/21-329/joint-canadian-securities-administratorsinvestment-industry-regulatory-organization-canada-staff; https://www.bancaditalia.it/media/approfondimenti/2022/cripto/Comunicazioni-della-Banca-d-Italia-DLT-cripto.pdf; https://www.sfc.hk/en/News-and-announcements/Policy-statements-and-announcements/Statement-on-regulatory-framework-for-virtual-asset-portfolios-managers; https://apps.sfc.hk/edistributionWeb/gateway/EN/circular/intermediaries/supervision/doc?refNo=18EC77; https://apps.sfc.hk/edistributionWeb/gateway/EN/circular/intermediaries/supervision/doc?refNo=22EC10.

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Exhibit D

The Survey sought information regarding the following DeFi activities or business models observed in IOSCO member jurisdictions: DAOs; stablecoin offerings and use; credit/lending; decentralized exchanges/trading; liquidity or investment-type pooling; automated market marking; mining/staking/pooling; yield farming; insurance/risk management; asset management; and derivative and other synthetic product offerings. Several respondents said that they have observed all of the above activities within their jurisdiction. Most of the respondents said that they have observed some, but not all, of the activities. Some respondents noted that they have not observed any of the aforementioned DeFi activities within their jurisdictions.

Several respondents noted that based on publicly available sources, it appears that DeFi activities may originate from and/or be available in their jurisdictions, but due to the pseudonymous or anonymous nature of blockchains, it is difficult to identify exactly where the activity is and whether it does involve persons in their jurisdictions. It appears that most DeFi activities are open to participation by all persons, including retail investors, across borders.

One respondent noted that they have evaluated the types of persons and entities who participate in DeFi. Based on that respondent's initial observations, including anecdotal information, there are a variety of persons and entities that have a current or future interest in DeFi, including: (i) brokers, dealers and investment advisers; (ii) token issuers, including through the use of smart contracts; (iii) token distributors; (iv) investors (including institutions and venture capital firms); and (v) developers.

One respondent also noted that due to the lack of transparency in the DeFi "market", there is a lack of data about the level of activity of each of the participants at any particular level of DeFi structure, platform, or layer. The ability to evaluate each type of current DeFi product, service, arrangement and activity is therefore limited. However, based on a review of some of the more active DeFi platforms, that respondent has observed that there often are multiple components and a combination of different types of activities. Thus, while that respondent has observed market activity in each of the types of DeFi activities listed in the Survey, such activity may not be engaged in on a standalone basis, but instead may be part of a larger arrangement. For example, a single entity may create a decentralized trading platform, offer what is termed a *governance token*, may create a derivative product, and may use a crypto-asset termed a *stablecoin*. In addition to the lack of transparency in, and the constantly evolving nature of, DeFi structures, in some cases the project's public statements may not fully or accurately describe how the structure actually operates and what is being offered.

Respondents reported observing the following specific types of DeFi activities in their jurisdictions:

<u>Stablecoin offerings and use.</u> A number of respondents said that they are aware of
various types of stablecoins that are in circulation. These stablecoins have varying
characteristics. For example, the stablecoin may be *pegged* or *linked* in some way to
a reference asset, which could be fiat currencies, another crypto-asset, a real asset,

or some combination of assets. Certain stablecoins claim to provide holders a 1:1 direct redemption right against an issuer or reserve of assets while others do not.¹⁷¹ In addition to the use of stablecoins on crypto-asset trading platforms, participants in DeFi structures may use stablecoins as one side of the trade in DeFi transactions. An example would be the use in purchase and sale transactions with AMMs that often allow for stablecoins to be deposited into smart contracts formed as liquidity pools. In these transactions, a combination of stablecoin and some other crypto-asset is deposited through a smart contract into a pool of crypto-assets. Market participants could exchange one token for the other at an exchange rate set by an AMM that typically uses a mathematical formula driven by the relative proportion of the two types of crypto-assets in the pool to determine the exchange rate. Stablecoins also are often used in DeFi structures as collateral deposited into a protocol to support lending and borrowing activities. A number of DeFi structures also issue their own stablecoins.

- <u>Credit/Lending.</u> Respondents have observed arrangements that appear to provide for a lending structure in return for a payment. In these structures, crypto-asset trading platforms, smart contracts, or other market participants create a credit/lending pool. They borrow crypto-assets from clients or other market participants and lend these crypto-assets to other market participants in return for a fee. In a number of the smart contract structures, participants may deposit one type of crypto-asset as collateral and in return, borrow a different crypto-asset from the credit/lending pool. To date, many credit/lending pools (including smart contracts establishing such pools) or lending platforms require, as a condition to participation, that borrowers provide an amount of crypto-asset collateral well in excess of the value of the crypto-assets borrowed.
- <u>Decentralized Exchanges/Trading.</u> Respondents have observed entities that claim to have set up DEXs that purportedly allow for the trading of crypto-assets (referred to as *tokens*) between parties, including tokens that appear to be securities, by both retail and institutional investors. Initially, these DEXs used an order book structure and used the ox protocol as the underlying technology. This enabled any person to list orders, but trading was relatively slow and expensive with gas fees of \$50-100 [per transaction]. Although *order book* DEXes now face competition from the AMMs discussed below, there are innovations, including DEXes that claim to offer high-speed, on-chain order books.
- <u>Liquidity or Investment-type Pooling / Automated Market Making.</u> Respondents
 have observed arrangements involving the creation, through smart contracts, of
 liquidity pools or AMMs. AMMs generally hold two types of crypto-assets and offer
 users the ability to trade one of the crypto-assets in the pool for the other at a price

One respondent referenced the IOSCO stablecoin report, FSB stablecoin reports, and US PWG stablecoin reports for further information.

determined by a constant product function. Users that deposit tokens to the AMM, providing liquidity, often receive another crypto-asset called a *liquidity provider token*, that may entitle the holder to a portion of fees generated through the use of the AMM. AMM protocols can also issue governance token. Traders can transact with the pools directly or through entities that provide *routers* that seek to find the best prices across many AMMs. Many of these smart contracts and structures are copies of or based on code written originally by Uniswap. The liquidity/AMM pools appear to be funded (or *capitalized*) by market participants who seek a return based on the trading profits of the AMM. Sometimes, participants share in fees generated by the AMM/liquidity pool as part of the trading activities, often through liquidity provider tokens, governance tokens and also through secondary trading on crypto-asset trading platforms of the liquidity provider tokens and governance tokens.

- Governance Tokens. Governance tokens are issued, directly or indirectly, by an entity establishing a particular platform or system and are issued in different manners and for different purposes. For example, in some cases governance tokens are issued to persons participating in transactions on an entity's blockchain or through their platform or system or upon presentation of another crypto-asset issued through their platform or system. Others may be issued as additional consideration for equity and other investments in an entity's platform or system, and these governance tokens could be issued as rewards to developers or employees. These tokens may be associated with certain voting rights over certain aspects of a DeFi protocol.
- Yield Farming / Asset Management. Respondents have observed arrangements that involve what is called yield farming. Generally, yield farming involves a series of transactions, involving borrowing and lending crypto-assets, in which the party attempts to start purchases and sales with one asset and through a daisy-chain engages in a series of purchases and sales that result in a profit on each one. For example, this can involve a person holding Token A who lends that to a lending/credit pool to get Token B, and then they deposit Token B in a liquidity pool and get Token C. This transaction enables potential returns at each level. One respondent has observed yield farming arrangements that offer to manage borrowing and lending of client or market participants (including retail investors) crypto-assets using multiple lending pools and multiple platforms. For example, some yield farming entities offer to take crypto-assets from another market participant (including retail investors) in return for a promise of a return, and then will deploy these assets in various DeFi structures and arrangements. The types of uses may involve collateral for crypto-asset loans to the yield farming operator, or as deposits into AMM/liquidity pools.
- Insurance/Risk Management. Respondents have observed arrangements that appear to incorporate DeFi components in order to pay a counterparty for losses related to DeFi transactions. For example, people sell digital tokens that purport to

entitle the holders to receive money if an event occurs. Often, these arrangements require off-chain assessments and inputs, provided by humans and/or oracles. One respondent has seen examples of insurance coverage that would be triggered by oracles that identify: (1) a bug in a smart contract; (2) customer losses due to theft from a crypto-asset trading platform that holds customer crypto-assets; or (3) a flight being delayed or cancelled. One respondent noted that while these protocols state that they are insurance products, it does not appear that the entities offering the insurance are regulated insurance companies.

• Derivative & other Synthetic Product offerings. Respondents have observed DeFi structures that offer digital tokens, through smart contract pools, that are marketed as providing synthetic exposures to other financial instruments, including securities and commodities. For example, some entities claim that they have issued crypto-assets and created systems (through their smart contracts) that will cause the value of the crypto-asset to rise, and fall based on the performance of a referenced asset or index, such as a stock or commodity. It is not clear what type of derivative exposures these asserted synthetic crypto-asset structures provide, such as whether they provide total return exposure (payments based on the performance of the linked asset, including any payments on such assets, such as dividends or payments on common stock) or event exposures (payments based on the occurrence of an event).

Other services or activities. Respondents have also observed the following:

- One respondent has observed DeFi offerings of what appear to be cryptoasset notes (borrowing by an entity and lending by a market participant) that are stated to have a return based on an investment in physical assets. There may be elements of liquidity or creditor pools involved in these structures. These types of crypto-asset structures also could involve other types of investment activities and offer profit sharing based on the performance of the investments.
- One respondent has observed DeFi prediction markets that allow bets to be made through the creation of smart contract pools. These include structures that offer the ability for a user to create an event contract that will pay off based on future events, for example the outcome of an election or economic events. The participants creating that event contract will receive a fee and for purchasers of the crypto-asset representing the contract exposure, they may trade the crypto-asset during the life of the contract and, at the end of the contract, the holder winning the bet will be paid through a smart contract.
- o In addition to the various categories of DeFi activity, several respondents noted that they have observed an increasing role by centralized intermediaries (whether platforms or other types of FinTech companies) facilitating retail consumer access to DeFi protocols, which may indicate increasing interlinkages between DeFi and CeFi.

(b) Challenges in regulating or attempting to regulate DeFi activities

Respondents highlighted a number of challenges in regulating or attempting to regulate DeFi activities, including the following:

- Determining how existing regulatory frameworks should be applied to DeFi activities. Respondents noted that determining whether DeFi activities, including new/emerging types of services, fall within existing regulatory frameworks can be challenging. Respondents attributed these challenges to a few different factors. One respondent noted that the inner workings of DeFi protocols may not be very transparent or easy to understand, such that determining how existing regulations should be applied can be difficult and time consuming. And although some DeFi activities are similar in risks and economic substance as existing regulated activities, they may not fall so neatly within existing legal definitions because of the way they are structured or offered, e.g., using smart contracts. In addition, there may be challenges in determining which transactions and participants and which entities facilitating the transactions are subject to existing regulations. This challenge implicates questions such as which activities of software developers of smart contracts would require registration as a regulated entity, and how decentralization of a project potentially complicates application of regulatory requirements.
- Lack of, or difficulty identifying, central actors to whom existing regulation should apply. Respondents noted that there may be limitations in exercising existing regulatory and enforcement authorities due to the potential absence of, or inability to identify, a central actor who can be held accountable. Given the alleged lack of central authority (i.e., due to distributed governance and/or distributed code development and maintenance), it can be challenging to attribute the provision of DeFi services, and responsibility for compliance, to a responsible party or appropriate stakeholders (e.g., who is responsible for operating or implementing changes to a given protocol). Respondents indicated that this uncertainty on who should be held accountable for DeFi activities is exacerbated given that smart contracts run autonomously to provide services and that governance may be decentralized to varying degrees and involve the use of governance tokens and / or DAOs. Thus, even when an authority determines that a certain DeFi activity falls within its regulatory perimeter, there may not be identifiable persons or legal entities to hold responsible or engage on an ongoing basis in relation to complying with the applicable regulations. One respondent noted that "true DeFi" (if it exists), where all actors would be unknown, might create insurmountable challenges in terms of who should be in charge of ensuring compliance with the regulatory requirements. Business continuity, market integrity, and investor protection concerns might also be exacerbated in such circumstances.
- <u>Lack of information</u>. Related to the above, respondents noted a general lack of transparency and/or reliable information relating to DeFi activities, including a lack of data on the size and scope of DeFi activities in jurisdictions, which leads not only

to difficulties in applying existing regulations (as noted above), but also to other issues, including challenges in supervising such activities and legal and evidentiary challenges when trying to enforce regulations relating to those activities. Respondents noted that the lack of data and transparency on the developers and operators behind the DeFi protocols, i.e., pseudonymity, makes it hard to monitor DeFi activities or gather information and evidence against bad actors. This presents particular challenges for enforcement agencies to prove a case, as it may be difficult to identify stakeholders and to determine the "victims." Related to that, respondents noted that there is a need to build up crypto-asset enforcement capabilities, as record-keeping is done on public blockchains and within smart contracts. Respondents noted that the prevailing pseudonymity in DeFi also makes it very challenging to assess financial risks such as credit, liquidity and leverage risk, as well as the interconnectedness with the traditional financial system and other segments of crypto-asset markets (e.g., CeFi) and also with third-party technology providers.

- Technological complexity of DeFi. Respondents also cited difficulties in understanding the details of DeFi activities, which are technical and complex, noting that available descriptions of DeFi activities (where they exist) are often basic and insufficient for a comprehensive legal assessment. In certain cases the ability to read and understand smart contracts may be required, as many protocols publish only rudimentary information and descriptions. Related to this, respondents noted a lack of resources and know-how to monitor and interpret these activities, and that existing information gathering tools and methods may not be effective in analyzing and monitoring DeFi activity, especially given the pseudonymous nature of the parties and information. Respondents noted that even if data is available on public blockchains, the capabilities to aggregate, read, and analyze such that may be limited. The quick pace of innovation exacerbates this and other challenges, making it difficult for regulators to keep up with DeFi market developments.
- Cross-border issues. Respondents noted that the owners and operators of DeFi products and services may be based in multiple jurisdictions and providing their offerings on a cross-border basis, such that regulatory cooperation is essential. In the absence of such cooperation, it would be difficult to identify the applicable jurisdictions and pursue enforcement actions against responsible parties located abroad. In addition, given the borderless nature of DeFi activities, there may not always be a regulatory nexus to assert jurisdiction over the activities. For instance, where investors in one country access a DeFi platform on a permissionless blockchain and trade digital tokens, the regulators may have challenges enforcing that jurisdiction's regulations against the platform where there is no presence or solicitation in the country. Respondents indicated that the borderless nature of DeFi activities calls for a globally coordinated approach to regulation, including better international cooperation among regulators to strengthen surveillance, develop consistent regulations, and enhance information gathering.

• Consumer protection challenges. Respondents noted that although the code that facilitates DeFi transactions is often open source, most consumers do not take the time or have the expertise to review the code and instead rely on other factors when deciding to trust that transactions will process as expected. There have been numerous instances over the years of the economic incentives and the smart contract security of DeFi protocols being exploited and leading to individual or network-wide economic loss. Accordingly, respondents noted concerns with consumer protection/lack of awareness of risk related to such transactions.

(c) Developments or trends in DeFi market

Respondents were asked to describe developments or trends in the DeFi market that require particular attention from a regulatory and supervisory perspective. Some of the respondents reiterated some of the same aforementioned challenges in regulating or attempting to regulate DeFi as issues that require attention from regulators. In addition, respondents noted the below developments or trends:

- The speculation, embedded leverage, re-hypothecation of collateral, and interconnectedness that exist within the DeFi ecosystem (see, e.g., the Terra's UST/Luna collapse), and the lack of data / transparency on such interconnections;
- The financial stability implications arising from the interconnectedness within the DeFi and crypto-asset ecosystems, as well as between DeFi and TradFi;
- The emergence of centralized intermediaries, which purport to make it easier for retail clients to overcome technical barriers to access DeFi;
- As an example of some of the above, crypto-asset service providers offering attractive, and likely unsustainable, yields for customers that hold crypto-assets with them, where the returns are generated through staking and lending activities (where the service providers participate in unregulated DeFi protocols using customers' crypto-assets);
- Sources of vulnerability specific to DeFi allowing attack vectors, such as governance attacks (manipulation of DeFi protocol design parameters to steal liquidity from deposits in the protocol) or flash loans (transactions allowing users to borrow an asset without providing any upfront collateral);
- Market integrity issues within the DeFi ecosystem, e.g., price oracle manipulation, front-running transactions, and other types of market manipulative activities; and
- Investor protection concerns arising from the increasing number and scale of successful cyber attacks, as well as frauds and scams, involving DeFi protocols.
- (d) Organizational structure to responding to DeFi, development of tools and techniques, and internal expertise related to DeFi

The Survey sought information regarding who within respondents' organizations take the lead in responding to DeFi. Most of the respondents noted that DeFi issues or developments are monitored and assessed in the first instance by a centralized team, whether it be an innovation or FinTech-focused hub, department, unit, or coordination

team, and then referred to other subject matter experts within the organization as appropriate (e.g., for licensing/registration, enforcement, policy development, etc.). The respondents indicated that these teams generally take the lead in responding to DeFi related questions, tracking DeFi market developments and reviewing academic and other source materials. A few respondents stated that they are also in contact with other subject matter experts, such as those in academia and industry, and have attended trainings to develop internal expertise related to DeFi, blockchain analytics, smart contract audits, and other relevant topics.

The survey responses indicate that respondents generally have not developed their own tools or techniques to obtain data on the level of DeFi activities and models. One respondent noted, however, that in addition to its innovation group, the respondent has a dedicated supervisory technology office, which has been conducting research to gain a better understanding of areas like crypto, blockchain, DeFi and web3.o. That group is exploring relevant tools, data sources and information sources that can contribute to the understanding, and engaging external researchers, industry players, and DeFi experts to understand the latest technology, products, trends and risks. They also support knowledge sharing with other departments and organize courses to improve the organization's knowledge in crypto/DeFi area.

(e) Risks to and protection of participants, stakeholders, and markets

The Survey asked respondents to describe risks that they have observed to participants, stakeholders, and markets related to DeFi. A few of the respondents reiterated some of the same challenges discussed above relating to the regulation of DeFi, including issues relating to the applicability and effectiveness of existing laws for DeFi, the anonymous and pseudonymous nature of DeFi activities, a lack of understanding and information relating to DeFi activities, the cross-border nature of DeFi activities, and the extremely fast pace development.

In addition to those challenges, one respondent noted that in general, the risks that arise in traditional securities markets, such as counterparty risk, liquidity risk, and risk of fraud and loss of investor funds, may be implicated in the DeFi market as well. In addition, to the extent that DeFi markets and DeFi market participants, such as intermediaries, fail to comply with applicable laws and regulations, investors and other market participants will generally lack investor protections and other protections, and are subject to greater risk that they may be defrauded, with limited ability for redress, either through private means or government enforcement. In addition, to the extent that DeFi market participants engage in activity that is subject to regulation, the failure to comply with regulatory requirements puts investors and connected markets, including securities markets, at risk.

Respondents also noted other risks for participants, stakeholders, and markets related to DeFi, including:

 Governance risks, including opaque governance structures, concentration of governance tokens, and differences between perceived and actual levels of decentralization

- Lack of prudential measures for certain DeFi services, which could result in investor losses
- Technology and cybersecurity risks and vulnerabilities, including code hacks or key theft, smart contract risk (i.e., the technical level of security of the smart contract code), coding errors within the smart contracts or underlying protocols, and other technical malfunctions
- Inadequate technology and cybersecurity controls and business continuity planning and disaster recovery procedures
- Lack of information on and availability of identifiable responsible operators in case of malfunctions, legal disputes, etc.
- Inadequate disclosures to / lack of awareness by investors of, among other things, how DeFi protocols operate, the underlying risks of a DeFi service, product or activity, and other information, such as the business model, services offered, related parties, and conflicts of interest of DeFi market participants
- Market manipulation and fraud, including code or oracle exploits, rug pulls, protocol back doors, and fraudulent platforms
- Wrapping complexity, where derivatives of tokens are repeatedly created, giving rise to new risks and interconnections between different protocols
- AML risks, including the movement of hacked / stolen funds and the potential lack of legal responsibility for DeFi protocols due to automation
- Reliance on third-party information providers or validators, such as oracles and other outside data sources, could potentially increase risks if those third-party sources produce faulty information—either because it is inaccurate or it has been manipulated

The Survey also asked whether jurisdictions have evaluated opportunities for DeFi arrangements to comply with regulations that aim to ensure protection of market participants, stakeholders, and markets. In general, respondents underscored that their innovation/FinTech hubs welcome discussions with DeFi market actors about product development (and in some cases, have engaged in such discussions), and that the general expectation would be for DeFi activities to comply with existing/planned regulatory frameworks, as appropriate. One respondent noted that given the permissionless nature of most DeFi arrangements, these arrangements would likely encounter difficulties in attempting to comply with certain regulatory requirements. Along those same lines, another respondent stated that a key requirement to ensure compliance with existing laws and regulations would likely be the presence of an accountable natural/legal person identifiable as responsible for the performance of the relevant activities.

One respondent noted that a registered firm in its jurisdiction plans to offer a private fund that will engage in DeFi activities (including staking, lending. and participation in liquidity

pools). Terms and conditions were imposed on the fund manager to address the risks of those activities, and the terms and conditions are publicly available.¹⁷²

(f) Fraud, code exploits and operational risks related to DeFi

The Survey sought information from respondents regarding publicly reported details of fraud, code exploits and operational risks related to DeFi activity in their jurisdictions. Respondents acknowledged public reports of frauds, code exploits, and operational risks involving DeFi, with one respondent noting that public reports indicate that fraud is common in DeFi. Apart from the enforcement actions discussed above, however, most respondents did not identify any specific instances or details of fraud, code exploits, or operational risks relating to DeFi in their jurisdictions. Several respondents explained that for most publicly reported cases, it is unclear which jurisdiction(s) are impacted as DeFi platforms typically operate cross-border/globally.

Regulatory Engagement

The Survey sought information regarding which jurisdictions have been engaging directly with DeFi market participants and stakeholders, as well as academics, researchers, or others aside from DeFi market participants or stakeholders, to evaluate DeFi and monitor market trends. A number of respondents noted that they have, through their innovation or FinTech hubs, engaged with participants involved in the DeFi space in an effort to better understand its structure, scope, and implications. This includes developers, investors and other interested parties, including academics, researchers, and other non-industry members of the public, to varying extents, ranging from engagement at industry events to bilateral meetings.

Respondents gave a number of examples of such engagement, including:

- One respondent held a DeFi workshop with participants from the financial industry, industry associations, business consultants, and law firms. That respondent has also discussed DeFi projects with supervised entities and new projects on a bilateral basis.
- One respondent is carrying out a joint research project with a prominent business school with the goal of measuring interconnections between crypto-assets and traditional financial assets and identifying the primary main transmission channels, the output of which will be contagion risk indicators that will be published in a report.

See https://info.securities-administrators.ca/nrsmobile/nrssearch.aspx (search for "AQN Asset Management LTD" under "Firm," click on the name of the firm underlined in blue, and then scroll under Ontario, Terms & Condition 1. "Click for Details").

See, e.g., Theodore Claypoole, *Ubiquitous and Creative Fraud is Regular Feature of Defi*, NAT'L L.REV., Apr. 27, 2022, available at https://www.natlawreview.com/article/ubiquitous-and-creative-fraud-regular-feature-defi; CHAINALYSIS, *supra* note 21; ELLIPTIC, THE STATE OF CROSS-CHAIN CRIME (Oct. 2022), available at https://www.elliptic.co/resources/state-of-cross-chain-crime-report.

- One respondent noted that its jurisdiction has established a committee, composed
 of lawyers, academics, and other qualified individuals, that is currently conducting
 work in relation to the DeFi space.
- One respondent noted that it has established a FinTech advisory group, composed
 of experts from academia, consulting firms, the central bank, and industry, which
 has been regularly providing input to on FinTech matters, including DeFi, for several
 years.
- Several respondents noted that they have engaged some subject matter experts, such as blockchain analytics companies and law firms, to better understand DeFi and DeFi market trends, including the different types of DeFi and how they are structured.
- Several respondents noted that they also include academic and other source materials in their horizon scanning of developments in the DeFi space.

Respondents noted several challenges that they have encountered in engaging with DeFi market participants. One of the challenges noted by multiple respondents is the decentralized nature of DeFi activities, which appears to result in a lack of legal entities or offices and anonymity. Further, some respondents commented that it could be difficult to fully understand and keep track of the DeFi market due to its complex structures, business models, products, and technologies, which are constantly evolving. Another challenge that was noted (and also discussed above) is the difficulty in finding reliable sources of data, e.g., on Total Value Locked, the number of DeFi protocols, and DeFi volumes, to enable such engagement.

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From:	Baumann, Kevin
Sent:	2023-09-07T16:09:45Z
Subject:	IOSCO DeFi Consultation Report

Received: IOSCOPD744.pdf

Hi All,

We wanted to reach out to let you know that earlier today, IOSCO published a consultation report with recommendations and guidance on DeFi (see press release here and report here). The DeFi consultation report contains nine policy recommendations to address market integrity and investor protection concerns arising from DeFi, covering six areas: (1) Understanding DeFi Arrangements and Structures, (2) Achieving Common Standards of Regulatory Outcomes, (3) Identification and Management of Key Risks, (4) Clear, Accurate and Comprehensive Disclosures, (5) Enforcement of Applicable Laws, and (6) Cross-Border Cooperation. The consultation period for the report runs through October 19, 2023. Following the public consultation period, IOSCO aims to finalize the DeFi recommendations and publish a final report around the end of 2023. As you may be aware, SEC staff led the IOSCO working group that drafted the DeFi consultation report, so please do not hesitate to reach out if you have any questions or would like to discuss.

Thanks,

Kevin Baumann

U.S. Securities and Exchange Commission, Office of International Affairs

2023-09-07T16:09:46Z

Policy Recommendations for Decentralized Finance (DeFi) Consultation Report



THE BOARD OF THE INTERNATIONAL ORGANIZATION OF SECURITIES COMMISSIONS

CR/04/2023 September 202	CR/04/2023	September 2023
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This paper is for public consultation purposes only. It has not been approved for any other purpose by the IOSCO Board or any of its members.

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Foreword

The International Organization of Securities Commissions (IOSCO) has published this Consultation Report with the aim of finalising IOSCO's policy recommendations to address market integrity and investor protection issues in decentralized finance (DeFi) by the end of 2023.1 In line with IOSCO's established approach for securities regulation, the Policy Recommendations for DeFi² are addressed to relevant authorities and look to support jurisdictions seeking to establish compliant markets in the most effective way possible.

Feedback to the Consultation Process

IOSCO welcomes input from all stakeholders as part of this consultation process. Please submit consultation responses to deficonsultation@iosco.org on or before 19 October 2023.

Your comment letter should indicate prominently that it is a Public Comment on IOSCO's Consultation Report on Policy Recommendations for Decentralized Finance (DeFi). All comments received will be made available publicly unless anonymity is specifically requested. Comments will be converted to PDF format and posted on the IOSCO website.

Following the public consultation period, IOSCO aims to finalize the DeFi recommendations and publish a final report around the end of 2023, in accordance with its Crypto-Asset Roadmap of July 2022, and in conjunction with its CDA recommendations.

The DeFi Working Group is led by staff from the United States Securities and Exchange Commission, with members from the staff of the Australian Securities and Investments Commission; Securities Commission of The Bahamas; European Securities and Markets Authority; French Autorité des Marchés Financiers; Hong Kong Securities and Futures Commission; Central Bank of Ireland; Italian Commissione Nazionale per le Società e la Borsa; Financial Services Commission/Financial Supervisory Service of the Republic of Korea; Mauritius Financial Services Commission; Ontario Securities Commission; Quebec Autorité des Marchés Financiers; Monetary Authority of Singapore; Comisión Nacional del Mercado de Valores of Spain; Financial Conduct Authority of the United Kingdom; and the United States Commodity Futures Trading Commission.

The Policy Recommendations in this Consultation Report are focused on decentralized finance (DeFi). IOSCO has separately consulted on issues related to Crypto and Digital Asset Markets more generally. See IOSCO, CONSULTATION REPORT ON POLICY RECOMMENDATIONS FOR CRYPTO AND DIGITAL ASSET MARKETS (May 2023), available at

https://www.iosco.org/library/pubdocs/pdf/IOSCOPD734.pdf.

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EXECUTIVE SUMMARY

DeFi commonly refers to financial products, services, arrangements, and activities that use distributed ledger or blockchain technologies (DLT), including self-executing code referred to as smart contracts. DeFi aims to disintermediate and decentralize legacy ecosystems by eliminating the need for some traditional financial intermediaries and centralized institutions, and by enabling certain direct investment activities.3 DeFi is an important, evolving, and expanding technological innovation. The use of DLT may have the potential to foster financial innovation, increase efficiencies, and improve access to financial products, services, and activities. Proposed use cases for DLT include those relating to primary market issuance, secondary market trading, asset servicing and lifecycle management. While IOSCO encourages responsible innovation that benefits investors and the markets, it has prioritized the need to focus on analyzing and responding to market integrity and investor protection concerns, including those emerging from technological developments in DeFi.

This consultation report proposes nine policy recommendations that IOSCO plans to finalize by the end of 2023 to address market integrity and investor protection concerns arising from DeFi by supporting greater consistency of regulatory frameworks and oversight in member jurisdictions. They are complementary to the Policy Recommendations for Crypto and Digital Assets (CDA) Markets⁴ issued for consultation in May 2023. The two sets of IOSCO recommendations have been developed in accordance with IOSCO's Crypto-Asset Roadmap (Roadmap) published in July 2022.5

The proposed recommendations follow a 'lifecycle' approach in addressing the key risks identified in this report. They are principles-based and outcomes-focused, and aimed at DeFi products, services, arrangements, and activities by applying IOSCO's widely accepted global standards for securities markets regulation.

³ DeFi is a term used in industry and broader discussions. It does not give rise to a unique or different legal arrangement. Currently, there is no generally accepted definition of DeFi, even among industry participants, or what makes a product, service, arrangement, or activity decentralized. While DeFi may seek to eliminate traditional intermediaries, this report notes that certain DeFi arrangements and activities are in fact providing products and services that are equivalent to those provided by traditional market intermediaries and may be treated as market intermediaries in a particular jurisdiction.

IOSCO, POLICY RECOMMENDATIONS FOR CRYPTO AND DIGITAL ASSET MARKETS CONSULTATION REPORT (May 2023), available at https://www.iosco.org/library/pubdocs/pdf/IOSCOPD734.pdf.

See IOSCO, CRYPTO-ASSET ROADMAP FOR 2022-2023 (July 2022), available at https://www.iosco.org/library/pubdocs/pdf/IOSCOPD705.pdf. The FTF was established in March 2022 to develop recommendations to the Board of IOSCO and thereafter to oversee the implementation of IOSCO's regulatory agenda for Fintech and crypto-assets. The FTF is prioritising policy-focused work on crypto-asset markets and activities in its initial 12 to 24 months of operation, while continuing to monitor market developments associated with broader Fintechrelated trends and innovation.

One of IOSCO's goals is to promote greater consistency with respect to the regulation and oversight of crypto-asset activities, given the cross-border nature of the markets, potential for regulatory arbitrage and significant risk of harm to retail investors. IOSCO is also seeking to encourage consistency in the way crypto-asset markets and securities markets are regulated within individual IOSCO jurisdictions, in accordance with the principle of "same activity, same risk, same regulatory outcome."

The proposed recommendations also cover the need for enhanced cooperation among regulators to coordinate and respond to cross-border challenges in enforcement and supervision, and to address regulatory arbitrage concerns, that arise from the cross-border nature of global crypto-asset activities conducted by DeFi participants who often offer their products and services across multiple jurisdictions.

While the proposed recommendations are not directly addressed to market participants, all participants in crypto-asset markets are strongly encouraged to carefully consider the expectations and outcomes articulated through the proposed recommendations and the respective supporting guidance in the conduct of regulated and cross-border activities.

SECTION I. INTRODUCTION TO THIS CONSULTATIVE REPORT

Background

In March 2022, IOSCO published its Decentralized Finance Report (2022 Report), presenting a comprehensive description of the DeFi market as of the date of that report.⁶ Since the 2022 Report, the use of DLT-based applications has increased in scale and scope, with some predicting continued growth in this area in the coming years.7 The 2022 Report noted that it is important for IOSCO members to develop a holistic and comprehensive understanding of the DeFi market, including by identifying and analyzing, among other things, the structural components of the DeFi market, the participants and activities involved, and the products and services offered.

Objectives of the Report

Consistent with the Roadmap, the present report is intended to build on the 2022 Report by providing recommendations and guidance to IOSCO members as they analyze DeFi within their own regulatory frameworks. While recognizing the value of responsible innovation, this report seeks to make clear that market regulators globally should apply a "same activity, same risk, same regulatory outcome" approach to financial markets, regardless of the technology that may be used to deliver financial products and services. In certain jurisdictions, this could mean that existing laws and regulations apply. To facilitate a level-playing field between crypto-asset markets and traditional financial markets and to reduce the risk of regulatory arbitrage, regulatory frameworks for DeFi (existing or new) should seek to achieve regulatory outcomes for investor protection and market integrity that are the same as, or consistent with, those required in traditional financial markets.

Like the 2022 Report, this report emphasizes the need for regulators to understand the DeFi market and its significance, what financial products and services are offered, who is offering those products and services, and to whom regulatory obligations may apply. This report is intended to assist IOSCO members reach that understanding based on their own analyses. As the 2022 Report notes, applicable regulatory frameworks apply to DeFi products, services, arrangements, and activities, notwithstanding characterizations or assertions of decentralization by market participants.

See IOSCO, DECENTRALIZED FINANCE REPORT (Mar. 2022), available at https://www.iosco.org/library/pubdocs/pdf/IOSCOPD699.pdf [hereinafter 2022 Report"]. The 2022 Report contains a detailed explanation of terms used in the 2022 Report and in this report. While each report cites to a number of sources, much of the reports' content represents a compilation of information developed by examining publicly available sources, including websites, white papers, and software code, including smart contract code. Not all of these sources have been cited.

⁷ See BCC Publishing, Global Decentralized Finance (DEFI) Market: Trends, Global Scenario, INNOVATIONS & MARKET (Jan. 2023), available at https://www.bccresearch.com/marketresearch/finance/global-decentralized-finance-market.html.

The report aims to assist global regulators as they identify the "Why, What, Who, and How" in applying IOSCO's Objectives and Principles for Securities Regulation and relevant supporting IOSCO standards, recommendations, and good practices (hereinafter IOSCO Standards) and their own regulatory frameworks to DeFi.

- Why: The report describes the state of the DeFi market and why it presents significant investor and market risks, arising through participants operating in non-compliance with, or outside of, existing investor and market protection regulatory frameworks. Further, since the publication of the 2022 Report, the DeFi market has been prone to increasing exploits and attacks, illicit uses, and other misconduct, resulting in investor and market harm. Moreover, the ability to apply regulatory oversight is challenging, due in part to significant data gaps and technological complexities.
- What: The report describes the common products and services offered in the DeFi
 markets, demonstrating that they do not materially differ from products and services
 offered in traditional financial markets, and that they present the same risks, along with
 additional risks due to the way they are offered.
- Who: The report identifies the types of persons and entities typically involved in the
 development and provision of products and services using DLT-based components and
 offers ways to analyze their involvement to determine potential regulatory touchpoints.
- How: The report provides recommendations and guidance to regulators as they
 examine the application of IOSCO Standards, and existing or new frameworks within
 their own respective jurisdictions, to DeFi products, services, arrangements, and
 activities.

Acknowledging the definitional and interpretive jurisdictional differences that currently exist, IOSCO has developed the proposed recommendations and guidance in this report by developing a functional, economic approach to the analysis, assessment, and mitigation of DeFi risks, rather than seeking to develop a one-size-fits-all prescriptive taxonomy.

Accordingly, IOSCO is taking an outcomes-focused, principles-based approach to risk identification, assessment, and mitigation. This approach has been informed by a mapping of IOSCO Standards to DeFi products, services, arrangements, and activities, and has enabled IOSCO to examine and assess how its existing policy framework aligns with key risks identified in DeFi.

Topics Covered in the Report

Section I (Introduction) introduces the report and describes its high-level objectives.

Section II (State of the DeFi Market) and the accompanying Annexes provide an overview of the state of DeFi, highlighting developments since the 2022 Report. These are intended to inform IOSCO members about the rapidly developing DeFi market through an analysis of recent events, trends and risks, and their implications for investors and the markets in DeFi.

Section III (**High-Level Recommendations and Guidance**) sets out nine policy recommendations that are intended to assist IOSCO members as they apply existing or develop new regulatory frameworks to achieve regulatory outcomes for investor protection and market integrity in DeFi that are the same as, or consistent with, those required in traditional financial markets.

The recommendations emphasize the importance of regulators developing a holistic and comprehensive understanding of DeFi products, services, arrangements, and activities.

This report recognizes that some jurisdictions have existing regulatory frameworks for financial instruments that encompass crypto and digital assets, including DeFi products, services, arrangements, and activities, while other jurisdictions are in the process of developing regulatory frameworks. Each jurisdiction should apply the IOSCO Standards, as they deem appropriate, within their existing or new frameworks.

Section IV (**Questions for Public Consultation**) contains consultation questions for public feedback.

Pre-Consultation Stakeholder Engagement

The proposed recommendations build on the analysis in the March 2022 report which benefited from broad consultation with IOSCO members, academics, and industry. These recommendations are informed by additional outreach with academics, data analytics firms, researchers, and technologists. The FTF also further surveyed its membership to identify key risks faced by regulators and policy measures needed to address the risks. Within its tight timelines, the FTF has also benefited from an initial discussion with its Affiliate Member Consultative Committee (AMCC) on the proposed framework now under consultation.

SECTION II. STATE OF THE DEFI MARKET

The 2022 Report provided a comprehensive overview of the DeFi market, including DeFi products, services, arrangements, and activities, based on information available at the time of its publication. This section (and the accompanying Annexes) provides: (A) an overview of DeFi's common products and services; (B) an update on recent developments and trends; (C) an overview of DeFi exploits, attacks, and illicit uses; (D) an explanation of data gaps and challenges; and (E) a highlight of key risks and considerations.

A. Common Products and Services Using DLT

Persons and entities are currently offering financial products and services that, at least in part, utilize code deployed on public permissionless DLT-based platforms. These products and services include the offering of financial instruments; trading, lending, and borrowing activities involving financial instruments; and the provision of services relating to financial instruments, including exchange, broker, dealer, asset management, custody, clearing, and settlement.

A common misperception is that DeFi products and services are materially different from those found in traditional financial markets. Another common misperception is that DeFi products and services are offered in a fully automated manner using smart contracts, with no human involvement. However, these are not accurate descriptions of how the DeFi market currently operates in practice. Most of the products and services referred to as DeFi mimic those of traditional financial markets. Moreover, the code that implements a DeFi protocol is created, deployed, operated, and maintained by humans; it does not just spontaneously materialize and self-execute. Further, the smart contracts operating on a blockchain typically are only one component of the product or service being offered. For the most part, the products and services referred to as DeFi are offered by persons or entities using traditional components and infrastructures as well as smart contracts and blockchains.⁸

The 2022 Report details various DeFi products and services commonly offered. The DLT-based components associated with these products and services are commonly referred to as DeFi protocols. Typical DeFi protocols include, for example, decentralized exchange protocols, lending/borrowing protocols, and aggregator protocols. The 2022 Report described the way that these protocols typically operate in detail in, and this report provides an abbreviated description below for ease of reference.

Decentralized Exchange (DEX)9

A DEX provider typically provides a service through which one type of crypto-asset can be traded for another. One type of DEX is known as an *order book* DEX where, typically, a central operator maintains a user interface (such as a website or mobile application) and an off-chain order book, with a blockchain primarily serving as a settlement layer. Users

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⁸ See 2022 Report, supra note 5, at 7-8.

⁹ *Id.* at 14-15.

interested in buying or selling a particular crypto-asset at a certain price (makers) communicate their order to the operator, who will in turn publish the order for the use of other participants who may be interested in matching the order (takers). Once there is a match, the taker typically submits the order to the DEX, which sends the matched order for execution and settlement on a blockchain. Unlike in a centralized trading platform context, the operator may never have control of the users' crypto-assets and may serve only as a relayer of information that is necessary for the trade to be executed and settled on the blockchain. The operator typically collects fees from makers and takers for providing this service. In addition, takers typically pay a fee on each trade, a portion of which may go to makers to reward them for providing liquidity.

Another type of DEX uses what are referred to as "automated market makers" (AMMs). Operators of this type of service typically create a "factory" (or set) of smart contracts that can be used by participants to deposit two or more crypto-assets into what is commonly called an AMM or "liquidity pool", which then is available for other participants who want to exchange one of those crypto-assets for another. Depositors to the liquidity pool are generally referred to as "liquidity providers." They typically deposit a number of cryptoasset pairs into the liquidity pool and receive in return a crypto-asset, often referred to as a "liquidity provider token" or "LP token," which represents their pro rata interest in the liquidity pool and is redeemable at any time for their slice of the pool, including accrued trading fees. Typically, participants who trade with a liquidity pool deposit a certain number of crypto-asset A and receive a certain number of crypto-asset B. The exchange rate between A and B is automatically determined according to a preset formula that is based on the ratio of assets held by the pool and is designed to programmatically adjust prices to match market prices. Thus, as the ratio of crypto-asset A to crypto-asset B increases, the liquidity pool price of crypto-asset A decreases and the price of crypto-asset B increases. The degree to which the price of each of the assets moves generally depends on the size of the trade and the pool's liquidity. AMM-based DEXs are substantially dependent on arbitrage traders, typically employing bots, who are programmed to buy or sell crypto-assets for profit until its liquidity pool price converges with the average market price.

Lending/Borrowing10

Providers of lending/borrowing protocols offer a service that allows holders of cryptoassets, often stablecoins," to earn a fixed or variable return on those assets by depositing

¹⁰ Id. at 11-12.

The term "stablecoin" commonly refers to a crypto-asset that aims to maintain a stable value relative to a specified asset, or a pool or basket of assets. See, e.g., FSB, HIGH-LEVEL RECOMMENDATIONS FOR THE REGULATION, SUPERVISION AND OVERSIGHT OF GLOBAL STABLECOIN ARRANGEMENTS 19 (July 2023), available at https://www.fsb.org/wp-content/uploads/P170723-3.pdf. There is no universally agreed definition of stablecoin. The term stablecoin does not denote a distinct legal or regulatory classification. Importantly, the use of the term "stablecoin" in this report is not intended to affirm or imply that the asset's value is necessarily stable or that it is a type of currency. Rather, the term is used here because it is commonly employed by market participants

them in a smart contract (or lending pool) that simultaneously allows other participants to borrow those assets. Depositors typically receive a different crypto-asset, which represents that depositor's pro rata interest in the lending pool and can be redeemed at any time for the amount of the original deposit and accrued interest. In many such services, interest rates can vary and can be set by algorithms, a protocol project team, or through certain governance voting. Loans can be set for any amount, have no duration, and can usually be repaid at any time. Typically, there are no credit checks due to the pseudonymous nature of lending and borrowing protocols. As a result, the lending and borrowing protocol seeks to mitigate risk and protect solvency by implementing risk parameters, such as loan-tovalue ratios, liquidation ratios, liquidation bonuses (or penalties), and reserve factors that vary based on the crypto-asset used as collateral and its risks. Loans are generally required to be over-collateralized.

Aggregator¹²

Providers of aggregator services offer users a means to optimize trading, liquidity, or yieldgenerating opportunities, typically by scanning across protocols for such opportunities and then routing transactions to fulfill desired user parameters. Aggregators allow users, for example, to source trading bids and offers, monitor prices, and transact with a number of protocols from a single interface. Based on the activity being facilitated, aggregators typically include DEX aggregators (that query a range of trading protocols for the purpose of finding the best terms for a trade, including optimal trading price, trading fee and slippage (i.e., changes in deal terms over time)); yield aggregators (that collect user deposits and distribute deposits among protocols, using various strategies to maximize returns); and portfolio aggregators (that monitor a user's portfolio of crypto-assets across blockchains and protocols, and may facilitate the management of or trading in the portfolio). Certain aggregators may also function as an aggregator of aggregators, for example, by scanning various DEX aggregators to identify the best trade terms available. Aggregators may charge a fee for their services, which is added to the fee(s) that are otherwise charged by the protocols with which they interact.

DeFi: The Big Picture (Enterprise Level Viewpoint)

Importantly, as the 2022 Report points out, DeFi protocols (and the smart contracts that they use) typically are only one component of a larger enterprise that carries out the provision of any particular product or service. At the enterprise level viewpoint, persons and entities are engaging in real-world activities, facilitated through the use of various technologies (both on-chain and off-chain) to provide financial products and services. Those persons and entities at the enterprise level are described in the 2022 Report as the

and authorities. See FSB, REGULATION, SUPERVISION AND OVERSIGHT OF "GLOBAL STABLECOIN" Arrangements (Oct. 2020), available at https://www.fsb.org/wp-content/uploads/P131020-3.pdf; see also BIS, THE CRYPTO ECOSYSTEM: KEY ELEMENTS AND RISKS 7 (July 2023), available at https://www.bis.org/publ/othp72.pdf (discussing a number of shortcomings that threaten stablecoins' claims to stability, including that the quality and transparency of reserve assets is often lacking).

²⁰²² Report, supra note 5, at 15-16.

Big Picture. There are a number of primary participants involved at the enterprise level, including those engaging in capital formation, development, and deployment of the components necessary to provide a product or service (such as founders, developers, and foundations); those investing in and using the product or service (such as investors, traders, lenders, and borrowers); those contributing to the ongoing operations of the enterprise (including those with control or sufficient influence over the governance of the enterprise); and those providing infrastructure and services around the product or service (such as oracles, bridges, and miners/validators). Each of the stakeholders in any particular arrangement plays an important role and generally expects to earn a profit through participation. As regulators determine appropriate regulatory touchpoints, they will likely find it useful to examine any particular DeFi arrangement and activity at the enterprise level.

In analyzing DeFi arrangements and activities at the enterprise level, it is important to note that, although persons and entities may be using technologies to conduct their business operations in ways that may differ in certain respects from traditional providers, the products and services they provide do not materially differ from those in traditional Upon close examination, these stakeholders and their roles, and the organizational, technological, and communication mechanisms they use, tend to mimic those that regulators are used to seeing in traditional finance. Therefore, the choices of persons, for example, to organize as a Decentralized Autonomous Organization (DAO) (instead of incorporating); to communicate using internet-based communications platforms (instead of meeting in a physical location or boardroom); to issue crypto-assets (instead of engaging in more traditional forms of fund raising); and to deploy code using computers organized in a peer-to-peer network structure (instead of using a server-client network structure), do not abdicate these persons and entities of their regulatory responsibilities. Regardless of the labels, organizational forms, or technologies used, persons and entities who provide financial products and services are subject to applicable laws.

The Big Picture diagram in ANNEX D (reproduced from the 2022 Report) illustrates a common scenario describing participants and activities sin DeFi. It can serve as a useful guide for regulators as they analyze any particular DeFi product or service at the enterprise level.

B. Growth of DeFi and the Impact of Recent Market Developments on DeFi **Investors and Markets**

See FSB, THE FINANCIAL STABILITY RISKS OF DECENTRALISED FINANCE 1 (Feb. 2023) available at https://www.fsb.org/wp-content/uploads/P160223.pdf [hereinafter "FSB DeFi Report"] ("While the processes to provide services are in many cases novel, DeFi does not differ substantially from TradFi in the functions it performs.").

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Fuelled by the use of stablecoins and an influx of participants through centralized crypto-asset platform on-ramps, the combined Total Value Locked (TVL)¹⁴ of the DeFi ecosystem rose dramatically in 2021 and reached a reported all-time high of approximately \$180 billion in November 2021. However, the occurrence of several significant crypto-asset market events since the publication of the 2022 Report have had an impact on the DeFi ecosystem, which has led to investor losses and market disruptions. These events have revealed vulnerabilities in the broader crypto-asset market and have demonstrated the close but often hidden interconnectedness and interdependencies between and among crypto-asset market participants across the crypto-asset ecosystem, including DeFi arrangements and activities. These events demonstrate that shocks to one part of the crypto-asset market, including from events occurring on centralized crypto-asset platforms and involving stablecoins, as well as shocks to traditional financial markets, likely will have spill-over effects into DeFi, impacting investors and the markets.¹⁵

For example, in 2022, the algorithmic stablecoin¹⁶ Terra USD and its associated LUNA token death spiraled, reportedly resulting in billions of dollars in outflows from DeFi applications associated with Terra, as well as the halting of the Terra blockchain.¹⁷ Also in 2022, the insolvency of FTX, at the time one of the largest centralized crypto-asset platforms globally, reportedly impacted certain DeFi protocols and ecosystems with which FTX was associated or had supported, and also impacted FTX's customers, counterparties and investors, with propagating effects into DeFi protocols with whom those parties had interlinkages.¹⁸ In 2023, a New York State supervisory action ordering Paxos Trust Company to cease minting the stablecoin BUSD reportedly caused certain centralized platforms and DeFi protocols to limit the use of BUSD, with some DeFi protocols taking

Total Value Locked (TVL) is an industry reported measure calculated by multiplying the token market value by the number of tokens deposited into a particular DeFi protocol, blockchain, or ecosystem. While TVL has become a metric for gauging interest in a particular crypto-asset sector and can be looked to in a relative sense, it will change with the market value of the tokens it counts and may "double-count" tokens.

An "algorithmic stablecoin" is a stablecoin that purports to maintain a stable value via protocols that provide for the increase or decrease of the supply of the stablecoin in response to changes in demand. See FSB, HIGH-LEVEL RECOMMENDATIONS FOR THE REGULATION, SUPERVISION AND OVERSIGHT OF GLOBAL STABLECOIN ARRANGEMENTS 17 (July 2023), available at https://www.fsb.org/wp-content/uploads/P170723-3.pdf.

See, e.g., Krisztian Sandor & Ekin Genç, *The Fall of Terra: A Timeline of the Meteoric Rise and Crash of UST and LUNA*, COINDESK (Dec. 22, 2022, 4:07 pm), https://www.coindesk.com/learn/the-fall-of-terra-a-timeline-of-the-meteoric-rise-and-crash-of-ust-and-luna/.

FTX operated (and other centralized crypto-asset platforms operate) as a multifunctional crypto-asset intermediary, which typically provides a vertically integrated suite of products and services within one entity or group of affiliated entities. This operational structure poses significant risks. See CDA Report (describing in detail the significant risks presented by such operational structure). The interconnectedness and interdependencies of centralized crypto-asset platforms with DeFi arrangements and activities, detailed herein and in the 2022 Report, exacerbate risks in DeFi.

See FSB DeFi Report, supra note 12, at 18.

steps to freeze their BUSD markets.¹⁹ Also in 2023, the failure of a US regional bank that offered deposit services to a stablecoin issuer contributed to a temporary de-pegging of the stablecoin because of uncertainty about the issuer's access to its deposits.²⁰ This, in turn, caused disruptions in the DeFi markets. These recent events and their respective impacts in DeFi are explained in greater detail in <u>ANNEX A</u> to this report.

Each of these consequential events had a noticeable impact, not only on particular DeFi arrangements and activities at the time of their occurrence (or shortly thereafter), but on the entire DeFi ecosystem as well. In the first week of May 2022, before the collapse of Terra USD/LUNA, the reported combined TVL of the DeFi ecosystem was approximately \$140 billion. By May 14, 2022, that number fell to approximately \$80 billion. In the wake of FTX's collapse, the reported combined TVL fell further to approximately \$40 billion. Reported combined TVL has thus far somewhat stabilized in 2023, fluctuating with the volatility of its underlying crypto-assets, but has remained at approximately only a third of the level it was in April 2022 before Terra USD/LUNA's collapse.²¹

C. <u>DeFi Exploits</u>, Attacks and Illicit Uses

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The 2022 Report discussed vulnerabilities associated with products and services that rely on DLT-based arrangements and activities. This report explores in greater depth in ANNEX B how cyber exploits and attacks continue to target these vulnerabilities and have resulted in massive losses for investors and other DeFi participants. Vulnerabilities can exist, for example, in blockchain networks, smart contracts and protocols, governance mechanisms, oracles, and cross-chain bridges. At a high level, exploits and attacks in DeFi target access control points. When such points are compromised, an attacker can, for example, commandeer the ability to alter token balances, interfere with governance processes, change the initial parameters and functionality of a smart contract, and circumvent protections such as multi-signature (multi-sig) procedures.

According to one blockchain analytics firm, attacks on DeFi protocols in 2022 accounted for 82.1% of all crypto-assets stolen by hackers — a total of \$3.1\$ billion — up from 73.3% in

See New York regulator says Paxos unable to "safely" issue Binance's stablecoin, REUTERS (Feb. 13, 2023, 10:01 am), https://www.reuters.com/article/fintech-crypto-binance-stablecoin/new-york-regulator-says-paxos-unable-to-safely-issue-binances-stablecoin-idUSL8N34T42O.

See FSB, GLOBAL REGULATORY FRAMEWORK FOR CRYPTO-ASSET ACTIVITIES UMBRELLA PUBLIC NOTE TO ACCOMPANY FINAL FRAMEWORK 5 (July 2023), available at: https://www.fsb.org/2023/07/fsb-global-regulatory-framework-for-crypto-asset-activities/; see also BIS, THE CRYPTO ECOSYSTEM: KEY ELEMENTS AND RISKS 15 (July 2023), available at https://www.bis.org/publ/othp72.pdf ("The fall in crypto prices that started in the second half of 2022 did eventually spill over to the traditional financial system. ... These cases highlight that a business model that is highly exposed to crypto can be problematic for the banking sector.").

See DEFILLAMA, https://defillama.com/. The total market value of crypto-assets reportedly reached nearly \$3 trillion in mid-November 2021, but has declined to approximately one-third that value currently. See, e.g., CoinGecko, Cryptocurrencies Global Charts, available at https://www.coingecko.com/en/global-charts.

2021. Of that \$3.1 billion, 64% was attributable to attacks on cross-chain bridges.²² Another blockchain analytics firm reported that nine of the ten largest attacks occurred against DeFi projects.²³ Reports indicate that hacker groups associated with North Korea are among the most prolific.²⁴ Reportedly, North Korean-linked hackers have stolen \$1.1 billion in cryptoassets through hacks of DeFi protocols.25

Recent reports also assert that DeFi protocols increasingly are used for money laundering and other illicit uses.²⁶ Reports describe the use of DeFi protocols as a means to convert stolen crypto-assets of one type for crypto-assets of another type that is more liquid or less volatile and, eventually, these crypto-assets can be converted into fiat currencies at centralized crypto-asset trading platforms. One blockchain analytics firm estimates that hackers holding stolen crypto-assets send a majority of those funds (57%) to DeFi protocols.²⁷ A recent report by the Financial Action Task Force (FATF) found that cryptoassets pose money laundering, terrorist financing, and proliferation financing risks, including abuse by sanctioned actors.²⁸

D. Data Gaps and Challenges

Despite the existence of publicly available blockchain data and blockchain data analytics providers, regulators (and investors) face significant data gaps and challenges in understanding DeFi. Proponents of DeFi often claim that blockchain ecosystems are

mitigate such risks, in addition to implementing the FATF Standards.").

²² CHAINALYSIS, THE 2023 CRYPTO CRIME REPORT (Feb. 2023), available at https://go.chainalysis.com/2023-crypto-crime-report.html.

TRM, ILLICIT CRYPTO ECOSYSTEM REPORT: A COMPREHENSIVE GUIDE TO ILLICIT FINANCE RISKS IN 23 CRYPTO 32 (June 2023), available at https://www.trmlabs.com/illicit-crypto-ecosystem-report-2023#:~:text=TRM%20Labs%20data%20indicates%20that%20cryptocurrency%20wallets%20that%2 oreceive%20victim,large%20transnational%20organized%20crime%20groups.

See, e.g., FATF, TARGETED UPDATE ON IMPLEMENTATION OF THE FATF STANDARDS ON VIRTUAL ASSETS AND VIRTUAL ASSET SERVICE PROVIDERS 3 (June 2023), available at https://www.fatfgafi.org/en/publications/Fatfrecommendations/targeted-update-virtual-assets-vasps-2023.html ("Recent reports raise serious concerns about the threat posed by the Democratic People Republic of Korea's (DPRK) illicit VA-related activities, including ransomware attacks and sanctions evasion, for financing the proliferation of weapons of mass destruction. This activity has enabled an unprecedented number of recent launches of ballistic missiles (including inter-continental ballistic missiles). This threat is significant given both the scale of the funding (USD 1.2 billion worth of stolen VAs since 2017, including VAs stolen from DeFi arrangements) and the serious consequences of proliferation financing.") (internal citations omitted).

CHAINALYSIS, supra note 21, at 60. 25

²⁶ See id.; U.S. DEPT OF THE TREASURY, ILLICIT FINANCE RISK ASSESSMENT OF DECENTRALIZED FINANCE (Apr. 2023), available at https://home.treasury.gov/system/files/136/DeFi-Risk-Full-Review.pdf.

²⁷ CHAINALYSIS, supra note 21.

²⁸ FATF, supra note 23, at 4 ("[DeFi] ... pose[s] money laundering, terrorist financing and proliferation financing risks, including abuse by sanctioned actors. ... Both jurisdictions and the private sector should strengthen efforts to monitor these risks, share approaches, and identify challenges to

completely transparent, given that smart contract code purportedly is publicly accessible and that activity on a blockchain is publicly observable. However, certain aspects of the DeFi ecosystem remain opaque and the data that is publicly accessible is difficult to access and interpret.

There exist several challenges to the accessibility and interpretability of relevant data, including:29

- Required skills and infrastructure: Accessing, cleaning, and standardizing data for analysis, including operational data sets from DeFi protocols and market data sets from the DeFi market more broadly, requires sophisticated software engineering and data science skills, as well as infrastructure. Interpreting and extracting insights from DeFi data sets also requires specific skills and infrastructure, including both financial marketrelated skills for traditional financial analysis, as well as computer science-related skills to interpret code and develop the necessary data pipeline and analytical infrastructure. Various datasets and analytical tools are also needed. In addition, while industry proponents claim that smart contracts are transparent, in practice the source code for smart contracts implemented on blockchains are in machine-readable (not humanreadable) format, may not conform to public descriptions of the code (either in plain text or in a GitHub or GitLab repository of code), and in some cases may be subject to change by the smart contracts' developers.30 As a consequence, what is written to a blockchain may need to be analyzed to determine whether it actually reflects what it is purported to represent.31 Enhancements to the skills, datasets, and tools necessary to analyze DeFi data could improve a regulator's ability to oversee DeFi arrangements and activities.
- Lack of standardization: The lack of standardization across DeFi datasets and codebases makes it difficult to collect, reconcile, and analyze data across protocols, blockchains and markets.32 Data providers may have materially different methodologies for aggregating data and calculating metrics. In addition to the lack of standardization in data sets, there is a lack of standardization in code used to develop DeFi protocols. For example, while there are open-source standards that describe the basic functionality for certain aspects of a token (e.g., ERC-20 standard) or DeFi service

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²⁹ The Financial Stability Board has also discussed data challenges in a recent report. See FSB, supra note 12.

³⁰ Certain publicly available tools can be used, for example, to compile purported source code from GitHub for comparison to a smart contract's on-chain bytecode; however, use of such tools requires expertise and could require some standardization of data prior to using such a tool.

³¹ For example, the US Securities and Exchange Commission recently filed a case alleging that, among other things, the promotors of a particular DeFi project merely uploaded transaction details to a blockchain, falsely claiming that the transactions had been processed and settled on the blockchain, when in reality they reflected payments made through traditional means off-chain. https://www.sec.gov/litigation/complaints/2023/comp-pr2023-32.pdf.

An example of operational data includes the number of addresses interacting with the protocol. An 32 example of market data includes the volume of token swaps within a liquidity pool.

(e.g., liquidity pair smart contract), developers frequently modify code to provide additional functionality for their DeFi protocol. These modifications require analysts to examine each protocol individually to understand and extract relevant information. Compounding this complexity is the composability of smart contracts, which allows integrations between DeFi protocols or other smart contracts to create new systems or outputs. Composability can result in risks due to the various methods of integration and the reuse of existing software components. Further moves toward standardization across DeFi data sets and codebases could assist regulators in understanding and assessing DeFi arrangements and activities.

Pseudonymity and Off-chain Activity: Another challenge to data analytics is the pseudonymous nature of transactional data on-chain and the opacity of data off-chain. Opacity can be exacerbated by the practice of market participants using multiple pseudonymous addresses to obfuscate their activity. This can lead to challenges in assessing, for example, levels of retail investor participation, concentrations in the market, interconnectedness within DeFi or to the broader financial ecosystem, or risks posed by a given market participant or activity. Improvements to recordkeeping and reporting could alleviate challenges to data analytics.

Such data gaps and challenges are pervasive in the DeFi ecosystem and are explored in greater detail in ANNEX C.

E. Key Risks and Considerations

As the 2022 Report noted, although DeFi has been presented as providing certain benefits, it also presents numerous risks to participants, including to investors and the markets, currently and as it is developing. In some jurisdictions, participants in the DeFi market may be operating in non-compliance with applicable laws and regulations. In others, participants may be operating outside the scope of existing regulatory frameworks. The 2022 Report identified key investor and market protection risks known in DeFi at that time and gave a detailed description of many of those risks, including risks arising from: asymmetry and fraud, market integrity issues, front-running (or similar activities), flash loans, market dependencies, use of leverage, illicit activity, operational and technologybased issues, cybersecurity issues, nascent stage of development, governance mechanisms, and the spill-over of risks to centralized/traditional markets. The risks identified in the 2022 Report continue to exist in DeFi today.

Events and trends observed since the 2022 Report have highlighted risks attendant to DeFi and the crypto-asset markets more broadly, including from market interconnectedness and interdependencies, the use of leverage, unpredictable and opaque governance structures, as well as risks from the structures of DLT-based arrangements themselves. The Financial Stability Board (FSB) recently released a report detailing the financial stability risks of DeFi (hereinafter FSB DeFi Report).33 The FSB DeFi Report describes a panoply of risks, such as maturity operational fragilities, liquidity and mismatches, leverage,

³³ FSB DeFi Report, supra note 12.

interconnectedness, and notes that these risks can be amplified by DeFi's technological features, the high degree of structural interlinkages among participants in DeFi, and from non-compliance with existing regulatory requirements or lack of regulation.³⁴ The FSB DeFi Report notes that, given the nascent and evolving nature of DeFi, severe market integrity issues could lead to potential impacts on financial stability, if the sector grows further and becomes more interconnected with traditional finance and the real economy.³⁵ The FSB DeFi Report specifically cites to the reliance of some DeFi products on continuous investor inflows to remunerate early adopters, a business model recognized as unsustainable.36 A recent Bank for International Settlements (BIS) report concerning key risks of the crypto ecosystem, including DeFi, found that crypto has inherent structural flaws that pose serious risks not only to its own stability and safety, but also to that of the traditional financial system.37

The risk discussion in ANNEX E details some of the investor protection and market integrity risks in the DeFi market, particularly those associated with DeFi governance structures, derivatives and levered strategies, and the use of oracles and cross-chain bridges. More specifically, DeFi governance structures are often opaque, experimental, unpredictable, and/or easy to manipulate. Participation in such structures generally entails engagement with others on a pseudonymous or anonymous basis. This results in a lack of transparency into how governance mechanisms actually operate in practice, obfuscating the identity of controlling persons and masking conflicts and potential collusive behavior. The DeFi market also continues to offer exposure to levered strategies, exposing investors to well-known risks and also those exacerbated by features such as the automated liquidation of positions through smart contracts and hidden interlinkages. Furthermore, DeFi's reliance on connectivity to off-chain data and interoperability through oracles and cross-chain bridges continues to present considerable risks.

³⁴ Id. at 16.

³⁵ Id. at 23.

³⁶ Id.

³⁷ BIS, THE CRYPTO ECOSYSTEM: KEY ELEMENTS AND RISKS 1 (July 2023), available at https://www.bis.org/publ/othp72.pdf ("[W]hile DeFi mostly replicates services offered by the traditional financial system, it does not finance any activity in the real economy but amplifies known risks. As growth is driven mainly by the speculative influx of new users hoping for high returns, crypto and DeFi pose substantial risks to (especially retail) investors.").

SECTION III. RECOMMENDATIONS AND GUIDANCE

The following recommendations have been developed based on information and analysis from the 2022 Report; subsequent events, developments, and analysis; a survey to IOSCO members (the results of which are described in <u>ANNEX G</u>); and public source research and outreach to industry, academic and researchers. The recommendations and guidance describe how regulators can analyze DeFi products, services, arrangements, and activities, and are intended to support those authorities in jurisdictions seeking to apply IOSCO's Standards to DeFi through existing regulatory frameworks, as well as those authorities that are considering new frameworks to address any potential gaps in order to achieve regulatory outcomes that are the same as, or consistent with those that are required in traditional financial markets.

In developing the guidance to the recommendations, a mapping was done of common DeFi products, services, arrangements, and activities across the IOSCO Principles for Securities Regulation, which includes a mapping of certain DeFi products, services, arrangements, and activities to those found in traditional finance. The complete mapping is found in **ANNEX F**. Portions of the mapping have been incorporated into the guidance to illustrate how regulators can apply IOSCO Principles through their own regulatory frameworks.

OVERARCHING RECOMMENDATION ADDRESSED TO ALL REGULATORS

Preamble: Intent of the Recommendations

The exposure of investors across the globe to DeFi has grown in recent years, as have investor losses amid regulatory non-compliance, financial crime, fraud, market manipulation, money laundering, and other illegal crypto-asset market activity. Given the similar economic functions and activities of the DeFi market and traditional financial markets, many existing international policies, standards and jurisdictional regulatory frameworks are applicable to DeFi products, services, arrangements, and activities.

IOSCO is issuing these proposed Policy Recommendations to help IOSCO members apply relevant existing IOSCO Standards through their own regulatory frameworks, as appropriate, to DeFi products, services, arrangements, and activities within their jurisdictions. These Recommendations recognize that some jurisdictions have existing regulatory frameworks that encompass DeFi, while other jurisdictions are in the process of developing regulatory frameworks. In addition, in some jurisdictions, the regulatory framework may allocate responsibility for the regulation and oversight of DeFi to a number of regulators that possess discrete and complementary mandates and objectives, to address investor protection and market integrity risks. Each jurisdiction should implement the Recommendations, as they deem appropriate, within their frameworks considering each

regulator's role within those existing or developing frameworks, and the outcomes achieved through the operation of the frameworks in each jurisdiction.³⁸

These Recommendations should be considered by IOSCO members as they apply existing regulatory frameworks (*Existing Frameworks*), or as they are granted new powers and/or are developing new requirements (together *New Frameworks*), to DeFi and related activities in a manner that achieves outcomes across jurisdictions consistent with IOSCO Standards, including the IOSCO Objectives and Principles for Securities Regulation.

These Recommendations and guidance form part of IOSCO's efforts within the broader context of cooperation and coordination with respect to DeFi among international bodies such as the FSB, FATF and the BIS, and between the Standard Setting Bodies such as IOSCO, the Committee on Payments and Market Infrastructures-IOSCO (CPMI-IOSCO) and the Basel Committee on Banking Supervision (BCBS). This should help facilitate a level playing field between crypto-asset markets and traditional financial markets and help reduce the risk of regulatory arbitrage arising from any differences in how the rules are applied and enforced with respect to DeFi and traditional financial markets.

As discussed herein, DeFi products and arrangements may fall within the definitions of securities or other regulated financial instruments in a jurisdiction's Existing Framework or New Framework. However, in jurisdictions where such products and arrangements do not, regulators are encouraged to analyze the applicability and adequacy of their regulatory frameworks, and the extent to which (1) such products and arrangements behave like substitutes for securities or other regulated financial instruments, and (2) investors have substituted securities or other financial instrument investment activities with DeFi investment activities.³⁹

INTEROPERABILITY WITH IOSCO POLICY RECOMMENDATIONS FOR CRYPTO AND DIGITAL ASSET MARKETS

In May 2023, pursuant to its Roadmap, IOSCO published its Policy Recommendations for Crypto and Digital Asset Markets Consultation Report (CDA Report), containing recommendations aimed at the activities performed by crypto-asset service providers (CASPs).⁴⁰ CASPs are service providers that conduct a wide range of activities relating to

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Given the diversity of operating landscapes across different jurisdictions, the application and/or implementation of the Recommendations can take into account the context of specific legal structures prevailing in each jurisdiction, as well as the respective mandates of individual regulators where relevant. One way for a regulator to accomplish this, through its given mandate and the regulatory frameworks it applies, is to set out clear principles-based expectations for a DeFi participant to meet (which can be supported by regulatory guidance, as appropriate), in order to achieve the same regulatory outcomes articulated in this report.

For such jurisdictions, this report may be read and interpreted to mean that the recommendations apply as though the DeFi products and arrangements are within the definition of securities or other regulated financial instruments, and jurisdictions should look to achieve the outcomes set out in the recommendations, as appropriate and consistent with their respective mandates.

See CDA Report, supra note 17, at 1.

crypto-assets,41 including but not limited to, admission to trading, trading (as agent or principal), operating a market, custody, and other ancillary activities such as services relating to lending/staking of crypto-assets and the promotion and distribution of cryptoassets on behalf of others. These service providers can exist as centralized crypto-asset service providers, which operate under traditional corporate forms, and they can also exist in DeFi, where said activities can be carried outside of traditional corporate forms.

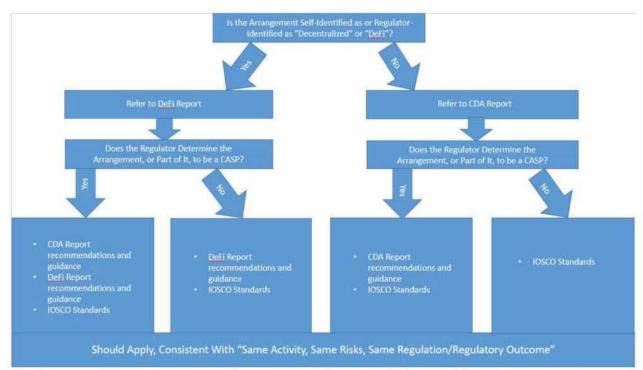
The delineation between centralized and decentralized finance (or CeFi and DeFi) is more a spectrum than a bright line. In the crypto-asset markets, along a spectrum of arrangements, persons and entities typically engage in financial activities that substantially mirror traditional financial activities. They do so using a number of technologies including, to varying degrees, DLT. However, regardless of the organizational form or technologies used, these persons and entities should be treated in line with the guiding principle of "same activity, same risk, same regulatory outcome."

IOSCO recognizes that regulatory touchpoints are readily identifiable where persons and entities are organized in traditional corporate forms. However, as noted, persons and entities who provide DeFi products and services attempt to arrange and distribute their operations outside of traditional corporate forms. Thus, it is possible that, in certain instances, it may be more challenging to identify regulatory touchpoints to which regulatory obligations may be applied. This report is thus intended to foster a deeper understanding of the DeFi market as currently operating to assist regulators with their analysis.

The recommendations and guidance in this report should be applied to a particular arrangement if it identifies itself or is identified by a regulator as decentralized. This report provides a diagnostic (i.e., understanding the facts and circumstances of an activity) and prognostic (i.e., understanding the investor risks and market risks posed by the activity) approach to examining and assessing DeFi arrangements, such that for a particular activity and its risks, regulators can apply the same regulation or aim to achieve the same regulatory outcome.

To the extent a regulator, applying the recommendations in this report, determines that a particular DeFi arrangement, or a part of that arrangement, falls within the scope of the definition of a CASP, the CDA Report recommendations will also apply to the CASP and the provision of related regulated activities. Thus, whatever form or organization the CASP takes, if a person or entity is a CASP in a particular jurisdiction, the recommendations of the CDA Report will also apply to the CASP. The flow chart below illustrates the interoperability of the CDA Report and this DeFi report:

The term "crypto-asset," also sometimes called a "digital asset," refers to an asset that is issued and/or transferred using DLT, including, but not limited to, so-called "virtual currencies," "coins," and "tokens." To the extent digital assets rely on cryptographic protocols, these types of assets are commonly referred to as "crypto-assets."



Markets participants are strongly encouraged to carefully consider the expectations and outcomes articulated through the proposed recommendations and the respective supporting guidance, including, for CASPs, the recommendations and guidance in the CDA Report.

Recommendation 1 – Analyze DeFi Products, Services, Arrangements, and Activities to Assess Regulatory Responses

A regulator should analyze DeFi products, services, arrangements, and activities occurring or located within its jurisdiction with a view to applying its Existing Framework or New Framework, as appropriate, in accordance with the principle of "same activity, same risk, same regulatory outcome." To do so, a regulator should aim to achieve a holistic and comprehensive understanding of such DeFi products, services, arrangements, and activities. A regulator should assess what technological knowledge, data, and tools the regulator needs to understand, and analyze DeFi products, services, arrangements, and activities to inform regulatory responses.

Guidance

Understanding DeFi products, services, arrangements, and activities occurring or located within a jurisdiction is critical to determining the appropriate regulatory response, including, the potential application of IOSCO Standards through applicable regulatory frameworks.

The 2022 Report recognized that a comprehensive understanding of the regulatory implications arising from DeFi requires analyzing the totality of the DeFi ecosystem as it exists currently, its interrelationship with centralized crypto-asset platforms and service

providers and traditional markets and activities as well as anticipating how it may continue to develop in the future. Developing a comprehensive understanding involves identifying and analyzing, among other things, the structural components of DeFi products, services, arrangements, and activities; the roles of each of the participants involved, including their incentives and motivations; how participants engage with the various components and each other; and the roles that centralized crypto-asset platforms and service providers play.

In assessing whether a particular product, service, arrangement or activity falls within a regulator's jurisdictional remit, ideally the regulator should aim to gain a holistic understanding of the particular product, service, arrangement and activity at (i) an enterprise level (i.e., based on the factual and substantive economic reality), (ii) a functional level, and (iii) a technical level.

The regulator should seek to understand the DeFi arrangement at the economic reality level, or the "enterprise level." In so doing, the regulator should seek to understand how each of the participants involved in the particular DeFi arrangement are involved at all stages in the life-cycle of the arrangement. For example, the regulator should seek to ascertain how the particular arrangement was developed and founded, promoted and funded, and how it is operated, used and maintained. The regulator should seek to ascertain how income, revenues and profits are generated, including any fee structures. This includes understanding the life-cycle of any associated tokens. The regulator should also seek to understand the interrelationship of each of the participants with each other, including centralized crypto-asset platforms and traditional markets and activities. The Big Picture diagram (depicted in ANNEX D) and the 2022 Report identify and describe various participants, and their activities, fund flows, and interrelationships. The Big Picture diagram and 2022 Report can serve as guides to a regulator seeking an economic reality or enterprise level view of any particular arrangement in DeFi. Critically, the regulator should seek to ascertain how decisions are made at the enterprise level. In many cases, identifying who exercises control or sufficient influence at the enterprise level will reveal existing or potential regulatory touchpoints.

When examining any particular DeFi arrangement, a regulator could consider a review of publicly available information concerning the DeFi arrangement, including from sources such as websites, white papers, industry reports, and social media. They could also consider engaging with persons involved with or associated with the arrangement, as well as experts, academics, researchers and public advocacy groups, as appropriate. Further, they could consider using available investigatory tools and techniques to gather additional information, including relevant information sharing arrangements with other authorities located within and outside their jurisdiction.

A regulator should also seek to analyze the DeFi arrangement at the functional level. A regulator should seek to understand the activities being conducted by or through the DeFi arrangement and, in particular, what products and/or services are being provided. Many of the financial products and services in DeFi mirror, and in some cases overlap with, more traditional securities and other regulated financial instruments and related products

and services. A potential starting point for this analysis is to map the particular DeFi arrangement to traditional financial products and services. The 2022 Report, which includes comparisons between DeFi activities and traditional financial activities, can serve as a starting point for analysing the common types of DeFi arrangements. The mapping in the guidance under Recommendation 3 below can provide further assistance.

A regulator also could seek to analyze the DeFi arrangement at the technical level, if feasible. Although analysis at the technical level requires the necessary knowledge, data and tools, such analysis is helpful to fully understand and analyze DeFi products, services, arrangements, and activities. This type of analysis requires understanding the relevant technologies in the tech stack associated with the DeFi arrangement.⁴² For example, regulators may seek to understand how the settlement layer blockchain operates, including what type of consensus mechanism the settlement layer uses, the concentration of participants in the consensus mechanism, and to what degree they may impact the functioning of a smart contract or protocol, including through the inclusion or ordering of transactions (in connection with maximal extractable value (MEV) strategies) or by exerting some other control over the DeFi arrangement. The analysis may also include an understanding of how the arrangement's associated smart contracts work, what other technologies and processes the arrangement relies upon (on-chain and off-chain, including bridges and oracles), and what role particular crypto-assets play in the operation of the arrangement. It may also require an understanding of how, technologically, a user interacts with the arrangement, i.e., through various user interfaces, and how those interfaces are controlled and maintained.

Regulators may need to consider whether they have the appropriate resources to evaluate DeFi products, services, arrangements, and activities. Regulators should assess whether there are limitations on their ability to identify appropriate participants that may be subject to regulation. If there are any such limitations, regulators should assess the cause for the limitation - whether regulatory, legal, resource/knowledge-based, or otherwise - and whether and how those can be addressed. If a regulator lacks the capacity to undertake a technical level analysis, the regulator could consider how it might augment its capacity or seek technical assistance.

Further, regulators should seek methods to obtain verifiable data and information about DeFi products, services, arrangements, and activities as they engage in such analysis. This may include the use of blockchain analytical tools and techniques for on-chain data and the use of supervisory, examination and investigatory tools and techniques for on-chain and off-chain data. When considering crypto-asset related data, it is important to bear in mind that on-chain data can be difficult to decipher without the required tools and expertise and is often pseudonymous or anonymous. Off-chain data, such as that available from crypto-asset trading platforms, typically is not audited or otherwise verified. ANNEX C provides a detailed analysis of data gaps and challenges in DeFi.

⁴² See 2022 Report, supra note 5, at 3-4.

Regulators could consider how best to communicate and engage with DeFi market participants and others (such as academics, researchers, and public policy groups) as they evaluate DeFi products, services, arrangements, and activities within their jurisdictions and apply existing or new frameworks.

Recommendation 2 - Identify Responsible Persons

A regulator should aim to identify the natural persons and entities of a purported DeFi arrangement or activity that could be subject to its applicable regulatory framework (Responsible Person(s)).43 These Responsible Person(s) include those exercising control or sufficient influence over a DeFi arrangement or activity.

Responsible Person(s) generally are persons and entities that provide or actively facilitate the provision of products or services. Responsible Person(s) include those that maintain control or sufficient influence over a particular DeFi arrangement or activity.⁴⁴ Regulators can consider, for example, those with design and maintenance control; financial and economic control; and formal and legal control, among other things. In many cases, those who have control or sufficient influence over a particular activity at the enterprise level (see Recommendation 1 above) will also be Responsible Persons.

In conducting this analysis, a regulator should carefully examine any claim that the arrangement or activity is purportedly decentralized to the point that no persons or entities are responsible and should subject Responsible Persons to its applicable regulatory

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⁴³ Responsible person(s) is meant broadly, to encompass, for example, natural persons, groups of persons, entities and organizations, whether formally or informally constituted.

See also FATF, UPDATED GUIDANCE FOR A RISK-BASED APPROACH, VIRTUAL ASSETS AND VIRTUAL ASSET SERVICE PROVIDERS 27 (2021), available at: https://www.fatf-gafi.org/en/publications/Fatfrecommendations/Guidance-rba-virtual-assets-2021.html ("[C]reators, owners and operators or some other persons who maintain control or sufficient influence in the DeFi arrangements, even if those arrangements seem decentralized, may fall under the FATF definition of a [Virtual Asset Service Provider ('VASP')] where they are providing or actively facilitating VASP services. This is the case, even if other parties play a role in the service or portions of the process are automated. Owners/operators can often be distinguished by their relationship to the activities being undertaken. For example, there may be control or sufficient influence over assets or over aspects of the service's protocol, and the existence of an ongoing business relationship between themselves and users, even if this is exercised through a smart contract or in some cases voting protocols. Countries may wish to consider other factors as well, such as whether any party profits from the service or has the ability to set or change parameters to identify the owner/operator of a DeFi arrangement. These are not the only characteristics that may make the owner/operator a VASP, but they are illustrative. Depending on its operation, there may also be additional VASPs that interact with a DeFi arrangement."). Indicia of control or influence can include, for example, ownership interest; significant financial interest; significant voting rights; management of or the ability to impact the operations of the protocol at an enterprise or fundamental level; the ability to set permissions or access rights for users of the protocol, or to otherwise impact the rights of other users of the protocol; control over user assets; and the ability to enter into agreements for the protocol or enterprise. What constitutes control may also depend on the relevant regulations in a jurisdiction.

framework. In assessing who is a Responsible Person, rather than relying on labels or concepts such as decentralization or the automated nature of smart contracts in DeFi arrangements, a regulator should evaluate all the facts and circumstances, including: (a) the roles of natural persons and entities in a DeFi arrangement and how those persons and entities interact with each other and how those roles may evolve over time; (b) the ability of those natural persons and entities, such as developers or foundations or decentralized autonomous organizations (DAOs), to control or influence the arrangement, including through actions that would impact a smart contract, protocol, or the enterprise level operations of any particular DeFi arrangement; (c) whether there are other parties exercising control or influence over the DeFi arrangement, such as venture capital firms, large investors, or governance/voting token holders or voters; (d) the economics of the arrangement, including financial incentives for participation, such as who is receiving investments and returns on investment, fees, payments for development or governance activities, or payments from inventories or treasuries; and (e) how a regulator might apply regulatory oversight over these natural persons or entities.⁴⁵

When considering persons and entities that may be Responsible Persons, it is important to note that governance mechanisms currently used for DeFi arrangements are not self-Human involvement typically is necessary to effectuate governance decisions, or to translate and implement proposals to make changes to a project's protocol, smart contracts or other code into usable code. So those making such proposals often must rely on others with technical control and skill (i.e., administrative access and requisite technical capability) to implement governance decisions. Code could also be designed and updated through the deployment of automated methodologies - including those that utilize artificial intelligence or other technologies. For such cases, the person or entity that is responsible for deploying or using such methodologies could also be considered in the assessment of Responsible Persons. ANNEX D gives a detailed analysis of how governance currently operates in DeFi and can be a useful starting point for an analysis.

Depending upon the facts and circumstances, such Responsible Person(s) can include, for example:

founders and developers of a project;

⁴⁵ Id. at 27 ("[C]ountries will need to evaluate the facts and circumstances of each individual situation to determine whether there is an identifiable person(s), whether legal or natural, providing a covered service. Marketing terms or self-identification as a DeFi is not determinative, nor is the specific technology involved in determining if its owner or operator is a [Virtual Asset Service Provider (VASP)]. Countries should apply the principles contained in the Standards in a manner that interprets the definitions broadly, but with regard for the practical intent of the functional approach. It seems quite common for DeFi arrangements to call themselves decentralized when they actually include a person with control or sufficient influence, and jurisdictions should apply the VASP definition without respect to self-description. Countries should be guided by the principle that the FATF intends to cover natural or legal persons who conduct the financial services covered in the definition as a business. If they meet the definition of VASPs, owners/operators should undertake ML/TF risk assessments prior to the launch or use of the software or platform and take appropriate measures to manage and mitigate these risks in an ongoing and forward-looking manner.").

- issuers of governance/voting tokens;
 - holders and/or voters of governance/voting tokens;
 - DAOs or participants in DAOs;
 - those with administrative rights to smart contracts and/or a protocol (i.e., with the ability to alter the coding or operation of the protocol to some degree);
 - those who have or take on the responsibility of maintaining/updating the protocol or other aspects of the project, such as access rights;
 - those with access to material information about the protocol or project to which other participants lack access;
 - those who are promoting use of the protocol through, for example, providing a user interface or otherwise facilitating interaction with the protocol, and/or releasing updates to the protocol;
 - those with custody (or effective control through an administrative key, voting structure, or otherwise) over user funds or assets, or with the ability to reverse transactions; and
 - those who are profiting, for example, through fees paid by users of the protocol.

Once a regulator identifies Responsible Persons, their activities should be assessed using Existing Frameworks or New Frameworks, as appropriate, in accordance with the principle of "same activity, same risk, same regulatory outcome."

Recommendation 3 - Achieve Common Standards of Regulatory Outcomes

A regulator should use Existing Frameworks or New Frameworks to regulate, supervise, oversee, and address risks arising from DeFi products, services, arrangements, and activities in a manner consistent with IOSCO Standards. The regulatory approach should be functionally based to achieve regulatory outcomes for investor protection and market integrity that are the same as, or consistent with, those that are required in traditional financial markets.

Guidance

DeFi products, services, arrangements, and activities that involve regulated financial instruments, including securities, in a particular jurisdiction should be subject to applicable laws. Regulators should consider how best to apply their Existing Frameworks or New Frameworks to DeFi products, services, arrangements, and activities. This may include, among other things, IOSCO Standards and laws applicable to issuers, exchanges, trading systems, market intermediaries (including brokers, dealers, investment advisors, custodians, clearing agencies, transfer agents, settlement services, and other service providers), as well as collective investment schemes, hedge funds and other private investment vehicles. The mapping below provides examples of such products, services,

arrangements, and activities that may fall within the scope of securities or other financial instrument laws. The mapping in <u>ANNEX F</u> details how the IOSCO Standards apply generally to DeFi products, services, arrangements, and activities.

In particular, the regulatory approach relating to DeFi should seek to achieve regulatory outcomes for investor and customer protection and market integrity that are the same as, or consistent with, those that are required in traditional financial markets. Regulators should also consider whether existing requirements need to be tailored or adapted to address DeFi-specific features and risks.

- Investor protection: A regulator should assess whether their regulatory framework requires material disclosures about DeFi products, services, arrangements, and activities and, if so, who provides them and how. Full, timely and accurate disclosure of material financial and non-financial information provides investors with information about the issuer, the risks and costs of investing in or using a particular DeFi product or service, its governance structure, description of applicable laws, and financial results or other information specific to the DeFi product or service. This may include an analysis of how disclosure standards within the jurisdiction apply to offers/sales of crypto assets in DeFi. A regulator should also assess how their regulatory framework would apply to prevent fraud, misconduct, and other risks to investors, such as those arising from conflicts of interest and interconnectedness.
- Market integrity: A regulator should also assess whether their regulatory framework imposes market integrity measures, including those relating to orderly trading with respect to a DeFi product, service, arrangement or activity and, if so, who should provide them and how. To the extent any particular DeFi arrangement (or part thereof) is identified as a CASP, the regulator should apply the recommendations as set forth in the CDA Report accordingly.⁴⁶

As regulators consider to what extent IOSCO Standards and regulatory frameworks within their jurisdiction might apply to particular DeFi products, services, arrangements, and activities, regulators should consider whether they replicate or in fact represent those in traditional finance or whether they are different and, if so, how the features of DeFi, such as technological and operational aspects, may impact the manner of applying existing requirements.

Mapping of Common DeFi Products, Service, Arrangements, and Activities to Traditional Finance

The following mapping may be a helpful starting point for determining what DeFi products, services, arrangements, and activities could fall within the remit of any particular

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See CDA Report, supra note 17.

jurisdiction. For a more detailed explanation of how common typologies in DeFi mimic traditional finance, see the 2022 Report⁴⁷ and ANNEX F to this report.

Potential Issuers of Financial Instruments, Including Securities: The following are non-exclusive examples of types of DeFi products, services, arrangements, and activities that could involve the issuance of financial instruments, including securities, in certain jurisdictions, or are similar to such activities in others, either currently or in the future:

- Aggregators and DEXs offering and selling their own crypto-assets, including governance tokens, LP tokens or other crypto-assets;
- Lending/borrowing products or services that offer and sell interests in their pools in exchange for crypto-assets. In these cases, market participants deposit crypto-assets into pools in exchange for an interest in the pool. These pool interests are represented by other crypto-assets or tokens that represent the depositor's pro rata value of the lending pool. The holder of the pool interest represented by the token can obtain value from it by trading it in secondary markets, borrowing against it, or by presenting it to the pool for redemption of the crypto-asset deposited and all accrued pro rata income.
- Lending/borrowing products or services that offer and sell other crypto-assets, such as governance tokens, that may give the holder particular rights, whether to vote on aspects of the lending/borrowing product or service, or other economic interests in the lending/borrowing product or service.
- An AMM or other liquidity pool that offers and sells interests in the pool of cryptoassets that is the AMM. As with the borrowing and lending product tokens that are issued in exchange for crypto-assets deposited in the pools, AMM tokens are also redeemable by the holder for the crypto-asset plus the pro rata income from the pool.
- A developer, founder or promotor of DeFi protocols also may directly offer and sell crypto-assets, including in the form of governance tokens, or other crypto-assets. These offers and sales may occur at the initial funding of the protocols or may occur on an ongoing basis with sales of crypto-assets from the treasury of these protocols.
- Aggregators and DEXs also may be involved in offering and selling crypto-assets or tokens of other issuers, thereby participating in distributions of financial instruments, including securities. This may occur through the aggregator or DEX's operations or offerings through which creators or operators of DeFi protocols may distribute governance tokens or other crypto-assets, including crypto-assets that are placed in treasury for distribution.
- The issuance of derivatives, including derivatives/synthetics on traditional financial instruments, as well as the issuance by a cross-chain bridge, wrapping of a token, or in connection with liquid staking.

Potential Market Intermediaries: There are many DeFi products, services, arrangements, and activities that involve market intermediary participants or activities.

⁴⁷ 2022 Report, supra note 5.

This includes exchange, broker, dealer, investment advisor, custodian, clearing agency, transfer agent, and settlement activities, as well as providers of other services including proxy advisory and credit rating services. The following are non-exclusive examples of types of DeFi arrangements that could involve market intermediary activities in certain jurisdictions, or are similar to such activities in others, either currently or in the future:

- Aggregators, DEXs, and other products and services facilitate the exchange of crypto-assets. DEXs can involve order book exchanges, through which DEXs are performing functions typically associated with exchanges. DEXs can also use AMMs, also known as liquidity pools, which provide liquidity for trading markets. AMMs may be seen to be acting as liquidity providers or market makers thus engaging in buying and selling activities like brokers or dealers.
- Aggregators and DEXs also provide services to users to enable them to trade with multiple AMMs. These activities are akin to broker or dealer activity as well.
- The operation of lending/borrowing products also may involve broker or dealer
 activity, particularly to the extent that the crypto-assets in the pool are financial
 instruments, including securities, and the lending product is engaging in lending
 activities with respect to the crypto-assets that are financial instruments, including
 securities.
- Each of the AMMs and the lending products may also be engaging in custodial
 activities and acting as counterparties, due to the manner in which the products
 engage in holding customer crypto-assets and trading customer crypto-assets.
 Whether these products and protocols may be acting as custodians of crypto-assets
 may depend, in part, on how the crypto-assets are transferred to the smart contracts.
- Aggregators enable users to seek the most favorable terms across a variety of
 protocols. Aggregators allow users to source bids and offers, monitor prices and
 execute transactions across multiple protocols and trading platforms from a single
 interface. These activities likely involve exchange, broker or dealer, or investment
 advisor activity, depending on the particular facts.
- Yield aggregators are platforms of investment opportunities which, depending on how they are structured, provide the functions of either or both a broker and/or an investment advisor. Some yield aggregators provide a type of asset management which has similar characteristics to automated investment or robo-advisory services.
- Portfolio aggregators' primary functionality gives investors visibility into their current positions and allows them to execute transactions from the aggregator's interface thus providing the functions of a broker or dealer.
- Aggregators specializing in governance protocols may centralize proposals and voting across various DAOs, providing recommendations on how to vote on certain proposals. In this capacity, these types of aggregators may be acting as

proxy advisors, if voting is delegated to the protocol. Investors may exchange their voting right(s) for compensation in such arrangements.

Promotors of DeFi products or services.

Potential Collective Investment Schemes: DeFi products, services, arrangements, and activities may fall within the scope of collective investment schemes (retail/non-retail), hedge funds and other private investment vehicles. Further, DeFi activities and participants that involve operation, marketing, management and advising with respect to these funds may be subject to laws that apply to such activities in many jurisdictions. The following are non-exclusive examples of types of DeFi activities that could involve collective investment schemes (retail/non-retail), hedge funds or other private investment vehicles, and those who operate, market, manage and advise with respect to such funds in certain jurisdictions, or are similar to such activities and participants in others, either currently or in the future:

- Certain aggregators and DEXs may be creating collective investment schemes, hedge funds or other private investment vehicles through the use of AMM arrangements. For example, AMMs typically provide a means for participants to deposit two or more crypto-assets into a smart contract (or liquidity pool) and receive a crypto-asset representing the interest in the pool (and income therefrom). Market participants are then able to use aggregators, DEXs and other service providers to engage in trading activities with the pools. The pools may constitute collective investment schemes. While some of this activity may involve broker or dealer activity, the activity can also include the provision of investment advice. For example, some aggregators provide services that offer investment opportunities to users, such as by obtaining for users the best prices for crypto-assets.
- Lending/borrowing protocols also may involve collective investment schemes, funds and other private investment vehicles. Lending products are pools of crypto-assets deposited by holders in exchange for another token representing the interest in the pool. The lending product then enables other crypto-asset market participants to borrow the crypto-assets in exchange for interest payments. The pooled nature of these lending products may satisfy the definition of collective investment scheme in many jurisdictions. Operators of lending and borrowing protocols also may be viewed, depending on their structures, as investment advisors or sponsors of the collective investment scheme. Initially at least, these operators set the terms of the smart contract arrangements, such as the crypto-asset pairs available to trade, maintain the algorithm to update interest rates, set utilization rates, and address instances of default, including maintenance of a reserve factor.
- Some DeFi products may be structured and operate as hedge funds (or other private funds, or retail/non-retail collective investment schemes), depending on applicable laws. For example, vaults are a mechanism for retail investors to participate in allegedly on-chain hedge funds by deploying capital into single or multi-strategy pools run by smart contracts. The sale of the interests in these pools may be

collective investment vehicles as they are offered to the public or, if limited to institutions, may be hedge funds. There are also hedge funds that invest or interact with DeFi activities, products and services and the IOSCO Standards applicable to hedge funds would apply to these hedge funds as well.

Potential Exchange/Trading Systems: There are DeFi products, services, arrangements, and activities that could involve exchange and trading system activity. This includes exchange and over the counter activities, both in cash (spot) crypto-asset and derivatives markets. The following are non-exclusive examples of types of DeFi activities and participants that could involve exchange and trading system activity subject to regulation in certain jurisdictions, or are similar to such activities in others, either currently or in the future:

- Aggregators and DEXs facilitate the exchange of crypto-assets. DEXs can involve order book exchanges, through which DEXs are performing functions typically associated with exchanges. DEXs can also use AMMs, also known as liquidity pools, that provide liquidity for trading markets.
- Aggregators and DEXs facilitate the trading of crypto-assets. These activities can involve exchange and trading system activities, and also may operate as an issuer or primary distribution mechanism for new tokens or crypto-assets.
- Aggregators and DEXs also may be acting as a market for derivatives. These kinds
 of derivatives trading activities include providing protection or selling protection
 against loss (similar to swaps activities), selling synthetic exposures based on the
 value of other assets (which could include securities), and engaging in perpetual
 futures trading activity.
- Certain lending/borrowing products may act as exchanges or trading systems depending on the particular structure.
- Many protocols enable automated, and often high-speed, trading, often by sophisticated, well-capitalized entities. Algorithmic trading is common in the DeFi space, and bots are employed to run various trading strategies or identify arbitrage opportunities. Oracles and bridges offer connectivity with off-chain data and between DeFi protocols.

Potential Clearing and Settlement Entities: The following are non-exclusive examples of types of DeFi activities and participants that could involve clearing and settlement activity subject to regulation in certain jurisdictions, or are similar to such activities in others, either currently or in the future:

Aggregators and DEXs use DLT to transfer ownership of crypto-assets. Depending
on the particular protocol, these crypto-assets may be held within an associated
smart contract, nominally on behalf of the user of the protocol. Changes in
ownership of crypto-assets within DEX and AMMs likely involve clearing and
settlement activity.

- Lending/borrowing protocols, as with DEXs and AMMs, generally rely on associated smart contracts to hold crypto-assets and to effectuate transfers of crypto-assets in associated lending pools. Changes in ownership of crypto-assets lending/borrowing protocols likely involve clearing and settlement activity.
- The activities of certain types of aggregators may also be viewed as clearing and settlement activity. For example, yield aggregators are platforms of investment opportunities which, depending on how they are structured, can provide the functions of either or both a broker and/or an investment advisor while potentially acting as a central counterparty. These activities may also operate as settlement systems, depositories, or central counterparties depending on their structure.
- Layer 1 blockchains could themselves be carrying out clearing and settlement activities.

Having undertaken the analysis described above, if a regulator determines that the DeFi arrangement (or any aspect of it) falls within its jurisdictional remit, the regulator should apply its regulatory framework in accordance with the principle of "same activity, same risk, same regulatory outcome."

Regulators may also consider what other laws might apply within their jurisdiction (e.g., data protection, consumer protection, cybersecurity, advertising regulation, legal ownership, etc.) and to what extent they may work with other authorities within their jurisdiction to mitigate risks from DeFi.⁴⁸

Regulators should consider whether applicable frameworks may need to be strengthened, augmented or clarified to address any gaps in applicable frameworks to avoid regulatory arbitrage between traditional financial markets and crypto asset and DeFi markets.

Recommendation 4 - Require Identification and Addressing of Conflicts of Interest

In applying Existing Frameworks or New Frameworks, a regulator should seek to require providers of DeFi products and services and other Responsible Persons, as appropriate, to identify and address conflicts of interest, particularly those arising from different roles and capacities of, and products and services offered by, a particular provider and/or its affiliates. These conflicts should be effectively identified, managed and mitigated. A regulator should consider whether certain conflicts are sufficiently acute that they cannot be effectively mitigated, including through effective systems and controls, disclosure, or prohibited actions. This may

⁴⁸ Regulators should also assess the AML/CFT risks of DeFi arrangements and require adherence to FATF Standards. See FATF, TARGETED UPDATE ON IMPLEMENTATION OF THE FATF STANDARDS ON VIRTUAL ASSETS AND VIRTUAL ASSET SERVICE PROVIDERS 4 (June 2023), available at https://www.fatfgafi.org/en/publications/Fatfrecommendations/targeted-update-virtual-assets-vasps-2023.html ("Jurisdictions should assess illicit finance risks of DeFi arrangements, consider how DeFi arrangements fit into their AML/CFT frameworks, and share their experiences, practices and remaining challenges with the FATF's global network to mitigate the risk of DeFi arrangements.").

include requiring more robust measures such as legal disaggregation and separate registration and regulation of certain activities and functions to address this Recommendation.

Many DeFi arrangements and activities today are being conducted in a manner that presents conflicts of interest. DeFi participants may be acting in roles and capacities that create conflicts of interest. Such conflicts can arise, for example, if the provider of a DeFi product or service itself has a financial interest derived from user or third-party activities, an ownership interest in a related third-party, or a favorable arrangement with a particular related party. In particular, the provider may take advantage of their control or influence over the governance of the DeFi arrangement to promote proposals or initiatives that inure to their benefit financially. Conflicts could also arise if the provider is engaged in multiple activities in a vertically integrated matter, either themselves or with affiliated parties. For example, the provider may operate a trading platform while simultaneously being a counterparty to transactions with a user as a market maker or employ technologies like bots or algorithms to transact with users. Indeed, a fundamental conflict may exist if developers, founders and early investors lack the incentive to maintain a project after receiving an initial investment and are instead incentivized to exit the project.

Because of the complexities and opacities in DeFi arrangements, discussed in this report and its Annexes, investors may be unaware that such conflicts may exist. In fact, claims that DeFi is completely transparent due to the public nature of blockchains may mislead investors to believe there are no hidden conflicts, therefore exacerbating risks. Aggressive marketing tactics, behavioral engagement practices, and claims about profitability can further entice investors into arrangements that may put the interests of others over the interests of the investor. These could include the promotion of highly levered strategies or the re-hypothecation of investor assets into a cascade of products and services that may provide benefits to promoters of these strategies in the form of increased fees or kick-backs, for example. It may be unclear to a user the role and capacity in which a provider of a product or service is acting at all times. Concerns around conflicts of interest are further heightened if the provider of the DeFi product or service is in a fiduciary or similar relationship with a user.

A regulator should require Responsible Persons, including providers of DeFi products and services, to be responsible for identifying, managing and mitigating conflicts of interest. A regulator should consider whether certain conflicts are sufficiently acute that they cannot be effectively mitigated, including through effective systems and controls, disclosure, or prohibited actions, and may require more robust measures such as legal disaggregation and separate registration and regulation of certain activities and functions.

A regulator should also seek to require Responsible Persons, including providers of DeFi products and services, to identify, and to the extent practicable, address conflicts of interest that do not directly involve the providers but have an adverse impact on their users/investors.

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There are conflicts of interest that may not directly involve the provider of a DeFi product or service but nevertheless have an adverse impact on the users/investors of the DeFi product or service. One example of such a conflict of interest in the DeFi ecosystem presents itself in connection with certain MEV strategies. Among other things, MEV refers to the exploitation of mempool data⁴⁹ by persons or entities participating in a blockchain's consensus mechanism (i.e., miners, validators, or other participants) to maximize their profit by choosing and sequencing proposed transactions from the mempool and/or inserting other transactions that are added to a block to be appended to a blockchain. However, the ability to reorder, insert, and otherwise control transactions enables conduct that in traditional markets would be considered manipulative and unlawful.50 This activity can result in transactions failing to achieve execution on the terms expected. Such activity could take the form of typical MEV exploits, the most common involving "front-running," "back-running," and "sandwich attacks" (see ANNEX B):

- "Front-running" occurs when a participant attempts to execute their own transaction before a pending mempool transaction to realize a profit. A miner/validator could execute this attack through re-ordering transactions on a proposed block or a participant might attempt to pay a higher gas fee or collude with a miner/validator to move their transaction ahead of the pending transaction.51
- "Back-running" occurs when a participant seeks to have their transaction executed immediately after a pending transaction. This might be profitable if the pending transaction is to create a new pair for trading on an AMM. An attacker can employ back-running bots that find a new token pair listing and place a transaction order immediately after the initial liquidity to purchase as many tokens as possible, leaving supply in the market depleted.
- A "sandwich attack" is when a participant places two transactions around, one immediately before and another right after, a pending transaction. Searchers typically use sandwich attacks to extract MEV from unsuspecting traders on decentralized exchanges by manipulating the price of an asset. For example, a trader might identify a token that a victim is about to buy and trades to push the price of the asset up, then sells immediately after the victim's buy order has further increased the price.

The mempool consists of transactions that are waiting to be processed by the blockchain's miners/validators.

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In certain jurisdictions, these MEV strategies may already be subject to, or prohibited by, existing 50 laws and regulations.

One study calculates the losses due to frontrunning attacks between May 2020 and April 2021 to have amounted to more than \$100 million USD. See Agostino Capponi et al., Inefficiencies in Public Distributed Ledgers (Dec. 31, 2021), available at https://papers.ssrn.com/sol3/papers.cfm?abstract_id=3997796.

• Regulators should seek to hold a provider of a DeFi product or service responsible for identifying and, to the extent practicable, managing and mitigating the impact of MEV strategies used by miners/validators on the underlying blockchain on which the provider chooses to operate or offer the product or service. For example, for a DeFi arrangement that facilitates the trading of regulated financial instruments, the design of the trading mechanism could mitigate the impact of MEV to users/investors trading these instruments. There may be additional conflicts that would need to be addressed if the DeFi product or service provider itself were to have an economic interest in the MEV activity, such as through payment for order flow to certain miners/validators or others.

<u>Recommendation 5 - Require Identification and Addressing of Material Risks,</u> <u>Including Operational and Technology Risks</u>

In applying Existing Frameworks or New Frameworks, a regulator should seek to require providers of DeFi products and services and other Responsible Persons, as appropriate, to identify and address material risks, including operational and technology risks. These risks should be identified and effectively managed and mitigated. A regulator should consider whether certain risks are sufficiently acute that they cannot be effectively mitigated and may require more robust measures to address this Recommendation.

A regulator should require providers of DeFi products and services and other Responsible Persons, as appropriate, to establish and maintain a risk management framework that addresses risks arising from the product or service itself, the participants and arrangement, and the market in which the provider of the product or service operates. Where appropriate and consistent with jurisdictional mandates, regulators could impose regulatory requirements to address the risks through means such as the application of "fit and proper" standards.

DeFi arrangements and activities introduce unique operational and technological risks, including those stemming from the underlying DLT, smart contracts and protocols, governance structures, oracles, and bridges. These risks can arise from any one layer of the tech stack that underlies DeFi, as well as from interdependencies between and among those layers of the tech stack. A detailed description of the DeFi tech stack and inherent technological risks can be found in the 2022 Report and in the Annexes to this report. These include, among others, risks arising from the operational interconnectedness of DeFi, due in part to the composability and modularity inherent to DeFi protocols; the proliferation of exploits targeting vulnerable code across protocols' similar code; and a concentration of critical service providers and other participants within DeFi. A regulator should consider how such risks can be identified and effectively managed and mitigated.

Regulators should evaluate, as with other automated or software code based activities in traditional financial products and services, how the automation of certain functions in DeFi arrangements works and consider (a) risks posed by the use of unique or different

technology that is not already used in traditional financial markets or otherwise covered by existing regulatory frameworks; (b) how technology, generally, may assist in identifying, managing and mitigating risks in automated products and services; and (c) how regulators may use technology to facilitate supervision and oversight, as appropriate, within a jurisdiction's regulatory framework, and to enhance the IOSCO mandates of investor protection and market integrity.

A provider of DeFi products and services often has control over the smart contracts incorporated into the product or service. A regulator should ascertain what type of control a provider has over a product or service, including through administrative rights to alter smart contracts. A regulator should seek to hold those with control or sufficient influence over the operational or technological features of a DeFi product or service responsible for identifying, managing, and mitigating risks, such as the risk of theft or loss of assets through operational or cybersecurity failures.

A provider of DeFi products and services can rely significantly upon oracles and cross-chain bridges for interoperability with off-chain data or other blockchains. When this is the case, a regulator should consider applying identification, management, and mitigation measures similar to those applied to Responsible Persons in traditional finance, even if certain functionality has been outsourced to affiliated or unaffiliated service providers. In this case, a regulator should consider ways to require the provider to identify, mitigate and manage risk by, for example, requiring adequate due diligence and ongoing monitoring of such service providers, the evaluation, mitigation and management of risks, the implementation of business continuity measures, and the like.52

A regulator should consider whether certain risks are sufficiently acute that they cannot be effectively managed or mitigated and may require more robust measures to address this Recommendation.

Oracles and Bridges

Those who provide DeFi products and services often rely on oracles and cross-chain bridges because blockchains essentially operate in siloed environments. Oracles provide connectivity with off-chain data, such as pricing data. Cross-chain bridges provide connectivity with other blockchains. For example, such a bridge can permit a holder of crypto-assets issued on one blockchain to convert to a crypto-asset usable on another, which may facilitate access to liquidity. Such a bridge can also permit the transmission of data between smart contracts of a protocol that is deployed on multiple blockchains, so as to effectuate certain parameter changes to the protocol. However, oracles and bridges present significant technological and operational risks. Those risks are detailed in ANNEX E. For example, both oracles and cross-chain bridges have been prone to significant hacks and exploits. One industry report calculates that DeFi protocols lost

See IOSCO, PRINCIPLES ON OUTSOURCING (Oct. 2021), available at https://www.iosco.org/library/pubdocs/pdf/IOSCOPD687.pdf; see also FSB, ENHANCING THIRD-PARTY RISK MANAGEMENT AND OVERSIGHT (June 2023), available at https://www.fsb.org/wpcontent/uploads/P220623.pdf.

more than \$400 million in 41 separate oracle manipulation attacks in 2022 (see ANNEX E), and that 64% of the \$3.1 billion stolen from DeFi protocols in 2022 was attributable to cross-chain bridges⁵³ (see ANNEX B).

Regulators should assess whether those providing DeFi products and services present operational and technological risks, including those due to reliance on oracles and crosschain bridges, among other things. Those risks could be amplified, given particular governance structures that may not be suited to addressing technological and operational risks in a timely and effective manner. Regulators should seek to require providers of DeFi products that rely on oracles and cross-chain bridges to identify, manage and mitigate the risks posed by such technology. In some jurisdictions, regulators may choose to require more robust measures.

Recommendation 6 - Require Clear, Accurate and Comprehensive Disclosures

In applying Existing Frameworks or New Frameworks, a regulator should seek to require providers of DeFi products and services and other Responsible Persons, as appropriate, to accurately disclose to users and investors comprehensive and clear information material to the products and services offered in order to promote investor protection and market integrity.

Information about DeFi products, services, arrangements, and activities is often technologically complex and/or opaque. This may arise due to a number of factors, including, but not limited to, the complex nature of the products or services themselves or of the underlying tech stack, and opacities in certain aspects of the arrangement's business, operations and governance. Consequently, the complexity and opacity of DeFi products, services, arrangements, and activities can result in significant information asymmetries, where users and investors are not fully apprised of the nature of the products, services, arrangements, and activities with which they are interacting and the associated risks that they may be exposed to, leading to investor harm.

To address this, a regulator should seek to require providers of DeFi products and services and, as appropriate, other Responsible Persons, to accurately disclose to users and investors comprehensive and clear information about the material aspects of the provider's products, services, business, operations, governance, risks, conflicts of interest, and financial condition. Disclosures should include a plain-language description of material risks to the user or investor. It should also include a description of any crypto-assets involved in the product or service. This may include a prospectus or an equivalent document from an issuer of a crypto-asset or other financial instruments. Disclosure should also include a description of the governance and lines of responsibility and accountability within the DeFi arrangement, including identifying key persons and the roles they play in the provision of the product or service as well as, as appropriate, related parties and outside service

⁵³ CHAINALYSIS, supra note 21, at 58.

providers. Information in marketing and promotional communications should be consistent with such disclosures.

Regulators should require providers of DeFi products and services and other Responsible Persons to disclose any material risks associated with the underlying technologies used to deliver these products and services, as appropriate and in line with jurisdictional legal frameworks.

Recommendation 7 - Enforce Applicable Laws

A regulator should apply comprehensive authorization, inspection, investigation, surveillance, and enforcement powers, consistent with its mandate, to DeFi products, services, arrangements, and activities that are subject to Existing Frameworks and New Frameworks, including measures to detect, deter, enforce, sanction, redress and correct violations of applicable laws and regulations. A regulator should assess what technological knowledge, data and tools the regulator needs to enforce applicable laws.

Guidance

Consistent with the principle of "same activity, same risk, same regulatory outcome," DeFi products, services, arrangements, and activities should be regulated in a manner consistent with the aim of promoting investor protection and preventing the same types of misconduct and fraudulent and manipulative practices that exist in traditional financial markets, as well as any additional risks presented by DeFi. Regulators should have the powers and capabilities to enforce applicable regulatory, supervisory and oversight requirements, including authorization and licensing requirements, and the ability to undertake inspections or examinations, as appropriate and consistent with their respective mandates. Regulators should seek to bring enforcement actions or other corrective actions against Responsible Persons for fraud and market abuse, in addition to other failures of regulatory compliance, where appropriate. This includes misuse of material, non-public information, insider dealing, market manipulation, issuing false and misleading statements, and misappropriation of funds, among other conduct. The guidance associated with Recommendation 2 can be considered in identifying the appropriate parties that could be held responsible from a regulatory standpoint.

As do other market participants, DeFi market participants may seek to structure their arrangements and activities to avoid regulation, offer products and services within a jurisdiction while operating from another jurisdiction, and/or operate in noncompliance with applicable existing laws, thereby challenging the ability of jurisdictions to regulate, supervise, oversee, and enforce applicable laws, which increases the risk of regulatory arbitrage and weakens investor protections.

In order to address these challenges, regulators should assess whether they have the appropriate powers, tools and resources.⁵⁴ Regulators should seek methods to obtain the

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Regulators should also consider means to engage and inform investors about DeFi activities and risks, including to enhance investors' understanding of the role of the regulator in relation to DeFi

appropriate data, tools and expertise they will need to conduct investigatory and enforcement activities. This may include crypto-asset market data, including blockchain data, as well as blockchain analytical tools and techniques.

Recommendation 8 - Promote Cross-Border Cooperation and Information Sharing

A regulator, in recognition of the cross-border nature of DeFi products, services, arrangements, and activities, should have the ability to cooperate and share information with regulators and relevant authorities in other jurisdictions with respect to such arrangements, and activities. This includes having available cooperation and information sharing arrangements and/or other mechanisms to engage with regulators and relevant authorities in other jurisdictions. These should accommodate the authorization and on-going supervision of regulated persons and entities and enable broad assistance in enforcement investigations and related proceedings.

Guidance

The owners and operators of DeFi products and services often are based in multiple jurisdictions and/or offer their DeFi products and services on a cross-border basis. Those with control or sufficient influence over the operation of DeFi arrangements can be geographically dispersed across a number of jurisdictions. At the same time, there is often a lack of transparency regarding the ownership and operation of the DeFi products and services, including a lack of available information on the identity and location of the owners and operators of the DeFi protocols and the size and scope of the DeFi arrangements and activities occurring in particular jurisdictions. To the extent that such information is available, the information is often highly complex or technical and/or otherwise limited in some way, including due to the pseudonymous nature of many DeFi activities.

Some DeFi arrangements and activities may claim not to have a geographical location or will claim they have no presence in a particular jurisdiction. Some may point to the fact that they employ a distributed governance structure or that various actors involved in the arrangement or activity are geographically dispersed. Some may choose an organizational structure that is called a *Decentralized Autonomous Organization* or DAO or they may legally organize in one jurisdiction, have personnel in another jurisdiction, and offer products and/or services in yet another jurisdiction. Regulators should consider whether their regulatory framework captures whatever activity is occurring in their own jurisdiction and should consider ways to cooperate with other jurisdictions to the fullest extent practicable in order to address risks to investors and markets within their own jurisdictions.

activities and to provide investors with tools to assess the risks associated with particular DeFi activities and to protect themselves against fraud and other abuses. In so doing, regulators could consider investor education techniques, including those discussed in the IOSCO, RETAIL MARKET CONDUCT TASK FORCE FINAL REPORT (March 2023), available at

https://www.iosco.org/library/pubdocs/pdf/IOSCOPD730.pdf, and in the IOSCO, INVESTOR EDUCATION ON CRYPTO-ASSETS FINAL REPORT (Dec. 2020), available at https://www.iosco.org/library/pubdocs/pdf/IOSCOPD668.pdf.

Recognizing the cross-border nature of DeFi products, services, arrangements, and activities, regulators should have the ability to cooperate and share information to assist one another to fulfill their respective mandates relating to such products, services, arrangements, and activities. Regulators also should have in place effective cooperation and information sharing arrangements and/or other mechanisms to engage with relevant authorities in other jurisdictions. These should allow regulators to provide broad assistance in enforcement investigations and related proceedings and, as appropriate, the authorization and supervision of regulated DeFi market participants. Cooperation and information sharing should also aim to facilitate a shared understanding of activities and risks of DeFi across jurisdictions. Regulators should aim to share information and cooperate in a timely and effective way, especially when there is a risk of investor or market harm. Regulators should consider ad hoc arrangements to address matters of urgency.

To enhance effective supervision of the markets, regulators should consider bilateral and/or multilateral cooperation arrangements beyond the enforcement context, as appropriate, such as supervisory colleges, networks, regional arrangements, or other forms of cross-jurisdictional cooperation, to support rigorous and effective ongoing supervision of DeFi activities and arrangements operating across multiple jurisdictions.

Regulators should cooperate with each other and share information, both domestically and internationally, consistent with their respective mandates and applicable legal requirements and, to the greatest extent possible, to promote effective information sharing to assist one another with fulfilling their respective mandates and, where appropriate, to encourage the consistency of outcomes relating to DeFi, including cooperation and information sharing in the following areas:

- Emerging Risks: Regulators should cooperate and share information relating to DeFi activities occurring across jurisdictions, for effective risk monitoring of DeFi activities, and to facilitate a shared understanding of related risks, including to market integrity, investor protection, and financial stability. In particular, regulators should share information on emerging trends and other developments with the potential for significant cross-border impacts, as well as information to assist with understanding and analyzing DeFi arrangements (i.e., in furtherance of these Recommendations). Sharing typologies of DeFi arrangements and activities, as appropriate, may also assist in analyzing and comparing observed behavior.
- Registration/Authorization: Regulators should cooperate and share information
 relating to requests by other regulators regarding firms engaged in DeFi activities to
 become registered and/or authorized to conduct business in a particular
 jurisdiction, for example, as a type of trading venue authorized within a particular
 jurisdiction. Among other things, regulators should have the ability to share
 information relevant to the requesting regulator's decision whether to register
 and/or authorize such firms, provided that any confidentiality requirements are
 satisfied. Examples of information that should be shared may include the ownership
 and operation of the DeFi products and services in which the firm is engaged, and

- other relevant features of the DeFi activities of the firm, including the size and scope of the DeFi products and services offered by the firm and the firm's compliance with relevant applicable laws and regulations across jurisdictions.
- Supervision: Regulators should also seek to enable cooperation and information sharing to further the effective supervision of DeFi activities, consistent with their respective jurisdictions' laws and regulations. Regulators should use existing cooperation and information sharing arrangements (e.g., memoranda of understanding, ad-hoc arrangements, supervisory colleges, networks), to the fullest extent practicable, or consider establishing new bilateral or multilateral cooperation and information sharing arrangements that may encompass additional subject areas or jurisdictional authorities, to support the effective ongoing supervision of DeFi activities operating across multiple jurisdictions. Regulators should utilize such arrangements to provide assistance to one another with, among other things, examinations and inspections of registered firms engaged in DeFi activities, including to provide other regulators with access to the books and records of those firms, if appropriate.
- Enforcement: IOSCO has in place effective mechanisms for cross-border cooperation between financial market authorities to enable the enforcement of laws and regulations applicable to DeFi. Information requests relating to DeFi are captured by IOSCO's Multilateral Memorandum of Understanding (MMoU)⁵⁵ and Enhanced Multilateral Memorandum of Understanding (EMMoU)⁵⁶, premised on the underlying principle of "same activity, same risk, same regulatory outcome." Regulators should use the MMoU and EMMoU to the greatest extent possible to enable cooperation and information sharing relating to DeFi activities. Beyond the MMoU and EMMoU, regulators should also share information with one another and, where relevant, with law enforcement authorities, and work together to stop abusive and criminal behaviors, including financial crime and money laundering, and to mitigate risks to investors.

Recommendation 9 - Understand and Assess Interconnections Among the DeFi Market, the Broader Crypto-Asset Market, and Traditional Financial Markets

When analyzing DeFi products, services, arrangements, and activities, a regulator should seek to understand the interconnections among DeFi arrangements, the broader crypto-asset market, and also the traditional financial markets. In so doing, a regulator should consider how those interconnections impact risks to

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IOSCO, MULTILATERAL MEMORANDUM OF UNDERSTANDING CONCERNING CONSULTATION AND COOPERATION AND THE EXCHANGE OF INFORMATION (rev. May 2012), available at https://www.iosco.org/library/pubdocs/pdf/IOSCOPD386.pdf.

IOSCO, ENHANCED MULTILATERAL MEMORANDUM OF UNDERSTANDING CONCERNING CONSULTATION AND COOPERATION AND THE EXCHANGE OF INFORMATION (2016), available at https://www.iosco.org/about/pdf/Text-of-the-EMMoU.pdf.

investor protection and market integrity, and how they might identify further regulatory touchpoints, including potential responsible persons. A regulator should, as appropriate, seek to employ, maintain and develop suitable methods for monitoring and assessing DeFi products, services, arrangements, and activities.

Guidance

The 2022 Report discussed the importance of centralized crypto-asset trading, lending and borrowing platforms and stablecoins to DeFi. Specifically, centralized platforms are often the on-ramp to participation in DeFi, including by retail investors, and stablecoins facilitate participation in DeFi arrangements, serving as the perceived stable value asset used as one side of a trading pair, or in liquidity or collateral pools to fund or collateralize DeFi activities. Thus, events (such as liquidity crises) that cause shocks or disruptions on centralized platforms or to stablecoins likely will impact DeFi markets. Indeed, some recent crypto-asset market events and their impact on DeFi are discussed in ANNEX A. Regulators should consider how interconnectedness within the crypto-asset markets will impact investor protection and market integrity in DeFi markets. Regulators should also consider whether steps should be taken with respect to centralized platforms and stablecoins and to adhere to the recommendations and guidance contained in the CDA Report⁵⁷ to provide additional investor and market protections.

Regulators should consider how regulatory touchpoints in the DeFi market, the broader crypto-asset market, and traditional financial markets could provide information and, where appropriate, regulators should require the relevant Responsible Persons to apply Regulators should consider ways to identify these investor and market protections. touchpoints, including through surveys of registered entities or through other regulatory frameworks, such as those that pertain to anti money laundering (AML)/countering the financing of terrorism (CFT).

Regulators should understand and assess risks relating to the exposures of traditional financial market participants (i.e., existing regulated entities) to DeFi structures (e.g., through hedge funds, private equity funds, intermediaries, broker or dealers, investment advisers, transfer agents, clearing agencies, custodians, and other institutional participants). Regulators should consider additional approaches to provide important investor, customer and market protections for DeFi market participants, including through their regulation and oversight of traditional financial market participants or centralized crypto-asset platforms involved, directly or indirectly, in DeFi arrangements or activities.

Given the potential effects of DeFi on TradFi, it is important to be able to monitor and evaluate interlinkages between DeFi and traditional financial markets. The following outlines some ways that crypto-assets could touch traditional entities, though these are not exhaustive of all types of connectivity:58

57 CDA Report, supra note 17.

⁵⁸ See also FSB DeFi Report, supra note 12, at 25-26; BIS, THE CRYPTO ECOSYSTEM: KEY ELEMENTS AND RISKS 15 (July 2023), available at https://www.bis.org/publ/othp72.pdf ("[R]isks along the bank-crypto nexus extend beyond (direct and indirect) exposures because of the potential negative externalities

Entity	Potential Relationship to DeFi
Issuer of financial instrument, including securities	Issue crypto-asset; engage in crypto-asset-related operational activities (e.g., mining/validating); hold crypto-assets (e.g., in corporate treasury); participate in governance
Funds (registered)	Invest in DeFi related investments or have exposure to DeFi products/services; participate in governance
Broker/dealer/investment adviser	Conduct services relating to DeFi products/services; link customers to DeFi products/services
Banks/trusts/money services businesses/credit card issuers	Provide services relating to DeFi products/services; invest in DeFi products/services; link customers to DeFi products/services
Third party service providers (auditors/accountants/transfer agents/credit rating entities)	Provide services to DeFi products/services

Regulators should assess potential data sources to monitor interconnections with traditional markets. Such data or indicators might pertain to:

- Traditional financial services being provided to DeFi participants (i.e., banking, loans, holding or managing reserves, fiat to crypto-asset exchange, etc.)
- Correlations between crypto-assets and certain traditional assets (and changes over time)59

associated with banks channeling funds into the crypto ecosystem, given their role as the mainstay of the monetary system. Along with banks, other financial entities such as family offices, hedge funds and asset managers could also increase their crypto investments, lured by the potentially high returns.").

See Tara Iyer, Cryptic Connections: Spillovers between Crypto and Equity Markets, GLOBAL FIN. 59 STABILITY NOTES No 2022/001 (Jan. 11, 2022), https://www.imf.org/en/Publications/global-financialstability-notes/Issues/2022/01/10/Cryptic-Connections-511776.

- Spillovers between crypto-asset prices and select traditional assets (and changes over time) (e.g., computed by the application of econometric models)⁶⁰
- · Size/reserves of stablecoins
- VC/private institutional investment in crypto-assets
- Derivative/synthetic exposure to crypto-assets
- Crypto-assets that are derivatives/synthetics of real-world assets
- The use of real-world assets as collateral or components in DeFi activities

Id.

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SECTION IV. QUESTIONS FOR PUBLIC CONSULTATION

- 1. Do you agree with the Recommendations and guidance in this Report? Are there others that should be included?
- 2. Do you agree with the description of DeFi products, services, arrangements, and activities described in this Report? If not, please provide details. Are there others that have not been described? If so, please provide details.
- 3. Do you agree with the Report's assessment of governance mechanisms and how they operate in DeFi? If not, please provide details.
- 4. Do you agree with the risks and issues around DeFi protocols identified in this Report? If not, please provide details. Are there others that have not been described? If so, please provide details. How can market participants help address these risks and/or issues, including through the use of technology? How would you suggest IOSCO members address these risks and/or issues?
- 5. Do you agree with the description of data gaps and challenges in the Report? If not, please provide details. Are there others that have not been described? If so, please provide details. How can market participants address these data gaps and challenges, including through the use of technology? How would you suggest IOSCO members address data gaps and challenges?
- 6. Do you agree with the application of IOSCO Standards to DeFi activities contained in this Report? Are there other examples of how IOSCO Standards can apply?
- 7. Is there any additional guidance that you would find relevant to help IOSCO members comply with these Recommendations? If so, please provide details.
- 8. Given the importance of the application of IOSCO Standards to DeFi activities, are there technological innovations that allow regulators to support innovation in DeFi/blockchain technologies while at the same time addressing investor protection and market integrity risks? If so, please provide details.
- 9. Are there particular methods or mechanisms that regulators can use in evaluating DeFi products, services, arrangements, and activities, and other persons and entities involved with DeFi? If yes, please explain.
- 10. Do you find the interoperability between this report and the IOSCO CDA Report to be an effective overall framework? If not, please explain.

ANNEX A - RECENT EVENTS⁶¹ AND THEIR IMPACT ON DEFI

Terra USD (UST)/LUNA Collapse

Event Summary:

Over the course of several days in May 2022, the value of Terraform Labs' algorithmic stablecoin, Terra USD (UST), and native token of the Terra blockchain (LUNA), both collapsed, erasing nearly \$40 billion in reported total market value. The price of UST began to depeg from \$1 on May 7, 2022, falling to approximately \$0.37 on May 12, 2022, while the price of LUNA, which was purported to be used to stabilize UST's price, fell from approximately \$119 in April 2022, to a few cents by May 12, 2022.

TerraClassicUSD Price Chart (USTC) Last updated 05:17PM UTC. Currency in USD ☆ Add To Watchlist Max Price Market Cap 24h 90d 180d Ty Jan 2, 2022 - Jun 7, 2023 \$1.25 \$0.750000 \$0.500000 \$0.250000 CoinGecko \$0.00 Jul '22 Oct 22 Jan '23 Apr '22 Apr '23

Source: CoinGecko

This report refers to specific recent events as examples. Use of these examples in the report does not constitute any claim about compliance or non-compliance of any particular crypto-asset, person or entity with existing laws and regulations in relevant jurisdictions. Individual jurisdictions might have different legal interpretations of terms used in this report and different views of compliance or non-compliance of the mentioned crypto-assets, persons or entities with laws and regulations relevant to these jurisdictions. All factual descriptions of crypto-assets, persons and entities are based on information currently known to the authors of this report and are subject to change and revision if new information arrives.

The U.S. Securities and Exchange Commission filed an enforcement action against Terraform Labs PTE Ltd. and its founder, Do Hyeong Kwon, on February 16, 2023. *See* https://www.sec.gov/litigation/complaints/2023/comp-pr2023-32.pdf.

Impact to DeFi Market:

In the weeks after UST lost its \$1 peg, billions of dollars worth of crypto-assets reportedly were taken out of the Terra ecosystem. The TVL of DeFi applications on the Terra blockchain dropped from approximately \$20 billion on May 5, 2022 to less than \$75 million on May 28, 2022. This includes the "Anchor" protocol associated with Terra, which had TVL of more than \$16 billion at its peak.

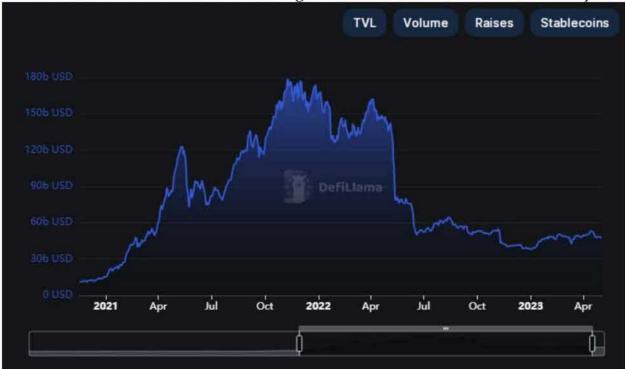


Source: DeFiLlama

The Terra blockchain was halted during this period, preventing users from conducting transactions, while validators and developers reportedly were coordinating activities. In the broader DeFi ecosystem, the death spiral of UST and LUNA appears to have caused a contagion effect, impacting the overall TVL across DeFi platforms on various blockchains. This resulted in a decline from approximately \$142 billion on May 5, 2022, to less than \$80 billion on May 13, 2022, for a TVL loss of nearly 44% in less than two weeks. One research paper suggests that the existence of bridges between the Terra blockchain and other blockchains exacerbated the impacts of the Terra collapse across DeFi, finding that "bridges between programmable blockchain networks create increased risk of spillover effects to other blockchains' programmable environments in the wake of a major shock event like Terra's collapse." The rapid decline in TVL on the Terra blockchain was seen to demonstrate, among other things, the risks of algorithmic stablecoins, the reality that a blockchain can be halted where no user may thereafter transact or exit their positions when desired, and the impact of sentiment and confidence of DeFi market participants on DeFi

63 See https://www.federalreserve.gov/econres/feds/files/2023044pap.pdf.

arrangements and activities. In particular, it would appear that the performance of cryptoassets native to a blockchain or DeFi arrangement is linked to their overall credibility. ⁶⁴



Source: DeFiLlama

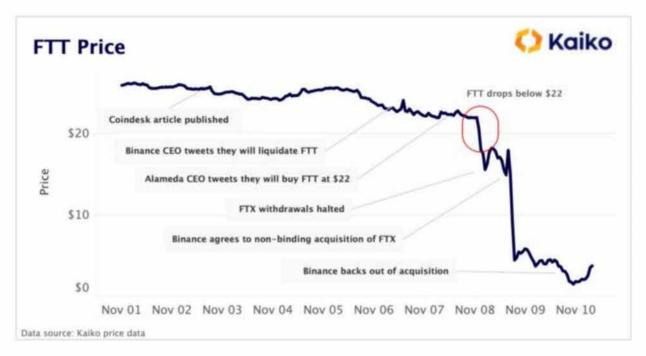
FTX Insolvency

Event Summary:

On November 2, 2022, an article was published, stating that FTX, at the time one of the largest centralized crypto-asset trading platforms by trading volumes, recorded on its balance sheet a significant amount of the *exchange token* of the FTX trading platform (FTT) that purportedly gave certain benefits to holders. Subsequently, the CEO of Binance Holdings Limited (Binance) announced on November 6, 2022, that Binance would liquidate its FTT holdings, which reportedly began a bank-like run as FTX customers apparently lost confidence in the solvency of FTX. FTX reportedly suffered a liquidity crisis, halted customer withdrawals on November 8, 2022, and declared bankruptcy on November 10, 2022. ⁶⁵

See also BIS, THE CRYPTO ECOSYSTEM: KEY ELEMENTS AND RISKS 7 (July 2023), https://www.bis.org/publ/othp72.pdf (noting that the Terra collapse highlights "the tendency to fragmentation through crypto's vulnerability to new entrants who prioritise market share and capacity and the expense of decentralisation and security.").

The events leading to FTXs insolvency are the subject of on-going civil and criminal actions. See, e.g., https://www.sec.gov/news/press-release/2022-219; https://www.cftc.gov/PressRoom/PressReleases/8638-22; https://www.justice.gov/usao-sdny/pr/united-states-attorney-announces-charges-against-ftx-founder-samuel-bankman-fried.



Source: Kaiko

Impact to DeFi Market:

The collapse of FTX appears to have led to wider contagion in the crypto-asset markets, in which market participants suffered losses. Among those impacted were customers, both retail and institutional, with funds on FTX, counterparties to FTX, investors in FTX and FTT, and others. Although FTX was a centralized crypto-asset platform, this contagion appears to have spread to the DeFi ecosystem. FTX and its principal reportedly were major promoters of the Solana blockchain and its ecosystem. ⁶⁶ One particular DeFi protocol built on Solana reportedly required a hard fork because FTX purportedly owned the private key to the protocol. The contagion from FTX also appears to have affected a number of other platforms through financial interlinkages, such as lending platforms and a crypto-asset related investment fund.⁶⁷ The investment fund reportedly was a participant in a DeFi lending pool run by a delegate firm on a given DeFi protocol that underwrote loans on the protocol. As a result of the investment fund's default, other participants in the lending pools were reported to have suffered losses, including an insurance protocol and a smart contract auditing platform. Further, there was an increase in DeFi transaction volumes, potentially due to the inability to use FTX and other lending platforms and/or a loss of confidence in centralized crypto-asset platforms. Due to the pseudonymity of DeFi

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Life After FTX: How Solana DeFi Is Starting Over—Without SBF's Serum, YAHOO! NEWS, Dec. 7, 2022, https://news.yahoo.com/life-ftx-solana-defi-starting-223848156.html.

A Hedge Fund Hit by FTX Collapse Defaults on \$36 Million of Debt, BLOOMBERG, Dec. 6, 2022, https://www.bloomberg.com/news/articles/2022-12-06/crypto-fund-orthogonal-defaults-on-36-million-debt-as-ftx-contagion-spreads?utm_source=website&utm_medium=share&utm_campaign=copy.

participants, it remains a complex challenge to proactively identify participants and their potential interlinkages and concentration risks.

BUSD Minting Cessation

Event Summary:

On February 13, 2023, the New York State Department of Financial Services (NYDFS) ordered Paxos Trust Company (Paxos) to cease minting Paxos-issued Binance USD ("BUSD").⁶⁸ In response, Paxos informed its customers of its intent to end its relationship with Binance for BUSD.⁶⁹ Prior to the NYDFS cease-minting order, Paxos had been authorized by NYDFS since September 2019 to offer BUSD subject to the conditions that all Paxos-minted BUSD on the Ethereum blockchain be backed by cash, short term treasuries, and other highly liquid investments on a 1:1 basis as well as be subject to other regulatory requirements.⁷⁰ NYDFS stated that all US residents who own Paxos-minted BUSD could still exchange BUSD at a 1:1 rate for US dollars even after the cease-minting order. NYDFS also stated that its prior approval order to Paxos authorized only BUSD on the Ethereum blockchain, noting it had not authorized the Binance-Peg BUSD, a wrapped version of BUSD, purportedly designed to track the value of BUSD at a 1:1 ratio.⁷¹ Approximately one month later on March 13, 2023, the CEO of Binance announced that Binance was converting \$1 billion of BUSD to BTC, ETH and BNB (the "exchange token" of the Binance platform).

Impact to DeFi Market:

Concurrent to the February 13, 2023, announcements by NYDFS and Paxos, the reported total TVL across DeFi rose by approximately 7% over a three day period ending on February 16, 2023, from approximately \$46 billion to more than \$49 billion, the highest level since the first week of November 2022, shortly before the collapse of FTX. Simultaneously, investors reportedly withdrew approximately \$2.3 billion worth of BUSD from Binance within four days of the NYDFS announcement.

The NYDFS supervisory action relating to BUSD may have impacted the willingness of certain DeFi market participants to use BUSD. Participants in Curve's busdv2 liquidity pool exchanged BUSD for the two other pool components, USDT and DAI,⁷² to such an extent

⁶⁸ See https://www.dfs.ny.gov/consumers/alerts/Paxos and Binance.

See https://paxos.com/2023/02/13/paxos-will-halt-minting-new-busd-tokens/.

⁷⁰ See https://www.dfs.ny.gov/reports_and_publications/press_releases/prigogo51.

See https://www.binance.com/en/blog/ecosystem/understanding-busd-and-binancepeg-busd-5526464425033159282.

DAI purports to be a crypto-asset-collateralized stablecoin pegged to USD that is maintained and regulated by MakerDAO. *See* https://makerdao.com/whitepaper/DaiDec17WP.pdf.

that on February 14, 2023, 81% of the assets in busdv2 were BUSD.73 Market participants reportedly experienced intense selling pressure and price slippage.74 Both centralized exchanges⁷⁵ and DeFi protocols⁷⁶ reportedly limited the use of BUSD. The impact of these actions by NYDFS and Paxos illustrate, among other things, certain risks of stablecoins. In this particular instance, for example, Binance reportedly was minting BUSD on a non-Ethereum blockchain without consistently maintaining a 1:1 reserve rate. These events also illustrate how investors may tend to migrate assets from a centralized platform to DeFi when they lose confidence in the centralized platform, how investors may tend to avoid crypto-assets against which regulatory or supervisory actions have been commenced, the high impact certain events can have on liquidity and transaction fees on DeFi platforms, and the ability of purported "decentralized" DeFi platforms to freeze or restrict certain products or assets when certain risks arise.

USDC Depeg

Event Summary:

In 2023, the failure of a US regional bank that offered deposit services to a stablecoin issuer contributed to a temporary de-pegging of its stablecoin because of uncertainty about the issuer's access to its deposits.77

73 Omkar Godbole, Investors Rush to Tether as Paxos' BUSD Faces Regulatory Heat, Curve Liquidity Pools Show, COINDESK (Feb. 14, 2023, 7:29 am), https://www.coindesk.com/markets/2023/02/14/investors-rush-to-tether-as-paxos-busd-facesregulatory-heat-curve-liquidity-pools-show/?ref=biztoc.com.

- See, e.g., Tiny Cat (@insigocelot), TWITTER (Feb. 13, 2023, 7:57 AM), 74 https://twitter.com/insigocelot/status/1625116840782442498 ("And just like that defi exit liquidity for BUSD was gone. Only significant remaining pool of BUSD liquidity remaining is on Pancake Swap. All stable pools on Ethereum thoroughly dumped. A \$1,000,000 sale of BUSD on Uni now subject to 35%+ slippage."); @Mr. Kazoo Bitcoin, TWITTER (Feb. 14, 2023, 4:52 AM), https://twitter.com/MrKazooBitcoin/status/1625432771660500992 ("You need to pay +\$30 to buy 1 sBTC on #BUSD market, the slippage is real (2)").
- 75 Oliver Knight, Coinbase Officially Suspends Binance USD Stablecoin Trading, COINDESK (Updated May 9, 2023, 12:10 am), https://www.coindesk.com/business/2023/03/13/coinbase-officiallysuspends-binance-usd-stablecointrading/#:~:text=Cryptocurrency%20exchange%20Coinbase%20(COIN)%20has,Brian%20Armstron g%2ociting%2oliquidity%2oconcerns.
- 76 Samuel Haig, Aave and Maker Pull Back From Paxos Stablecoins, THE DEFIANT, Feb. 21, 2023, https://thedefiant.io/aave-and-maker-pull-back-from-paxos-stablecoins.
- 77 See FSB, GLOBAL REGULATORY FRAMEWORK FOR CRYPTO-ASSET ACTIVITIES 4 (July 2023) available at, https://www.fsb.org/2023/07/fsb-global-regulatory-framework-for-crypto-asset-activities/; CIRCLE, USDC RESERVE REPORT (Jan. 2023), available at https://www.circle.com/hubfs/USDCAttestationReports/2023%20USDC Circle%20Examination%2 oReport%20January%202023.pdf.

Source: CoinGecko

Impact to DeFi Market:

Given the common use of stablecoins as one leg of a trading pair in many DeFi protocols, USDC's depeg had systemic impacts across DeFi. DeFi pools such as Curve's 3pool (where each crypto-asset typically represents 33% of the pool's value) experienced an initial flight from USDC.⁷⁸ Tether (USDT) gained notable inflows following the 3pool USDC flight.⁷⁹

In the wake of these events, a number of DeFi projects made or passed governance or DAO proposals to address USDC risk. For example, MakerDAO launched an emergency proposal

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See Danny Nelson, DeFi Protocol Curve's \$500M Stablecoin Pool Hammered as traders Flee USDC, COINDESK (Updated May 9, 2023, 10:10am), https://www.coindesk.com/business/2023/03/10/defi-protocol-curves-500m-stablecoin-pool-hammered-as-traders-flee-usdc/.

Krisztian Sandor, *USDC Outflows Surpass \$10B as Tether's Stablecoin Dominance Reaches 22-Month High*, COINDESK (Updated Mar. 30, 2023, 3:55 pm), https://www.coindesk.com/markets/2023/03/29/usdc-outflows-surpass-10b-as-tethers-stablecoindominance-reaches-22-month-high/.

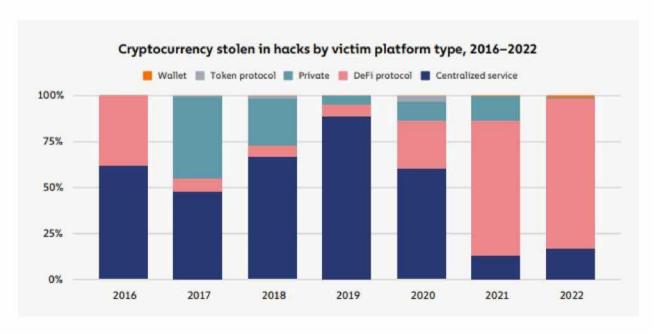
to change its risk parameters to reduce exposure to USDC.⁸⁰ This proposal appears to have been proposed and passed in roughly eight hours. The USDC depeg illustrates, among other things, interconnectedness between fiat-based stablecoins and the banking sector and the existence of contagion channels between TradFi and DeFi. The USDC depeg also illustrates the risks to participants using stablecoins as collateral in DeFi arrangements. The events also suggest that DeFi participants use elevated rights and exceptions to stated governance processes in DeFi to respond to events that cause market stress or increase risks to a DeFi arrangement or activity.

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See https://cointelegraph.com/news/maker-dao-files-emergency-proposal-addressing-3-1b-usdc-exposure; https://forum.makerdao.com/t/emergency-proposal-risk-and-governance-parameter-changes-11-march-2023/20125.

ANNEX B – DEFI EXPLOITS, ATTACKS AND ILLICIT USES

The DeFi markets, like other financial markets, are a target for hackers and attackers, including those that seek to exploit vulnerabilities to misappropriate funds and data. This section describes various attacks and specifically highlights flash loan- and Maximal Extractable Value (MEV)-enabled attacks. According to one blockchain analytics firm, attacks on DeFi protocols accounted for 82.1% of all crypto-assets stolen by hackers in 2022— a total of \$3.1 billion — up from 73.3% in 2021. Of that \$3.1 billion, 64% was attributable to attacks on cross-chain bridges. Another blockchain analytics firm reported that nine of the ten largest attacks occurred against DeFi projects, and that hacks on such projects resulted in an average of more than \$20 million stolen per incident. A



Source: Chainalysis - The 2023 Crypto Crime Report

A blockchain analytics firm reports that among the most prolific hacker groups are those associated with North Korea. Reportedly, the North Korea-linked Lazarus Group stole an estimated \$1.7 billion worth of crypto-assets in 2022, and North Korea-linked hackers have stolen \$1.1 billion in crypto-assets through hacks of DeFi protocols. The report

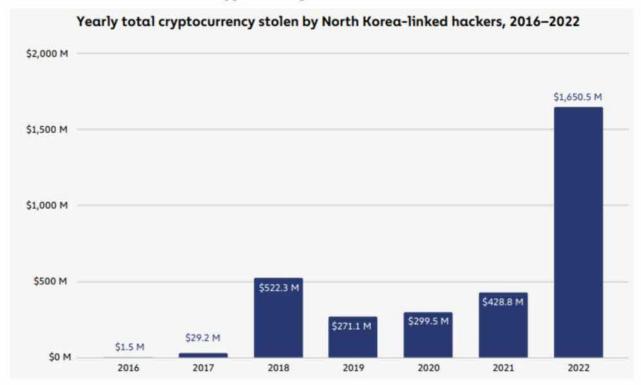
This section does not cover market manipulation and outright scams. See, e.g., IOSCO, RETAIL MARKET CONDUCT TASK FORCE FINAL REPORT (Mar. 2023), available at https://www.iosco.org/library/pubdocs/pdf/IOSCOPD730.pdf. Each of these, however, is a significant source of risk.

⁸² CHAINALYSIS, supra note 21.

⁸³ TRM, *supra* note 22, at 32.

⁸⁴ *Id.* at 52.

concludes that the funds are laundered through DeFi protocols in order to convert stolen crypto-assets into more liquid or less volatile assets before eventually being converted to fiat currencies at centralized crypto-asset platforms.⁸⁵



Source: Chainalysis - The 2023 Crypto Crime Report

Common Types of Exploits/Attacks

Common types of exploits and attacks observed in DeFi are discussed below. Of note, most attacks have exploited one or more features of DLT-based systems, namely:

- Public, open-source code, which makes it possible for threat actors to study a protocol's smart contracts and test how it may be exploited;
- DeFi governance structures;
- Private keys, which in some cases can control significant functionality of a smart contract through elevated or administrative functions that allow any holder of those keys to commandeer crypto-assets. Private keys are susceptible to compromise through common cyberattacks, such as phishing, key logging or social engineering;
- Permissionless access, which makes it possible for anyone with the necessary technical skills to interact with any protocols of their choice; and
- The fact that code is often copied and used in multiple protocols, which can exacerbate an attack as it can be carried out across multiple protocols.

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⁸⁵ CHAINALYSIS, supra note 21.

Exploits and attacks in DeFi target vulnerabilities inherent to DeFi arrangements, such as smart contract code or dependencies on critical infrastructure (e.g., oracles, bridges). Threat actors investigate publicly accessible code, and also use tools and techniques such as flash loans and MEV to effectuate an attack. The following discusses vulnerability-related targets for exploits and tools used to carry out attacks.

Smart Contract-Related

Case 1:24-cv-01858-ACR

Smart contracts are code that is deployed on a blockchain or DLT-based system and form the major building blocks of DeFi protocols. Just as with other software, smart contracts are susceptible to code errors and vulnerabilities, and have proven a major attack vector for DeFi exploits. What are often seen as features of smart contracts (e.g., the fact that they can be self-executing, immutable, composable, and can be publicly inspected) also can translate to vulnerabilities in terms of an attack vector.

One major type of exploit relates to access control, which involves using a smart contract's private key(s) to alter the smart contract in some way. With access to a private key that can sign elevated administrative functions in a smart contract, an attacker could, for example, create, destroy, or transfer tokens, pause functionality, manipulate data, and change or disrupt the way the smart contract operates. One report notes that of the \$1.4 billion stolen through code exploits in 2022, 90% occurred through "authentication issues, improper validation, and signature verification issues."

Another exploit relates to a smart contract's inability to process data that is outside the range it is able to process (referred to as "integer overflow/underflow"), which may lead to unintended or unexpected outcomes. Smart contracts also are susceptible to "reentrancy attacks," which occur when an attacker can trigger a function on a particular smart contract repeatedly before the smart contract can finish executing the first triggering event of the function, creating a type of loop that allows for multiple executions of a command. This type of attack can result in an attacker withdrawing funds from a smart contract before the smart contract can update a ledger that tracks the allocation of those funds.

Governance-Related

Certain DeFi projects claim or aim to be governed by a community through, for example, the use of governance or voting tokens (see <u>ANNEX D</u>). Governance-related exploits aim to abuse the decision-making process (e.g., by amassing a majority of governance

Private keys enable the signing of transactions in blockchain and DLT-based systems. These transactions can enable the transfer of crypto-assets, execution of smart contract functions or onchain operations such as block proposals or approvals. Private key operational security is critical to prevent private keys from being stolen by malicious actors. While industry-standards for private key security best-practices are lacking, various methods for storing private keys exist, including, but not limited to, written on paper, stored in a local note application, stored on a hardware wallet or distributed by multi party computation (MPC). These methods commonly trade off security for ease of use and access. Bad actors use various schemes to steal private keys, including phishing and social engineering, to acquire access to machines or systems to extract the private keys of investors or DeFi protocol developers.

⁸⁷ TRM, *supra* note 22, at 32.

tokens/voting power) to implement changes or actions to the attacker's own benefit and against the general community interest (e.g., by requesting and executing a transfer of funds to the attacker's wallet). An attack on governance mechanisms can be facilitated through other types of attacks, e.g., by exploiting smart contract vulnerabilities, including through the use of a flash-loan attack.

Infrastructure-Related

Infrastructure components in DeFi are fundamental auxiliaries that can impact transaction processing, composability and other capabilities. Critical infrastructure components include oracles and bridges, which provide mechanisms for a multiplicity of data sources off-chain and cross-chain (from other DLT networks) to be utilized and relied upon to provide DeFi products and services in an originating DLT network (which is inherently siloed). Without the bi-directional movement of data between off-chain and cross-chain components, smart contracts that determine the parameters of a DeFi activity are limited to the data held on the originating DLT network. Attacks on these infrastructure components can occur from vulnerabilities that include low quality data collection and aggregation methodologies, reliance on a single point of failure, and the lack of an ability to dynamically reflect changes in reference data.

Tool: Flash Loans

Flash loans are used to borrow and repay crypto-assets in a single block recorded on a blockchain. They are a feature of DeFi that allow users to borrow assets with no collateral requirements, no credit checks, and no borrowing limits (except as based on the amount made available for borrowing by liquidity providers). This is possible because of atomicity, a feature of blockchains in which actions are either executed collectively in sequence in one block or fail collectively and absolutely. A flash loan is only valid within the transaction (within a block), which reverts to the pre-transaction state with no loss to the borrower (or lender) if they are unable to repay the loan within the same block.⁸⁸

Flash loan attacks occur when an attacker borrows funds, uses them to effectuate a manipulative transaction, and repays the borrowed funds - all in one block. These attacks are popular because they require less upfront capital, provide large loan sizes, and are permissionless to execute. In addition, it is often difficult to identify malicious flash loan attackers due to the pseudonymity of blockchain addresses.

Flash loan exploits have been used to attack DeFi protocols in a number of ways. One involves an attack to exploit a smart contract vulnerability, permitting an attacker to drain funds from a smart contract. Another involves a "pump attack" that capitalizes on market inefficiencies and fragmentation. In DeFi markets, there is no industry agreed upon

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Arbitrage is a popular use case of flash loans as it allows traders to benefit from price differences across various exchanges. For instance, if token X is \$10 on DEX A and \$12 on DEX B, a user can use a flash loan to (1) borrow \$10,000 worth of crypto-assets; (2) buy 1,000 token X for \$10,000 at DEX A; (3) sell 1,000 token X for \$12,000 at DEX B; and (4) pay back the \$10,000 loan. However, this series of transactions must all occur in one block. In this scenario, the user will benefit by \$2,000 minus fees. If, however, the user could not execute any one of the steps, or pay the fees, all of the steps in the transaction would fail.

centralized pricing source, and prices reported by centralized crypto-asset platforms may or may not be accurate, may be stale, or may not include pricing data from over-thecounter (OTC) markets. As a result, the same crypto-asset can be traded at different prices across different venues. In a pump attack, the attacker manipulates the relative price of two assets, for example, in a DEX liquidity pool and arbitrages away this price difference. Another flash loan related attack involves the manipulation of oracles. Oracles are infrastructure components that provide off-chain data, such as data from websites or APIs to on-chain smart contracts. Oracle manipulation in a flash loan context works similarly to a pump attack. In this case, the attacker may use funds from a flash loan to manipulate the price of a crypto-asset trading on a venue that is a reference for an oracle network (e.g., by adjusting the relative price of the two assets in the DEX-based liquidity pool or by conducting manipulative trades on a centralized crypto-asset trading platform) and the manipulated price is broadcasted across the oracle network to a DeFi protocol. The smart contracts using the manipulated price information cannot detect an anomaly and therefore continue to operate on the manipulated price information. The most high-profile oracle manipulations have often used flash loans; however, oracles may be manipulated through other means (e.g., flaws in the oracle's code). One blockchain analytics firm reported that more than 50% of the total amount stolen from attacks on DeFi protocols resulted from price manipulation techniques, such as those using oracle manipulation and flash loans.⁸⁹

Tool: MEV Strategies

A developing area in DeFi involves what is known as MEV. MEV strategies encompass any strategy to capture or extract value from the ordering and inclusion of blockchain transactions, and can refer to value taken through arbitrage,90 liquidation91 and the payment of gas fees.⁹² MEV strategies also refer to the exploitation of mempool data⁹³ that

⁸⁹ TRM, supra note 22, at 32.

⁹⁰ One type of MEV opportunity occurs through arbitrage. In the case that two crypto-asset platforms are trading a particular token at different prices, arbitragers can purchase the token on the platform with the lower price and sell it on the platform with the higher price. Some arbitragers use complex algorithms that identify profitable opportunities as quickly as possible. The concept of arbitrage is a profit-making strategy in traditional financial markets and is considered a part of efficient market dynamics.

⁹¹ Another type of MEV opportunity occurs through liquidations of loans in DeFi lending/borrowing protocols that fall below their minimum collateral requirement. Typically, such protocols are overcollateralized, i.e., borrowers must post more collateral than they are borrowing. If the loan-to-value ratio exceeds the set limit, a market participant may close out the loan, taking the collateral. Participants can run specialized algorithms to monitor a network for transactions presenting liquidation opportunities and be the first to liquidate a loan. Liquidators can extract MEV from borrowers by liquidating a borrower's loan before the borrower can repay, then profit by selling the borrower's collateral.

⁹² Another type of MEV opportunity is in the receipt of gas fees, or fees paid to miners/validators to process transactions.

⁹³ The mempool consists of transactions that are awaiting processing by the blockchain's miners/validators.

allows persons analyzing the mempool to maximize the profit they can make by the choice and sequencing of transactions to be proposed in a block to be appended to a blockchain. The most common exploitative strategies involving MEV occur when participants with visibility into pending transactions in the mempool can use that information to transact in a way that benefits themselves at the expense of the participants to the pending transaction. Variations of this strategy have been referred to as front running,"94 "backrunning"95 and "sandwich attacks."96 Such conduct in traditional markets would be classified as market manipulation.

While there is the potential for MEV strategies on various blockchains, the following descriptions are focused on MEV strategies relating to Ethereum (including through the use of applicable "MEV Boosting Software"). The key players currently are:

- Developers: establish a protocol, creating potential for MEV opportunities, or create software tools, such as MEV Boosting Software, to extract MEV.
- Validators: determine which transactions pending in a mempool to include in blocks and in what order. Typically, a validator will decide to order the block with the highest gas fee paid at the front and order in this way until the block is complete.
- **Searchers:** seek to identify and capture MEV opportunities, often through the use of complex algorithms called bots. Typically, searchers will pay higher gas prices to place their transactions at specific positions within a block. Some validators could have agreements with searchers to effectuate the searcher's MEV strategies in exchange for a portion of the MEV captured.

Front-running occurs when a participant observes a pending transaction that is likely to impact the market in a particular way. The participant will propose a transaction based on that information and attempt to have it execute prior to the pending transaction. A miner/validator could execute this attack through re-ordering of transactions on a proposed block; a searcher might attempt to pay a higher gas fee or collude with a miner/validator to move the transaction ahead of the pending transaction. One study calculates losses due to frontrunning attacks between May 2020 and April 2021 to have amounted to more than \$100 million USD. See Agostino Capponi et al., Inefficiencies in Public Distributed Ledgers (Dec. 31, 2021), available at https://papers.ssrn.com/sol3/papers.cfm?abstract_id=3997796.

95 Back-running occurs when a participant orders their transaction to be executed immediately after a pending transaction. This type of attack might be profitable, for example, if the pending transaction is to create a new pair for trading on an automated market maker (AMM). An attacker can employ back-running bots to monitor the mempool for new token pair listings or liquidity pools created on decentralized exchanges. When a bot finds a new token pair listing, it can place a transaction order immediately after the initial liquidity and buy as many tokens as possible, leaving only a small amount for other traders to buy later. The bot can then wait for the price to go up after other traders have purchased the tokens and sell at a higher price for a profit.

A sandwich attack occurs when a participant places two transactions, one before and another right after a pending transaction. Searchers typically use sandwich attacks to extract MEV from unsuspecting traders on decentralized exchanges by manipulating the price of an asset. For example, a trader can identify a token a victim is about to buy and make a trade to push the price up, then sell the token immediately after the victim's buy order has further increased the price.

- Block Builders: construct blocks from proposed transactions. This is done by running algorithms and simulations to order the bundles of transactions in a block template that maximizes profit. Builders then bid for and buy the validators' blockspace, facilitated by one or more relays, so their execution payloads are proposed to the blockchain.
- Relays: facilitate communication interfaces that aggregate blocks from builders to provide the most profitable block to proposers for validation.
- Proposers: a validator that has been randomly selected amongst all the validators to build a block for a given slot. Proposers may pay block builders if their proposed block is appended to the blockchain.
- **Impacted Users**: engage in transactions on a blockchain whose execution is affected by MEV strategies.
- MEV Boosting Software: seeks to maximize MEV opportunities for miners/validators.

MEV strategies are evolving, and more skilled participants, or those who collude with others, may be gaining more income from MEV strategies. This dynamic may lead to increasing concentration effects as those participants can gain more control over the network. The switch from Ethereum PoW to PoS97 resulted in changes to the MEV space including, but not limited to, a terminology change from "Miner Extractable Value" to "Maximal Extractable Value," an increase in MEV rewards in proportion to block rewards, and a change to the entities in the MEV supply chain (such as validators taking the place of miners). This switch may lead to centralizing effects in Ethereum PoS due to reduced constraints on hardware requirements and natural pooling of ETH at entities such as centralized trading platforms who dedicate resources to sophisticated MEV strategies and create economies of scale.

As Ethereum blocks are built from transactions, parties who seek to obtain MEV will compete for transactions. These participants can access transactions to locate MEV opportunities in two primary ways - through searching transactions on the blockchain/mempool or through access to exclusive transaction order flow. As users want their transactions to be included in a block, there is the potential for users to submit their transactions through a limited number of operationally sophisticated entities, and

⁹⁷ Proof of Work (PoW) commonly refers to a blockchain consensus mechanism where miners compete to solve cryptographic puzzles in order to earn the ability to add new blocks to the blockchain and receive a reward of newly-minted crypto-assets.

See, e.g., https://ethereum.org/en/developers/docs/consensus-mechanisms/pow/. Proof of Stake (PoS) commonly refers to a blockchain consensus mechanism where validators stake crypto-assets to earn the ability to add new blocks to the blockchain and receive a reward of newly-minted cryptoassets. A validator's stake can be reduced (or 'slashed') through behavior harmful to a blockchain. See https://ethereum.org/en/developers/docs/consensus-mechanisms/pos.

validators with a high inclusion rate of transactions are more likely to obtain transaction order flow.

Dominant validators with sophisticated resources to develop MEV strategies are potentially able to propose the most blocks on the network and extract the most MEV, providing outsized rewards compared to validators with less sophisticated or no MEV strategies. This could enable validators providing staking as a service (SaaS) to offer higher returns to customers, potentially attracting more customers to deploy more validator nodes and increase dominance on and centralization of the network. Solo-staking validators could also earn more rewards from the addition of sophisticated MEV strategies to their validation operations. In both hypothetical examples, sophisticated MEV strategies could result in more rewards earned that can then be staked to control more validators on the network thus potentially increasing centralization risk.

These dynamics could lead to market concentration and, as is the case with other concentrated markets, could give a limited number of entities the potential to extract higher profits from users and to behave in other non-competitive manners such as collusion or censorship of certain transactions.

To address this potential centralization issue, core developers in the Ethereum 2.0 network reportedly have proposed a "proposer-builder separation" (PBS), such that a separate group of participants called "block builders" will build a block of transactions and a separate group of participants will accept the block without knowing the contents of any block until after it is selected. With PBS, block builders presumably would accept transactions from users and searchers, entities who submit groups ("bundles") of transactions in a specific order to builders and compete to build the most profitable blocks possible from those transactions. Block builders would then send blocks through intermediaries known as relayers to block proposers who would simply pick the highest-bid blocks proposed by block builders and validate the blocks. However, this is merely a proposal and any implementation of PBS into the Ethereum core protocol will likely take time.

As MEV can be extracted based on ordering of transactions in a block, current attempts to minimize MEV opportunities center around increasing opacity in the transaction order, either through anonymizing transactions, through batch auction, private mempools and other market structure changes. There have been reported efforts to "democratize" MEV operations though open-source software to lower the entry to MEV operations and apply the PBS concept outside of the core Ethereum protocol.

ANNEX C – DATA GAPS AND CHALLENGES

Accurate and complete data is critical to the understanding of any financial ecosystem. Specifically, regulators rely on data to monitor a financial ecosystem and its participants, to flag abnormalities and trends, and to investigate non-compliance and illegal activity.

The data needs of regulators and supervisors span many dimensions of the DeFi ecosystem. These dimensions include:

- Transaction-level data: Transaction-level data between and among all participants, including smart contracts.
- Protocol-level data: Smart contract addresses and underlying code, as well as URLs and programming of user interfaces.
- Participant data: Data concerning key participants, including software developers, large investors (e.g., whales, VCs, institutional investors, etc.), and governance/voting token holders.⁹⁸
- Oracles and other DeFi Infrastructure: The function, inputs and vulnerabilities of infrastructure, including layer 1 blockchains, layer 2 networks, oracles, bridges, etc.

Available data

As highlighted in the 2022 Report and in this report, the provision of DeFi products and services typically involves on-chain and off-chain activities. Therefore, data relevant to DeFi are located on-chain and off-chain, as well. To the extent data is on-chain, it requires tools and expertise to interpret and may not be in human-readable format. To the extent data is off-chain, it could be inaccessible. Even if off-chain data is made available through, for example, a website or API, the data likely is not audited or otherwise verified, and may be unreliable.

Two key metrics derived from on-chain data are commonly associated with DeFi:

- Aggregate flow statistics, which allow analysts to gauge the interest market participants may have in a protocol. Flow data can be aggregated either within one blockchain to determine the preeminence of a protocol within a given blockchain, or across all blockchains in order to determine the protocol's importance in the overall DeFi ecosystem. Flow statistics can be derived by looking at changes in values that are originally derived from a blockchain's publicly available data. Alternatively, some protocols contribute statistics and data to various aggregators and/or dashboards.
- Total Value Locked (TVL), reportedly representing the accumulated deposits by protocol users.

Specific data on institutional investor participation could improve the measurement and understanding of the interconnection risks.

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However, these metrics, though commonly used, lack standardisation and should be scrutinized in terms of the information they convey. In the case of TVL for example, certain types of protocols (e.g., liquidity pools, bridges, etc.) use locked value to mint new derivative, synthetic or wrapped tokens, which can themselves be deposited in other DeFi applications. This feature of DeFi has sometimes been referred to as re-hypothecation and may result in a crypto-asset and its derivative, synthetic, or wrapped version being counted multiple times for TVL purposes (often called double-counting.)99 It is also important to note that TVL values fluctuate with the underlying market values of the crypto-assets on which they are based. Aggregate flow data tends to be based on TVL data (e.g., changes in TVL for a given protocol), so this data has similar shortcomings as TVL data. In addition, protocol-contributed data, such as TVL, can be inaccurate for other reasons, and it is not always validated against blockchain activity.

A recent BIS report noted three types of metrics that authorities can monitor to assess risks in DeFi: (1) indicators that gauge the overall size and evolution of the sector; (2) indicators designed to assess financial vulnerabilities; and (3) indicators that gauge the potential for spillovers by tracking and assessing interconnections between DeFi, Centralized Finance (CeFi), traditional finance and the real economy. 100

Some metrics that may be useful for analyzing any particular DeFi protocol are:

- TVL
- aggregate flow
- market value of a protocol (measured by the number of outstanding tokens multiplied by the market value of the token -- sometimes referred to as "market capitalization")
- number of users
- governance structure and operation
- linkages with other entities (i.e., blockchains, bridges, oracles, etc.)
- multi-sig thresholds for changing smart contracts
- numbers of pairs traded, number of trades, liquidity flows in/out, market share by volume (for DEXs)
- lend/borrow amounts and rates, repayments, liquidations, deposits and withdrawals, liquidation thresholds (for lending/borrowing protocols)
- offered yields (for aggregators or liquid staking providers)
- hacks/operational issues

Certain TVL data providers claim to be able to identify funds that are used multiple times and offer 99 "clean" TVL metrics.

BIS, THE CRYPTO ECOSYSTEM: KEY ELEMENTS AND RISKS 17-18 (July 2023), https://www.bis.org/publ/othp72.pdf.

- links to addresses known to have received funds from or used funds for illicit activities
- total value of crypto-assets received from illicit addresses
- links to fraud reports
- VC and other early investors

Some metrics that may be useful for analyzing any particular blockchain are:

- **TVL**
- aggregate flow
- governance structure and operation
- number of validators or miner nodes
- number of unique addresses on a blockchain
- number of active addresses on a blockchain
- number of transactions
- number and types of smart contracts/protocols
- hacks/operational issues
- links to fraud reports
- developer activity/growth
- gas prices/transaction fees
- MEV opportunities and dynamics
- VC and other early investors

Some metrics that may be useful for analyzing the DeFi market more broadly are:

- Retail investor participation
- TVL per protocol type (i.e., DEX, lending/borrowing, aggregator)
- aggregate flow per protocol type (i.e., DEX, lending/borrowing, aggregator)
- interest in crypto-assets over time based on web searches (media coverage)
- Demographic/geographic ownership of crypto-assets
- Market concentration (e.g., using Herfindahl-Hirschman Index¹⁰¹)
- Interest rates offered in DeFi
- Market prices and volatility
- Open crypto-asset derivative positions, long and short

¹⁰¹ Herfindahl-Hirschman Index (HHI) is a measure of market concentration. It can be used to determine the relative concentration of market share in a given market. See U.S. DEPT OF JUST., HERFINDAHL-HIRSCHMAN INDEX, https://www.justice.gov/atr/herfindahl-hirschman-index.

- Stablecoin metrics
- Interconnectedness, through metrics on blockchains, protocols, oracles, bridges, etc.
- VC and other early investors

When using any of the metrics above, it is important to keep in mind that the metric may be based on industry reported, unverified data; nevertheless, the metric may be useful in a relative sense or for monitoring purposes, absent the availability of verifiable data sources. Metrics such as these, for example, can be used to rank activities in terms of their usership and growth and can help regulators begin to construct a picture of what is happening in DeFi. This information could help regulators decide how to allocate resources for potential regulatory action.

Data Gaps

Despite that there are DeFi data providers and analytical tools, some of which are open source, there are significant data elements that are not publicly available. The inaccessibility of relevant data increases the challenges to market surveillance and reduces the ability to monitor activity. For example, ownership concentrations of governance tokens may only be partially visible on-chain, as significant amounts may be held by a centralized crypto-asset platform in an omnibus wallet address. communication and coordination for project governance often takes place on social media, and typically only individuals granted access to the relevant chat groups can observe relevant discussions. The financial resources of a DAO or DeFi protocol can be opaque, for example, part of the resources could appear on-chain, and part could be held off-chain. Fund transfers relating to DeFi activity can take place on private networks. These transfers can occur between DeFi and other crypto-asset market participants and can involve both fiat currencies as well as crypto-assets for the transfer of value. Increasing the ability of regulators to decipher on-chain data and to have access to off-chain data can provide for a more holistic view of a DeFi arrangement or activity, including its interconnectedness with other market participants and activities.

- Lack of Financial Reporting: DeFi protocols typically do not publish formal or informal financial data, nor do they typically engage auditors to opine on their operations or internal controls.
- Lack of Broad Market Data: DeFi does not have a self-regulatory organization that collects, compiles and disseminates data across protocol types.
- Failure to Register/License: Because DeFi protocols generally have not registered or licensed as exchanges, brokers, dealers, hedge funds, swap dealers, asset managers, or other regulated entities, the protocols may be in noncompliance with requirements that would facilitate regulators' ongoing oversight activities that include understanding and scoping the entirety of a protocol's operations. Jurisdictions maintain data sets for entities subject to regulation for particular activities.

Data Providers

Data providers for crypto-asset related data are highly specialized, fragmented in what they offer, and can be expensive. Providers tend to cover different data sets and analyze different aspects of the data. For example, some cover various blockchains and/or crypto-assets. Some focus on transaction analysis on particular blockchains and provide, for example, risk-scoring of entities for AML purposes. Others focus on smart contracts and potential vulnerability analysis. Still others offer more traditional financial data and research, such as pricing, research, and market trends. In addition to vendors, DeFi data can also be accessed through a variety of online interfaces. Use of these tools can require specialized training and significant resources and cost. Accordingly, it may be difficult and costly to arrange comprehensive coverage across the entire DeFi market. It is also important to assess where a particular vendor sources its data to evaluate whether there are risks that the underlying data is incomplete or inaccurate. The following table identifies some, but not all, data needs and potential gaps/challenges for illustrative purposes.

Table: Data Needs and Gaps

Layer	Potential Use	Data Needs	Data	Potential
	Cases for		Availability	Gaps/Challenges
	Regulators			
Settlement	Assessing	Blockchain	On-chain data;	On-chain data is
Layer	compliance	transactional	node peers,	voluminous, can be
(including	with applicable	data; mempool	client	difficult to interpret,
blockchains	laws and	data	distribution, IP	and requires
and Layer 2	regulations;		addresses;	specialized skills and
solutions)	analyzing		mempool data;	significant
	consensus		MEV data;	infrastructure costs;
	mechanisms		online	mempool data may
	and activities;		blockchain	not be available, is
	analyzing		explorers and	unique to individual
	transactions		other data	nodes, and complex to
	and		analytics	analyze; transactional
	transactional		providers	information is
	dynamics;		1.0%	pseudonymous and
	analyzing MEV			can be anonymity
	activities			enhanced
Asset layer	Assessing	See above;	See above;	See above; there is no
(including	compliance	smart contract	GitHub/GitLab	assurance that the
tokens)	with applicable	code	(central	information available
	laws and	concerning	repositories for	on GitHub/GitLab or
	regulations;	tokens	code underlying	through blockchain
	Analyzing token		many smart	explorers reflects what
	creation,		contracts);	occurs on-chain;
	issuance,		market data	source code is not
	distribution,		from DeFi	always publicly

10	8	9		
	and functionality; monitoring fund flows, including proceeds of illicit activity		protocols and off-chain centralized crypto asset platforms; social media and other off-chain sources	available; Market data is not always audited, data standards and aggregation methods are fragmented and lacking
Smart contract layer (including DeFi protocols, DAOs and bridges)	Assessing compliance with applicable laws and regulations; assessing functionality, governance, and vulnerabilities; monitoring systemic importance and interlinkages	See above; smart contract code and other data concerning DeFi protocols	See above; smart contract analysis and assessment tools; governance voting websites; Market data for DeFi protocols, DAOs and bridges assets under management	See above; reading and analysing smart contracts requires a specialized skillset
Application Layer (including user interfaces, websites, aggregators)	Assessing compliance with applicable laws and regulations; monitoring sector developments and growth	See above; website, web extension, or mobile/desktop application of a given user interface or aggregator; information on parties maintaining the user interface or aggregator; code for optimisation, trading and other algorithms	See above; disclosures; VPN blockers; user traffic; integrations with other platforms	See above; the underlying on-chain smart contracts and functionality could be obfuscated

ANNEX D – DEFI GOVERNANCE

Broadly, governance refers to the actions and processes managing the control and direction of an entity. Governance encompasses a number of elements, including the allocation of authority, both legal and operational; the ways that authority can be, and is, exercised; and the broader set of practices, policies and procedures by which an entity is organized and administered. An entity's governance structure dictates the mechanism through which decisions are made, directions are given, and ultimately, how control and influence are exercised within the entity.

Blockchain "Layer 1" Governance

Case 1:24-cv-01858-ACR

Governance of the settlement layer (layer 1) of a typical blockchain typically occurs both on-chain and off-chain. For major blockchains today, core developers usually put forth a proposal for debate, largely through an informal process using off-chain social media-based communications among core stakeholders, including protocol developers, node operators and validators. Core developers may consider input from other stakeholders and the proposal may evolve until the core developers propose a final implementation. At that point, adoption of a change to the core protocol of a blockchain will depend upon a majority of validators choosing which version of the core protocol they will run.¹⁰²

This process suggests several observations. First, it is the developers who must code any agreed proposal for it to be implemented. Thus, protocol developers may have outsized influence relative to other stakeholders in the final form any such proposal takes. It is also the case that users and other stakeholders may have limited access to all the information regarding a proposal including its underlying code. Also, whether and to what extent the final outcome is adopted is decided ultimately by the network validators, who determine which version of a layer 1 core protocol to participate in. To the extent that there is disagreement about adoption of a core protocol change, a hard fork may result in a split of participants continuing to transact on two separate networks. Control of validator nodes can be significantly concentrated in major blockchains. This may result in de facto control of a layer 1 blockchain by a small group, i.e., core developers and validators.

Decentralization is a term that can describe various aspects of a DeFi arrangement or activity, such as ownership of an enterprise providing a product or service, voting power over the enterprise or any aspect of it, control of user or investor assets, network design of an underlying blockchain (settlement layer), or off-chain infrastructure such as web servers that provide application components, among others. There is no agreed definition (even among industry participants) of what causes an arrangement or activity to be considered

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See ETHEREUM, INTRODUCTION TO ETHEREUM GOVERNANCE, https://ethereum.org/en/governance/ (providing a summary of how governance for the Ethereum network works, including key stakeholders, process steps, and features).

decentralized, such that there is no concentration of ownership, voting power, or control as to the product or service, enterprise or user assets. While those who offer DeFi products or services may claim to be decentralized, most DeFi arrangements may in reality have a significant level of centralization. For example, founders or other participants may retain control or significant influence over aspects of an arrangement or activity. Even as to protocols and smart contracts that are subject to change through votes of governance tokens, ownership and voting control of governance tokens may be concentrated in the hands of a few and therefore they may continue to be controlled by centralized parties. In some cases, those aspects that are up for vote are not ones that relate to the operation of a project at the enterprise level. Most DeFi arrangements and activities today rely on centralization in one or more areas and are decentralized in name only.

It is worth positing that DeFi products and services are a result of the person(s) and entit(ies) that create, offer and maintain them. These persons and entities typically determine from a project's inception how participants are or can be organized, including whether participants will or can organize as a DAO, a foundation, or something else. They also often design ways for participants to influence how certain aspects of a project's protocol will operate in the future, including by giving certain participants the ability to alter smart contracts or other aspects of the project's protocol. These ways can include the use of administrative keys, 103 multi-sig and time-lock mechanisms, 104 code updates, and voting tokens (often referred to as governance tokens). These entities and individuals in most cases establish the fundamental features of the protocol, such as how decisions will be made, who makes those decisions and for what aspects of the project, and who has access to information concerning those decisions. This section explores how novel organizational structures (DAOs) and governance structures (governance/voting tokens) can be analysed for the purpose of determining control or influence. 105

The 2022 Report noted that some DeFi market participants claim that governance is decentralized. DeFi projects may use various mechanisms to distribute governance roles, such as DAOs and governance/voting tokens, in order to provide evidence of decentralization. However, there are many different permutations of governance arrangements and the role they play within an enterprise. The fact that elements of a DeFi

103 Administrative keys refer to cryptographic key information that permits a holder of that key information to make certain changes to a smart contract including, potentially, by permanently disabling the smart contract. Administrative keys effectively can place ultimate control over a smart contract in the hands of the administrative key holder(s).

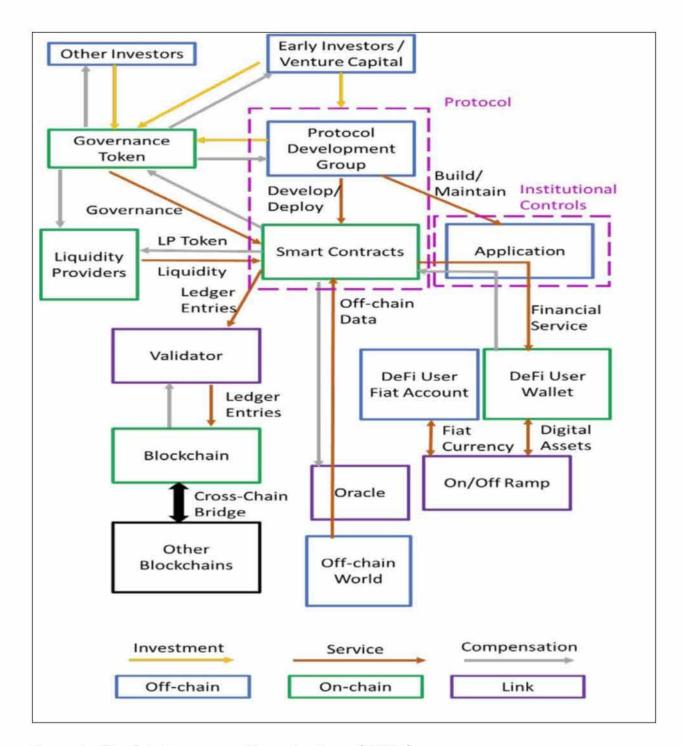
104 Multi-signature ("multi-sig") refers to smart contracts that require a number of holders of cryptographic key information to agree on an action before it takes place, indicating that agreement through using the key information to "sign" a transaction. Some multi-sig mechanisms require unanimous agreement, while others require a given number of a set of participants to agree to the action. Time-lock smart contracts implement delays in executing a function until a given amount of time has passed. Such delays can allow for additional governance activities (such as deliberations) before the action considered in a time-lock contract is performed.

A DAO can, but need not, employ governance or voting tokens. Conversely, a project that uses governance or voting tokens need not be a DAO.

arrangement or activity may be viewed as distributed or subject to community vote does not mean that the arrangement or activity itself is decentralized. As discussed below, governance/voting tokens currently may play a limited role in affecting the substance of smart contracts and play almost no role in managing or overseeing the entity and developers of the smart contracts and protocol at the enterprise level. Furthermore, while DAOs are presented as a solution to community governance, DAOs and their development are still in the nascent stages. Additionally, while a particular DeFi protocol may aim to be resistant to censorship or collusive control, there may still be an ongoing dependency of protocol development and functionality on central actors, such as developers or founders. In DeFi, the issue of governance must be evaluated from both the smart contract or protocol level as well as at the enterprise level. Examining DeFi project's governance structure will typically reveal potential regulatory touchpoints.

Enterprise Level - The Big Picture

The 2022 Report noted that the provision of DeFi products and services relies on the contributions of various stakeholders, each of whom has an important role to play and expects to earn a profit through participation. These stakeholders include the developers and promoters of a DeFi project, investors in the project, users, service providers, and blockchain networks. The 2022 Report includes a detailed discussion of the Big Picture to assist in analyzing DeFi arrangements and activities at the enterprise level. In particular, persons and entities develop and deploy the software and other components through which DeFi operates. These persons and entities often obtain funding for their development efforts from investors in traditional capital raising and via crypto-asset offerings. As protocols are developed, these persons and entities often create a reserve or treasury to hold fiat currencies or crypto-assets for purposes of funding future refinements and development of the protocol. These persons and entities may either control these reserves themselves or may create a different organization to manage the reserve or treasury. The specific organizational forms that develop and deploy protocols and those that are responsible for ongoing activities can vary. Common types include traditional corporate entities, foundations that often hire others to work on the protocol, and DAOs. DAOs are becoming increasingly an organizational choice for DeFi projects. Whatever organizational form a particular DeFi project takes, and whatever tools it may use to carry out its operations, it is important to focus on the DeFi arrangement or Often, this viewpoint will reveal who has control or activity at an enterprise level. sufficient influence over the operations of the enterprise so as to be responsible for its activities. Below is a reproduction of the Big Picture from the 2022 Report, which contains a detailed explanation and breakdown of each component of the Big Picture: capital formation, development and deployment; use and investment; and settlement.



Decentralized Autonomous Organizations (DAOs)

As the 2022 Report explained, some DeFi market participants experiment with new organizational structures in an attempt to achieve more decentralized systems. A DAO is a relatively new type of organizational structure that purportedly focuses on community, as compared to centralized, governance. There is no agreed definition of what constitutes a DAO, even within the industry. DAOs and their structures are evolving. According to one

industry source, as of August 2023, there are more than 25,000 DAOs controlling treasuries worth \$22.5B.106

In brief, a DAO typically is a form of coordination for a group of people who coalesce around common goals. DAOs vary in structure and complexity. They can use smart contracts and other technologies to facilitate a number of processes, such as communicating, coordinating, and incentivizing individuals to act collaboratively.

DAOs may have different legal characterizations depending on the particular jurisdiction. In some jurisdictions, a DAO may be recognized as a unique and separate type of legal entity. In others, DAOs may be analyzed under frameworks that already exist for partnerships, joint ventures, associations, limited liability entities, or similar structures. 107 The legal organizational treatment for any particular DAO will depend on the facts and circumstances, including how it is structured, and the applicable law within a jurisdiction in which the DAO has a presence for purposes of any particular authorities' remit. However, to enable the principle of "same activity, same risk, same regulatory outcome," regardless of the legal characterization of a DAO from an organizational standpoint, the focus from a regulatory and supervisory standpoint typically will be on the activity the DAO is engaging in, such as whether the DAO's activities or structure involves a financial instrument, including a security, or related activities, in a particular jurisdiction.

Why are DAOs Claimed to be Decentralized?

DAOs are, at their essence, organizations of humans. DAOs are described as "decentralized" because they may claim that they operate without reliance on centralized management. DAOs are described as autonomous because they claim (or aim) to operate in an automated manner in accordance with the rules encoded in self-executing code (smart contracts) rather than in accordance with traditional articles of association or shareholders agreements.108

The common perception may be that in DAOs, entity level decisions such as what action the DAO takes or changes or alterations to the operation or activities of the DAO are determined by its membership, and are not dependent on, determined by, or controlled by In practice, however, the extent of actual voting any person or group of persons.

Case 1:24-cv-01858-ACR

https://deepdao.io/organizations.

¹⁰⁷ See, e.g., CFTC v. OokiDAO, Case No. 3:22-cv-05416 (N.D. Ca. June 8, 2023), https://www.cftc.gov/PressRoom/PressReleases/8715-23 (entering a default judgment order against a DAO whom CFTC charged with operating an illegal trading platform and unlawfully acting as a futures commission merchant); Sarcuni v. bZx DAO, Case No. 22-cv-618-LAB-DEB (S.D. Ca. Mar. 27, 2023), https://casetext.com/case/sarcuni-v-bzx-dao (finding that plaintiffs stated facts sufficient to allege that a general partnership existed among token holders of a DAO).

¹⁰⁸ Often, token holders will have some ability to participate in certain decisions, such as aspects of a project's protocol, electing working group contributor or leaders for the DAO, or administering the DAO's treasury. Often, in practice, a DAO's creators, or others, will still exercise control or sufficient influence, whether through a concentration of voting power, administrative or other gatekeeping functions, or otherwise.

participation can be low¹⁰⁹ and a DAO's *governance* actions through voting tokens can have a very concentrated distribution, with less than 1% of token holders controlling 90% of voting power of DAOs.¹¹⁰ Moreover, the types of decisions that can be voted on can be quite limited.

Whether and to what extent any particular DAO actually is decentralized or autonomous depends on the facts and circumstances and requires an in-depth examination of how that DAO is structured and how it is operating in reality.

Regulatory Actions Involving DAOs

The DAO Report

In 2016, a project called The DAO launched on the Ethereum blockchain, raising \$150 million in ether from investors in exchange for crypto-assets called DAO tokens, which entitled holders to vote on blockchain-based projects that would receive funding from The DAO. The DAO's plan was to invest funds in such projects, with profits flowing back to DAO token holders. Before the DAO had commenced funding projects, an attacker exploited a bug in the DAO's smart contract code and was able to divert about one-third of the funds held in the DAO's treasury. A period of uncertainty followed, with the members' remaining funds essentially immobilized within the DAO. Ultimately, and controversially, the effects of the attack were reversed (and the funds returned to investors) through a process known as forking, in which the blockchain was essentially split into two separate chains (Ethereum and Ethereum Classic). On the Ethereum chain, DAO funds could be reclaimed by investors. On July 17, 2017, the US Securities and Exchange Commission (SEC) issued a Report of Investigation Pursuant to Section 21(a) of the Securities Exchange Act of 1934: The DAO (Exchange Act Rel. No. 81207) (the DAO Report), explaining the application of US federal securities laws to The DAO. The DAO Report explained that The DAO tokens had been offered and sold as investment contracts, and therefore securities, and that the offering should have been registered under the federal securities laws since no exemption to registration applied. The DAO Report also made clear that the US federal securities laws may apply to various activities without regard to the form of the organization or technology used.111

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Youssef Faqir-Rhazoui, Javier Arroyo & Samer Hassan, *A comparative analysis of the platforms for decentralized autonomous organizations in the Ethereum blockchain*, 9 J. INTERNET SERV. & APPL. 12 (2021), https://jisajournal.springeropen.com/articles/10.1186/s13174-021-00139-6.

Dissecting the DAO: Web3 Ownership is Surprisingly Concentrated, CHAINANALYSIS (June 27, 2022), https://blog.chainalysis.com/reports/web3-daos-2022/.

See Release No. 81207, U.S. Securities and Exchange Commission, Report of Investigation Pursuant to Section 21(a) of the Securities Exchange Act of 1934: The DAO (July 25, 2017), https://www.sec.gov/litigation/investreport/34-81207.pdf.

The Ooki DAO

Case 1:24-cv-01858-ACR

On September 22, 2022, the US Commodity Futures Trading Commission (CFTC) filed an enforcement action in district court against a DAO called the Ooki DAO, alleging that the Ooki DAO was "illegally offering levered and margined retail commodity transactions in digital assets; engaging in activities only registered futures commission merchants (FCM) can perform; and failing to adopt a customer identification program as part of a Bank Secrecy Act compliance program, as required of FCMs."112 The district court permitted the CFTC to achieve service of the Complaint by alternative means, consisting of providing a copy of the summons and complaint through the Ooki DAO's "Help Chat Box," and an online discussion forum on the Ooki DAO's public website. 113 On June 8, 2023, the district court judge entered a default judgment order that requires the Ooki DAO to pay a civil monetary penalty; orders permanent trading and registration bans; and orders the Ooki DAO, as well as any person or entity acting on its behalf providing web-hosting or domain-name registration services in the US, to shut down the Ooki DAO's website and remove its content from the Internet. The Court held that the Ooki DAO is a person for purposes of the Commodity Exchange Act and thus can be held liable for violations of the law.114

Different Types of DAOs and their Uses¹¹⁵

Like other organizations, DAOs are heterogeneous, and their goals, scale, and participants can vary widely. DAOs can be organized for various stated purposes, whether charitable, profitable, social or technological. Although most DAOs have been focused on online-

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See CFTC v. Ooki DAO, Civ. No. 3:22-cv-5416 (N.D. Ca. Sept. 22, 2022), https://www.cftc.gov/PressRoom/PressReleases/8590-22.

See CFTC v. Ooki DAO, Civ. No. 3:22-cv-05416-WHO (N.D. Ca. Dec. 20, 2022), https://storage.courtlistener.com/recap/gov.uscourts.cand.400807/gov.uscourts.cand.400807.63.0.pdf

⁽holding that service has been achieved).

See Release No. 8715-23, Statement of CFTC Division of Enforcement Director Ian McGinley on the Ooki DAO Litigation Victory (June 9, 2023), https://www.cftc.gov/PressRoom/PressReleases/8715-23.

Bud Hennekes, *The 8 Most Important Types of DAOs You Need to Know*, ALCHEMY (April 6, 2022), https://www.alchemy.com/blog/types-of-daos; Georgia Weston, *Know The Different Types Of DAOs*, 101 BLOCKCHAINS (April 29, 2022), https://ioliblockchains.com/types-of-dao/; *Full 2022 Guide to Different Types of DAOs*, MORALIS WEB3 TECHNOLOGY (2022), https://moralis.io/full-2022-guide-to-different-types-of-daos/.

related projects, their presence has been expanding. ¹⁶ DAOs can be grouped into a number of general categories, each purportedly designed to serve a specific purpose. ¹⁷

DAO Participants

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The following participants are generally involved in a DAO:

- Developers and Founders: Developers and/or founders typically create, code, promote and deploy a DAO, including its associated smart contracts. Typically, they establish the structure through which governance will be effectuated.
- Members: Some DAOs are set up so that membership is based on the ownership of
 tokens, often called DAO tokens or governance tokens. These typically provide
 certain types of voting rights, which may or may not relate to the operation of the
 DAO or its activities. Others establish their membership in other ways.
- Employees/Contractors: DAOs can hire individuals or entities for a wide range of roles, including for accounting and legal services. Whether or not a DAO has a manager or a managing group responsible for hiring and other managerial or administrative duties will depend on the particular DAO.
- Working Groups: Many DAOs have adopted a division of labor into working groups (also known as workstreams or subDAOs), each of which may comprise a group of members or other contributers to the DAO. As compensation for serving on such a working group, a contributer typically is paid by the DAO from its treasury. Working groups have focused on such topics as product development, operations, growth and marketing. These groups might manage things like

Amir Ghavi et al., *A Primer on DAOs*, THE HARVARD LAW SCHOOL FORUM ON CORPORATE GOVERNANCE (Sept. 17, 2022), https://corpgov.law.harvard.edu/2022/09/17/a-primer-on-daos/.

¹¹⁷ Industry reports describe various types of DAOs, including the following: protocol DAOs (facilitate operational choices about certain aspects of a DeFi protocol, such as a DEX or borrowing/lending protocol); grant DAOs (facilitate funding of projects, typically associated with a DeFi protocol or ecosystem; typically are established by the protocol developers or close affiliate; typically disburse treasury funds to support projects to develop a protocol or ecosystem); philanthropy DAOs (support socially responsible initiatives); social DAOs (bring together individuals to create communities and working groups around social issues; often form exclusive memberships to organize social events or to provide some other social benefit to members); collector DAOs (pool funds to purchase something, often a digital good, such as a 'blue chip' NFT or other digital collectible; each member typically owns a pro rata share of the item purchased, corresponding to their pool input); investment and venture DAOs (pool capital to invest, typically in DeFi start-ups and protocols; aim to provide access to investment portfolios that may not be available in traditional finance); media DAOs (create media platforms, often aiming to create platforms where content creation is driven by the community and individuals in the network are incentivized to contribute based on the ability to earn profits from participation; subDAOs (manage specific functions such as operations or partnerships within the DAO); employment DAOs (facilitate matching of human skills with demand; contracts members' skills to other individuals and entities).

upgrades to a protocol, grants programs to incentivize protocol usage, and promotional campaigns, respectively. In addition, DAO collectives have formed to fund and support development.¹¹⁸ These types of organized management are a part of the facts and circumstances analysis when evaluating the treatment of DAOs under applicable regulatory frameworks.

Third-Party Service Providers: DAOs often hire third parties to provide legal, recordkeeping, accounting, banking or other services. There are different mechanisms a DAO may use to engage these entities, many of which may entail human involvement in selection and retention of these third parties. A DAO could authorise, through a governance vote or otherwise, the use of third-party service for a particular purpose. The DAO could also authorize an individual or a group to create and capitalise a traditional corporate entity for the purpose, for example, of entering into a corporate agreement on behalf of the DAO or delegating a scope of decision-making to a particular individual or group. DAOs also use third-party service providers to host forums for discussion and voting, as well as to store code, create open-source projects and build software. Some third-party service providers offer a combination of these services. Third party services are also used to enforce *token-gating* where access to certain information is restricted based on ownership of a token, particularly the DAO's token. The extent to which these DAO activities are initiated or controlled by a person or group of persons is a facts and circumstances determination.

DAO Formation

DAOs are created by persons or entities who typically will sell crypto-assets or otherwise raise capital to further the DAO's stated purpose. The DAO typically will issue crypto-assets in accordance with a plan of distribution put in place by the persons or entities. ¹¹⁹ Often the creators of a DAO will deposit the DAO's assets into its treasury and assert that the management of the DAO will take place through the votes of token holders. Treasuries are generally used to fund the DAO's initiatives, and typically comprise tokens from an initial distribution and fees charged to users by a protocol for its use.

DAO members typically become members by purchasing or otherwise obtaining crypto-assets issued by the DAO (DAO tokens) although, depending on design, some members need not hold tokens. DAO tokens typically can be purchased by anyone interested in joining a DAO, in exchange for other crypto-assets or for some form of contribution or service to the DAO. DAOs distribute DAO tokens in many of the same ways other crypto-asset token issuers distribute them, i.e., through direct distribution to purchasers or users, through initial purchasers who then on-sell them to a broader set of purchasers (akin to underwriting), or through platforms or protocols (who, themselves, could be akin to issuers, brokers or dealers). They may also distribute them through "air drops," often to founders, members who provide services to the DAO, members who have been most actively involved in governance of the DAO, other crypto-asset holders, or users of protocols that the DAO is associated with. DAO distributions can occur through private sales, vesting and liquidity mining, as well. Once issued by a DAO, DAO tokens typically can be traded for other crypto-assets on DEXs, deployed into DeFi protocols, and often are traded on CeFi crypto-asset trading platforms.

See, e.g., 5. Pilot: May '22 - May '23, PROTOCOL-GUILD, https://protocol-guild.readthedocs.io/en/latest/5-initial-pilot.html.

In theory, a DAO's governance rules could be encoded in smart-contracts on the blockchain on which it depends and all on-chain activity associated with a DAO could be immutably recorded on the blockchain, providing transparency to observers. 120 In practice, however, DAOs rely critically on input from human actors for their operation, including through activities that occur off-chain. DAOs often are accompanied by their own foundational documents that describe the goals of the DAO. 121 Some of those foundational documents have been described as constitutions, covenants, manifestos, charters, codes of conduct, and guidelines, among other descriptions. 122

As it is costly to record every action to a blockchain, much of a DAO's activities typically occur off-chain. Off-chain communication tools are used to increase efficiency, facilitate onboarding, discuss proposals, and come to an agreement with members to achieve their goals. 123 The most popular communication tools used by DAOs today include popular social media platforms. Each of these services have varying terms of service and features. Thus, contrary to widely made assertions, while a DAO may involve elements of governance carried out by smart contracts on a blockchain, it also includes off-chain governance involving human interaction and negotiation.124

DEFI VOTING STRUCTURES

A major tenet of DeFi is to eliminate reliance on centralized institutions, including centralized governance structures. Some DeFi entities attempt to effectuate governance in ways that claim to avoid centralized control and to flatten hierarchies. The stated effort is to spread power among a broad participant base. Proponents of DeFi assert that code can be deployed to obviate the need for traditional centralized governance mechanisms. Nevertheless, and notwithstanding new approaches to governance, it has become clear that control and decision-making authority in DeFi projects as a practical matter remain concentrated, and a relatively small number of participants may in reality exercise dominion over a DeFi project or protocol, including the ability to control or influence its operation.

120 Some proponents of DAOs proffer that a DAO's activities can be managed completely on-chain so that anyone can observe its activities, audit its smart contract code, and participate - giving both investors and workers greater transparency and involvement into the inner workings of the organization, with the same opportunities to profit or benefit from its operations.

See https://github.com/metagov/constitution-template/tree/main/constitutions (a repository of DAO constitutional documents).

See, e.g., https://constitutions.metagov.org/article.

123 Hatice Ugurel, The best communication and consensus tools for DAOs in 2022, MEDIUM (Apr. 12, 2022), https://medium.com/multytude/the-best-communication-and-consensus-tools-for-daos-in-2022-7a8a26134204.

BlockScience, Exploring DAOs as a new kind of institution, MEDIUM (Mar. 31, 2021), https://medium.com/block-science/exploring-daos-as-a-new-kind-of-institution-755eb119996b.

As observed in DeFi as currently operating, governance mechanisms can broadly be described in two categories: social and algorithmic. Social governance mechanisms facilitate organization and communication across networks of people, often using social media tools and fora.125 Algorithmic governance mechanisms program rule sets into code, smart contracts and DLT-based protocols, which will be executed by computer nodes performing functions across a DLT network.126 In most cases, DeFi governance is carried out by some combination of social and algorithmic mechanisms. However, it is important to note that, while most DeFi projects claim to rely to a varying degree on algorithmic governance mechanisms, code itself is created and deployed by humans and requires ongoing human participation to effectuate maintenance, development and upgrades. The projects themselves also rely on social governance mechanisms.

Also, various activities within these two types of mechanisms – social and algorithmic – can and do occur on-chain and off-chain. For example, a governance proposal for a particular DeFi project may first be introduced to a community off-chain, on a project's website, or a social media forum. The proposal may then be posted to, discussed and iterated upon in an off-chain forum dedicated to project governance, and may be the subject of informal polling to gauge community sentiment.127 In some cases, a proposal may need to secure sufficient support in an off-chain poll or vote in order to proceed further. Once a proposal has gained informal consensus, it may proceed to a formal voting process that can be implemented on-chain, off-chain, or through a hybrid model.

Governance (Voting) Tokens

DeFi projects often attempt to distribute governance through the use of crypto-assets that confer certain voting rights. These are often referred to as governance tokens or simply voting tokens. As described in more detail in the 2022 Report, DeFi projects - whether or not they are organized as DAOs - attempt to argue that the existence of these governance or voting tokens provide decentralized governance. Such claims, however, must be examined to determine how a particular protocol actually is managed and what voting rights any of the governance or voting tokens provide, and whether at the entity or at the smart contract level. The following section describes how governance tokens are being used

¹²⁵ Governance Web3 Networks 8 Other GITHUB.COM, See of DAOs, https://github.com/sherminvo/TokenEconomyBook/wiki/Governance-of-Web3-Networks-&-Other-DAOs ("Social governance refers to the human decision-making process over when and how to conduct potential protocol upgrades in a Web3 network or in the smart contract code of a DAO. It deals with the institutionalized decision-making process of how stakeholders in the network receive necessary information to make educated decisions about future protocol upgrades.... However, navigating in a sea of information, and evaluating the authenticity and credibility of that information and signaling is difficult.").

¹²⁶ 2022 Report, supra note 5, at 3 (for a discussion of "smart contracts").

¹²⁷ DeFi project sponsors may provide a forum for participant discussion and community feedback. Many projects use a template/white label forum service hosted under a specific project URL. See, e.g., https://www.discourse.org. Project sponsors may also take the lead in soliciting feedback, coding specific proposals, requesting votes, and promoting adoption.

in DeFi. It identifies their role and uses, the technical aspects of how they function and their limitations, and also highlights potential risks that arise from their use.

As described in the 2022 Report, governance (or voting) tokens purport to confer certain voting rights on their holders (or a holder's delegated persons, if the voting rights can be delegated). Typically, voting tokens entitle their holder to participate in certain aspects of governance (e.g., to make proposals to be submitted to a vote of the members and to vote on proposals made by other members) and/or to share in any profits the project generates (typically through the use of the governance token in the protocol in some way). 128

When a project determines it will use voting tokens, it can establish the rules of voting in several respects, including the type of voting structure. Voting tokens confer voting rights that may be exercisable only by the token holder or that may be delegable by the holder to another. Voting power may be proportionate to the number of tokens held, can be one vote per participant, or there can be some other form of voting structure, such as a representational or delegated voting structure, to combat a lack of continued interest in governance among many participants. Whatever the structure used, it is important to focus on what types of decisions vote holders can actually vote on, among other factors discussed above. Some common approaches to voting structures have emerged and are described in industry reports.129

First, ownership of governance tokens for any given project can be highly concentrated, either because the project initially distributed the tokens in a way that placed large concentrations in a single person or a group of persons, or because, due to the transferability of such tokens, certain entities then acquired significant shares of tokens, or voting rights relating to such tokens. Based on on-chain data, it appears that, for many DeFi projects, much of the voting power resides in a few wallets. Data also shows that governance token holders tend to be inactive in governance voting. The participation for most of the proposals reportedly involved less than 10% of the total outstanding supply of tokens.

¹²⁸ In order for a project that uses governance tokens to do this, at a minimum, the governance tokens must be widely distributed among project participants and grant them the actual ability to participate in the management of a project, and a dispersed community of those participates must actually participate in the management of the project through community voting. Examining publicly available data regarding current DeFi projects indicates that this is not achieved in practice and there are practical limitations to its achievement.

¹²⁹ Some of these structures are referred to as quorum (requiring a certain threshold of voters); permissioned relative majority (no minimum voting requirement); quadratic (modified form of ranked choice voting); conviction (based on the aggregated preference weighted by time); multisiq (voters signal on proposals while a committee votes); liquid democracy (participants delegate See e.g., Eric Arsenault, Voting Options in DAOs, MEDIUM (Dec. 15, 2020), https://medium.com/daostack/voting-options-in-daos-b86e5c69a3e3; DAO Voting Mechanisms Explained [2022 Guide], LIMECHAIN (May 23, 2022), https://limechain.tech/blog/dao-votingmechanisms-explained-2022-guide/.

Second, a project can have voting tokens that allow the voting rights associated with the tokens to be delegated, lent, or otherwise assigned, such that someone other than the token owner may, in fact, exercise the power to vote that token. Thus, regardless of voting token ownership concentration, voting power itself, through delegation, can be concentrated in a single person or a group of persons that may or may not have a direct financial ownership or other interest specific to that project.

Third, the types of decisions that can be voted upon with respect to any particular project vary and may be limited to those that do not significantly impact the management of the project, or the management of the entity creating or involved with the project. Certain fundamental features of a project's protocol may be fixed in the original protocol code and not subject to change or may be subject to the control of a single person or a small group of persons. Further, token holders and their votes may be treated as advisory guidance to a controlling person(s) rather than as a binding decision. Votes may merely ratify or accede to actions already taken that impact a DeFi protocol or project. It may be the case that a protocol's core developers, operators or other select participants retain the sole ability to change core aspects of a protocol, and that the scope of proposals that governance token voters can vote on is limited. In fact, the project organizers may minimize governance intentionally so as to ensure that a protocol's fundamental operation is not subject to change. This is a concept that has been referred to as "governance minimization" where protocols are designed to reduce the chance that a core aspect of the protocol will change in order to enhance the long-term dependability of the protocol, especially if it is "composable" (i.e., compatible) with other protocols or elements in the DeFi ecosystem. As composability is a feature of DeFi, allowing for developers to build upon open-source code and integrate with other protocols, a project may design its protocol so as to minimize ways that the core code of the protocol can be changed. In other words, in order to "trust" a particular protocol, a user typically would want to know that the protocol acts reliably, predictably and that someone would be accountable for any deviation. Governance minimization may also help protect a protocol from certain types of attacks. If, for example, governance token voters could use their power maliciously to access funds locked in smart contracts or change core terms to exploit a protocol, this would reduce the security and resilience of the protocol.

Fourth, a number of factors, apart from the ownership concentration, voting power distribution and the aspects subject to change by vote, may diminish the degree to which governance is decentralized. These include policies and procedures that have been set regarding the process for proposing project changes, voting on such changes (e.g., quorum requirements, nature of the vote, timing, etc.), and implementing those changes.

Analyzing Governance Structures

When analysing a DeFi project's governance structure -- whether or not it is organized as a DAO -- it is critical to understand who can change which aspects of the project and how. Determining how governance works in any particular DeFi project requires a careful assessment. In analysing governance/voting token structures, it is useful to determine, among other things:

- who issued the governance/voting tokens and how were they offered, sold and/or distributed, including to the core team, investors and the community, and whether there were any limitations to voting, such as by time-locks, thresholds, or other means;
- who controls the governance/voting token issuer and what type of entity is that issuer;
- who controls the funds of the issuer and how;
- what type of legal entity, if any, is used to enter into agreements, contracts and capital raises;
- which aspects of a project can be altered by token vote, and whether there are some
 aspects that only select individuals can alter (i.e., assigning and revoking powers
 delegated to the operator/core development team, creating budgetary proposals,
 changing core protocol parameters);
- who decides which aspects of the project can be altered by token vote, and whether and how this can be altered;
- whether there is a minimum threshold of token ownership or voting power for proposing a governance change, voting on a proposal, or passing the proposal;
- whether governance/voting requires additional technical functions, i.e., delegation or locking into smart contracts or *staking*;
- whether there are any limitations on who can vote on a proposal (all users/token holders, only governance/voting token holders, other token holders, or only the operator/core development team);¹³⁰
- whether there are any individuals with any gatekeeping function, i.e., veto power, power over whether a proposal is put to vote, power over whether a proposal, if approved, actually is implemented;
- what is required to implement a particular proposal, i.e., whether the alteration is
 effected automatically on-chain or requires select individuals to implement, i.e.,
 with an administrative key;
- whether there are aspects of the project that can be changed unilaterally by the operator/core development team (e.g., through an administrative key);
- in reality, how concentrated is the proposal, voting, and implementation power of decision-making; is the decision-making spread across a large group of disparate persons or is a smaller group of persons exerting actual control;
- What role do founders and/or developers play;
- · Are any services being used to facilitate governance; and
- How are processes and the implementation of decisions automated.

In the use of governance/voting tokens for DeFi governance currently, there is significant interplay between an on-chain and off-chain governance processes, as they are not mutually exclusive and often are used in combination. For example, in a common scenario of DeFi governance: a high-level proposal is introduced and discussed in off-chain

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In certain DeFi protocols, besides a governance/voting token, there can be one or more other tokens used for its business and operations, such as an LP token, or a stablecoin.

communications on social media; an initial proposal is posted and discussed on an off-chain governance forum; a "signaling vote" is conducted off-chain (usually with no token required); if the proposal passes the signaling vote, the proposal is posed to, for example, Snapshot for a vote off-chain (a token may be required to participate); if passed, a final vote is conducted on-chain (token is required to participate).¹³¹ Thus, during a typical voting process, off-chain voting may or may not require that a voter hold a voting token, while on-chain voting usually permits only those with the private key associated with each of the tokens the ability to cast a vote, usually in proportion to the quantity of governance token held (unless voting power has been delegated to another).

DeFi governance generally is not self-implementing and human involvement typically is necessary to effectuate governance decisions. At a minimum, proposals to make any changes to a project's protocol, smart contracts or code must be translated into usable code and implemented, so those with governance control often must rely on others with technical control and skill (i.e., administrative access and requisite technical capability).¹³²
¹³³ Even for pre-programmed governance actions that are programmed to be implemented autonomously by means of a smart contract or other code, intervention by those with administrative keys may still be necessary. Those with an administrative key may retain the power to intervene or halt pre-programmed actions that have been approved by the voting community. In addition, with respect to ongoing governance through a community proposals process, some DeFi projects may use governance facilitators, who act as gatekeepers for advancing any new proposal to an on-chain vote. Depending on who these individuals are, how they are selected, and what accountability they may have, the use of governance facilitators may result in de facto centralization of control.

Finally, where a token holder keeps their token can impact their ability to vote. For example, if a token holder deposits their tokens into a certain hosted wallet or smart contract, the holder may lose their ability to use the tokens to vote while they are in the wallet or smart contract.

Common DeFi Governance Proposal Characteristics

Case 1:24-cv-01858-ACR

The following lists typical characteristics of common DeFi governance proposals. The list does not necessarily describe any particular DeFi arrangement in operation today; rather,

See What is Blockchain Governance: On-Chain vs. Off-Chain, PHEMEX ACADEMY (Oct. 13, 2021), https://phemex.com/academy/what-is-blockchain-governance (describing the Ethereum Merge, noting potential impacts that Proof of Stake (PoS) may have on use and implementation of governance tokens and suggesting that on-chain process may become more formalized as it is easier to do in PoS model).

In some cases, proposals can be "pre-programmed", and by means of a smart contract, may execute if a vote succeeds. Even here, however, power may be reserved by an entity with technical control to nullify a proposal or otherwise stop its implementation.

Conceptually a smart contract could be deployed to monitor governance votes and then automatically implement the will of the community. In practice, however, fully automated governance is unlikely as governance issues may not be foreseeable.

it is drawn from features of existing DeFi arrangements and seeks to capture and illustrate common and prevalent features and activities pertaining to the listed categories.

Characteristics of Proposal Origination:

- Project Change Process
 - o On-chain
 - o Off-chain
 - o Hybrid
- Eligibility of Proposals
 - Direct proposing
 - Approval by community poll
 - Chaperoned by project or community representative
- Eligibility to Proposing
 - No restrictions
 - Token gated online forum access
 - o Token ownership threshold
- Proposal Vetting
 - None
 - o By community in online forum
 - By selected committee or project leadership

Characteristics of Voting Rights:

- Eligibility to Vote
 - Token ownership
 - Token delegation
 - Token staking
 - Address whitelisting
- Vote Mechanism
 - Assigned to an address based on token ownership
 - Assigned to an address based on token delegation
 - Assigned to an address based on token staked
 - Assigned to an address based on whitelisting
- Weighting of Voting Power
 - No weighting
 - Weighting based on type of token owned
 - Weighting based on balance of tokens owned
- Location of Vote
 - o On-chain
 - Off-chain
- Major Holders (As % of total token supply held by a single address)
 - o e.g., 25% to >40%
- Treasury Tokens (As % of total token supply)
 - o e.g., 8% to >30%

Characteristics of Voting Process:

- Voting window
 - Total number of votes
 - o Quorum threshold
 - Time limited
- Proposal Execution
 - o On-chain, automatic
 - o On-chain, automatic with time-lock
 - o On-chain, manual with multi-sig
 - o Off-chain, manual with development
 - o Off-chain, manual with committee approval
- Quorum requirement
 - o None
 - o e.g., 2% to 20% varying on type of change
- Observed typical participation rates
 - o e.g., o% to <20%
- · Emergency approval process
 - o None
 - o Emergency shut down or freeze
- Number of Proposals Voted on
 - o e.g., o to >500

Characteristics of Vote Impact:

- Stated intent of vote
 - Non-binding
 - o Temperature check
 - Signaling
 - Ratification
 - Binding
- · Time-lock before execution
 - None
 - o e.g., 1 to 7 days
- · Emergency shutdown
 - None
 - o Yes, through voting
 - o Yes, through multi-sig
 - o Yes, through admin or guardian rights

Characteristics That Can Be Voted On:

- Protocol parameter changes
 - Interest rates
 - Fees
 - Supported assets

- Changes to tokenomics
- o Upgrades to the codebase
- · Project operations
 - Key personnel
 - o Committee structures
 - o Multi-sig ownership
 - o Deployment to new blockchains
 - o Deployment of supporting infrastructure
- Treasury
 - o Distribution of funds for operations
 - o Distribution of funds for grants
 - o Distribution of funds for individual use

Characteristics of Proposal Implementation Gatekeeping:

- On-chain
 - Time-locks
 - o Admin and guardian rights
 - o Deployment of new smart contracts
 - o Disbursement of funds if digital asset
- Off-chain
 - o Manual development
 - o Appropriate development repository access
 - Disbursement of funds if fiat currencies

ANNEX E – UPDATE TO RISKS AND CONSIDERATIONS RELATING TO DEFI ACTIVITIES

The 2022 Report set forth many of the risks relating to DeFi activities, which persist today. This Annex highlights and gives more detail into certain risks that have been prominently illustrated by recent events and trends.

Risks Associated with DeFi Governance Structures

Specifically, since the publication of the 2022 Report, DeFi governance structures have continued to evolve, as discussed further in <u>ANNEX D</u>. Below are some of the key risks to investor protection and market integrity that arise as a result of common DeFi governance structures, in particular DAOs and governance/voting tokens, used individually or in combination.

Pseudonymity/Anonymity

The pseudonymity and anonymity¹³⁴ that are enabled through the use of DLT pose several unique risks when using DeFi arrangements and services that employ distributed governance mechanisms. These include:

- Unknown counterparties and affiliates: Typically, anyone can engage with DeFi protocols by purchasing or otherwise acquiring tokens, and token holders are not required to verify their identity, through anti-money laundering (AML)/know your customer/client (KYC) procedures or otherwise. As such, participants' real-world identities are not generally known to one another. As a participant in a DeFi governance mechanism through, for example, membership in a DAO or holding voting rights through governance/voting tokens, the participant may not be able to verify with whom they are interacting, which may put them at risk in terms of engaging with illicit finance actors, among other risks.
- Lack of visibility into actual control: The pseudonymity of blockchain transactions and the opacity into off-chain communications make it difficult if not impossible for investors or users to know exactly who controls a specific DeFi project and how decentralized that control is.¹³⁵ What might appear to be dispersed activity

Typically, transactions occurring on public and permissionless blockchains are pseudonymous, that is, public blockchain addresses may be known and transactions associated with a particular address may be observable using blockchain explorer and analytical software, but the identity of the persons engaging in transactions is not known without additional attribution information. This pseudonymity is possible because of the public/private key cryptography that underlies public blockchains. Furthermore, certain anonymity enhancing technologies, such as anonymity-enhanced crypto-assets, mixers, and other techniques, are sometimes employed to make those persons and/or their transaction details unknowable.

Governance/voting tokens typically are traded on centralized crypto-asset platforms, and therefore significant amounts of them may be held in omnibus wallets belonging to the platform. Thus, it is impossible to know through public address analysis alone the level of concentration among holders

could in fact represent the actions of a single actor or a group of coordinated actors. The ownership and voting of governance/voting tokens, including those of DAOs, typically are unknown to the broader collective of voters and/or members.¹³⁶

- Voting rights and the actual ability to participate in the governance of a DeFi project may be illusory: Aside from ownership and votership concentration, the ability to participate in governance through voting relies upon a number of factors that essentially depend upon how the issuer has established the governance mechanism, including determining which aspects of the enterprise are up for vote, and the policies and procedures around voting. This includes whether a central actor(s) has any *gatekeeping* role over the governance process, such as through holding an administrative or guardian key. In some cases, governance proposals may be required to be submitted in coded form, creating significant barriers to participants who are unable to do so.
- Conflicts of Interest and Collusion: Due to pseudonymity, it is difficult to verify what conflicts of interest exist between various market participants, what conflicts have been disclosed, or the effect of conflicts on other market participants. As a result, it is difficult to ascertain whether large voters who may or may not have an ownership interest in a project and are voters by virtue of delegation are acting in their best interest or in the interest of the project. Further, there may be off-chain, privately communicated efforts to influence token holders and voting delegates. There is also a lack of transparency when it comes to the delegation of voting power where large token holders (whales, venture capitalists (VCs), institutional investors, voting consortia) can have concentrated voting power and can obfuscate their voting activity and control.

Information Asymmetries

Information asymmetries in the context of governance/voting mechanisms, regardless of which technological tools DeFi projects use to coordinate and communicate, can arise from a lack of even-handed communication among members, such as through the

of such tokens. In addition, voting rights may be separable from a governance/voting token ownership such that ownership alone is not a proxy for voting distribution. Further, depositing a governance/voting token in a smart contract or on a platform may mean that it cannot be voted. Furthermore, off-chain activity, such as private communications, could obfuscate concentrations of power, such as through outsized influence of particular actors or collusion, as it would not be visible for participants to monitor. Thus, what seems like community-driven voting could in fact be centralized management. This can occur if, among other reasons, governance/voting tokens are held by a concentrated actor or actors, if voting power is held by a concentrated actor or actors, if a majority of those with voting power are not in fact voting (voter apathy), or if a central actor or actors has control or sufficient influence.

While on-chain data does provide some information with respect to public addresses that hold governance/voting tokens, it is impossible to know – without additional attribution data – who the beneficial owners of addresses are or whether certain addresses belong to the same beneficial owner or related parties.

restriction of access to communication channels.¹³⁷ Information asymmetries could result in the non-disclosure of important information to all governance/voting token holders, enabling potential insider- and self-dealing, and fraud or misappropriation of assets. 138

Cyber Exploits/Attacks

In addition to general cyber risks involving the use of DLT, risks to governance could also occur due to code vulnerabilities or exploits. For example, attackers have used "flash loan attacks" (see the 2022 Report and ANNEX B) to obtain a majority of a DAO's voting tokens in order to drain some or all of the assets from the DAO. Administrative keys that control certain functions of smart contracts can be leaked or "hijacked." Poor logic or coding errors in a protocol have been exploited.¹³⁹ As noted in the 2022 Report, there could be a "Sybil attack" in which certain individuals with advanced knowledge of a governance/voting token "airdrop" could generate multiple pseudonymous addresses to obtain control over a concentration of airdropped tokens to gain influence over a project. In each of these scenarios, the governance process of a DeFi project can be impacted. Even in the absence of an attack on a particular DeFi project, as DeFi is blockchain-based, any disruption or failure of a blockchain that underpins a particular DeFi product or service -- including any congestion, forks, attacks or nefarious activity -- likely will directly impact the operation of a DeFi governance structure. Furthermore, if fees increase on a particular blockchain (e.g., due to congestion), this can impact the practicality of voting for some participants.

Legal Compliance

DeFi projects may be operating outside of, or in non-compliance with, legal frameworks that apply to the activities they are conducting, such as applicable securities and other financial markets laws. As a result, investors and users in DeFi projects, including those involving governance tokens, are not getting the protections that those legal frameworks provide. These protections include protections against fraud and manipulation. Furthermore, investors and users may not have any claim or redress for improper conduct under private rights of action. Legal uncertainty and risk of loss is exacerbated by the crossborder nature of DeFi arrangements.

Governance Token Proposal and Voting Risks

Unlike traditional corporate structures with legally clear lines of responsibility, the legal obligations of participants in structures such as DAOs may be unclear in many jurisdictions. As a result, in any particular jurisdiction, it may be unclear what recourse there could be for any particular token holder for the action or inaction of other token

¹³⁷ Restriction of access can occur through settings of on-chain communication platforms or through restrictions to off-chain communication platforms based on token ownership (token-gating) where software verifies token ownership in a wallet prior to granting access to information.

Spencer Graham, Community Contribution Opportunity, HAUS PARTY, Jan. 4, 2022, https://daohaus.substack.com/p/community-contribution-opportunity.

See. e.g., Greg Noone, Can DAOs survive an onslaught of cybercrime?, TECHMONITOR, July 21, 2022, 139 https://techmonitor.ai/focus/daos-cybercrime-dao-hacks.

holders, or of the DAO. For example, there may be no obligation of managers or others holding significant amounts of governance tokens to act for the benefit of other holders or any limitations on their use or sale of governance tokens. Moreover, once developers monetize their investment through, for example, the sale of their own governance/voting tokens, they may lack the incentive to continue to develop and maintain the protocol.

In addition, a voter who may hold voting rights only through a voting delegation (and not ownership rights) could thereby influence the protocol without any interest in the long-term prospects of the protocol. In any event, a voting community could become polarized over voting decisions, which could lead to significant disruption, forks or network splits, or losses in confidence – all posing risks to holders of governance tokens or participants in the DeFi ecosystem.

Implementation Risks

There are also risks relating to implementation of software code changes approved through governance actions. DeFi protocols are, at least in part, software code. Software typically requires consistent maintenance and upgrade in order to perform optimally. Without such upkeep, software can fail due to compatibility issues, code vulnerabilities, hacks or other operational problems. The code of a protocol and its associated smart contracts may not function as intended or may react in unexpected ways over time as new circumstances emerge that were not anticipated. This raises some key risks relating to governance/voting token structures.

For example, in the event of a software issue, the viability of a DeFi project (and safety of user assets) may depend upon the ability of project participants to identify the issue, develop and code a solution, and marshal the voting apparatus and consensus around necessary protocol changes, often in an expeditious manner. This process is dependent upon many factors, including humans with the technical skills required to propose and code the upgrade, and voter interest and participation to follow through with what is required to approve and implement the proposal. An absence of participants who possess the technical capability, skills and know-how in relation to the coding of a protocol, or an inability to obtain required votes, each raise questions about the timeliness and effectiveness of governance processes. These issues also raise questions of key-person risk, and also that of accountability (e.g., who is responsible for untimely and ineffective governance resulting in failure of a protocol or harm to its users or others).

Risks Associated with Levered Strategies in DeFi

Highly levered products currently are being marketed to and are available to investors through DeFi projects. As a result, investors, including retail investors, are exposed to a number of risks:

- Access to leverage that is higher than on regulated markets, with the potential to magnify losses beyond which the investor can bear;
- Increased exposures to speculative assets that may lack fundamental value (i.e., do not contribute to broader social or economic function and, relatedly, reduction in investment to those that do);

- Substantial product complexity given the terminology used to describe such products (e.g., perpetual futures) and the magnitude of leverage offered;
- Automated liquidation of positions;
- Increased speed by which a position can be liquidated due to the magnified leverage;
- Significant collateral commitment, particularly as leverage increases;
- The potential for traders to access unlimited leverage via leveraging spirals on a lending protocol;¹⁴⁰
- The use of protocol-issued tokens that can then be used as collateral for levered positions, resulting in a form of self-collateralization and encouraging the creation of 'asset bubbles'; and
- Amplification of the high price volatility of the underlying asset due to high leverage and interlinkages resulting in procyclicality.

Excessive leverage can increase both volatility of asset prices and risks for financial stability overall by amplifying procyclicality. To mitigate against default risk, DeFi protocols rely on over-collateralization of positions and automated liquidations in the event that the position held by the trader breaches margin requirements. If these products were developed and used at large enough scale, there are potential systemic impacts arising from liquidation risk as automatic liquidations triggered by price volatility (or a shock to one part of the DeFi ecosystem) can have a procyclical impact on prices, impacting other DeFi protocols or crypto-asset markets generally. Unlike regulated derivative markets there are no countercyclical buffers for DeFi protocols.

Further, the interoperability and interconnectedness of DeFi projects and protocols allows highly levered actors to use their debt as collateral in other protocols, which spreads risk across the system and creates an inherent risk of a system-wide run on assets.

Risks Associated with Liquid Staking

The use of derivatives and risks associated therewith are covered in the 2022 Report. One type of derivative that has emerged since the 2022 Report results from *liquid staking*. Typically, in proof of stake (PoS) network, staked tokens cannot be used for anything else while enabling a validator to participate in the PoS consensus mechanism for the opportunity to earn staking rewards. Liquid staking has developed as a way for holders of crypto-assets that are locked up in PoS consensus activities to continue to be able to use their tokens in other DeFi activities such as trading, lending, or as collateral. Specifically, liquid staking is marketed as a way of participating in PoS validation activities while addressing the lost opportunity cost of locking up staked tokens and, in some cases, overcoming the various thresholds to staking, which can include factors such as minimal amount of tokens to activate a validator, costly hardware, or technical IT expertise. Liquid staking service providers often offer a user the ability to earn multiple tranches of rewards,

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For example, a user can pledge ETH in one DeFi lending protocol in exchange for the protocol's stablecoin which he or she can then pledge on another DeFi protocol in exchange for a different stablecoin, and the process can be repeated indefinitely and is only limited by the level of the collateralization ratio of the lending protocol for assets pledged as collateral.

including a portion of block rewards, transaction fees, and any maximal extractable value (MEV) generated through participation. According to one blockchain analytics firm, liquid staking is the most popular method for participating in Ethereum staking, the largest PoS blockchain network.¹⁴¹

In liquid staking, a crypto-asset holder deposits their crypto-assets with a liquid staking service provider in exchange for another crypto-asset commonly referred to as a *liquid staking derivative* (LSD, also sometimes referred to as a *liquid staking token* or LST or wrapped staked tokens). In many arrangements, the LSD token can be transferred freely to be used in other DeFi activities such as for trading or collateral in another DeFi protocol for lending or borrowing activities to continue to earn yields and eventually can be used to redeem the staked asset if redemptions are available.

Liquid staking providers can also lower the threshold amount of crypto-assets needed to participate in PoS validation activities if minimal thresholds are required. The most common example is overcoming the 32 ETH minimal threshold to activate a validator on the Ethereum PoS network. Liquid staking providers can enable users to deposit less than 32 ETH into the protocol which then pools customer funds together and divides them into 32 ETH batches to activate validators. Liquid staking has grown significantly since Ethereum's Merge event that changed Ethereum from a proof of work (PoW) consensus to PoS consensus blockchain network. Since the Merge event in September 2022, there has been significant growth in the DeFi liquid staking market, growing from approximately 4.6M ETH on September 15, 2022 to approximately 9.4M ETH in June 2023.¹⁴²

The mechanics and governance of liquid staking can change depending on the service provider and whether the service is provided through a centralized trading platform (CEX) or a DeFi platform. CEXs can provide LSDs in various manners, either restricted to use on the CEX platform or transferable off of the platform to be used in other activities such as DeFi activities mentioned above and are not likely subject to the DAO governance structure challenges described above. CEXs may or may not require the use of smart contracts to pool and manage users' deposits and withdrawals, deposit funds to node operators, determine fees, manage LSD token supply and other operational activates.

DeFi liquid staking services can also be organized and governed as DAOs and subject to the DAO governance structure challenges described above. DeFi platforms and related DAOs may rely on one or more smart contracts that typically pool and manage users' deposits and withdrawals, deposit funds to node operators, determine fees, manage LSD token supply and other operations activates. In addition, smart contracts can contain a full list of node operators, their public keys, and reward distribution records.

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https://dune.com/21co/ethereum-staking-and-withdrawals

See id.; https://21shares.com/research/onchain-insights.-

<u>Liquidity Staking Token Designs</u>

In exchange for depositing staked assets into liquid staking protocols, the protocols issue users another liquid token, an LSD, representing their claim on the staked assets. The liquid asset commonly comes in two different token designs: (1) rebasing assets and (2) value-accruing assets.

- Rebasing LSD assets are typically minted at a 1:1 ratio with the deposited crypto-asset. In order to match the underlying deposit plus any accrued rewards or deducted penalties, the token balance updates or rebases every day, via an oracle, to calculate rewards and penalties. The daily rebase occurs regardless of where the LSD is acquired; whether it is directly acquired from the protocol, a DEX, or another holder. A wrapping service, similar to Wrapped ETH, is used to enable interoperability of rebasing LSDs with other DeFi protocols.
- Value-accruing LSD assets are typically minted at a 1:1 ratio with the deposited crypto-assets. In order to match the underlying deposit plus any accrued rewards or deducted penalties, the exchange rate between the LSD and the underlying funds changes over time. The value-accruing LSD tokens typically have rights to the underlying staked assets plus rewards minus fees and rely on redemptions of the underlying assets to realize the accrued value. Value-accruing LSD tokens typically do not need wrapping services to be used in DeFi activities.

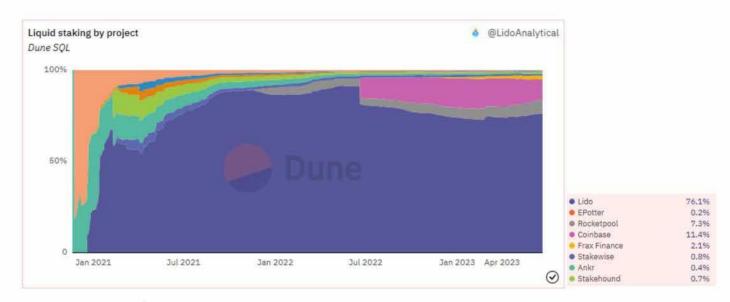
There are a number of risks that arise in liquid staking, some of which are not unique to DeFi or liquid staking activities. These risks include, but are not limited to, the following:

Liquid Staking Concentration of Validators Risk

Liquid staking concentration risks can occur at the validator node operator level where validation of transactions occurs, introducing risks to a PoS blockchain and risks to the users and protocols using the PoS blockchain. Some DeFi liquid staking protocols select a set of node operators that will be responsible for validating transactions using users' deposited crypto-assets that have been pooled by the protocol, in an off-chain process, sometimes decided by a committee. An opaque, off-chain selection process by a committee or a small group can create centralization and possible collusive, manipulative, or censorship behaviors. Concentration of validator nodes can impact the functionality of a PoS blockchain and represent significant consensus risks of a PoS blockchain if a single liquid staking protocol was able to exceed critical consensus thresholds, such as 33% of a network's validators, for an extended period of time. More specifically, an Ethereum researcher recently expressed concerns that if a liquid staking protocol reached critical consensus thresholds, controlling as little as one third of validator nodes, the liquid staking protocol managers could achieve outsized profits compared to other node participants via

coordinated MEV extraction, block-timing manipulation, and/or censorship of block space. 143

Lido currently dominates the liquid staking market for Ethereum holding more than 75% of the total market share. 144



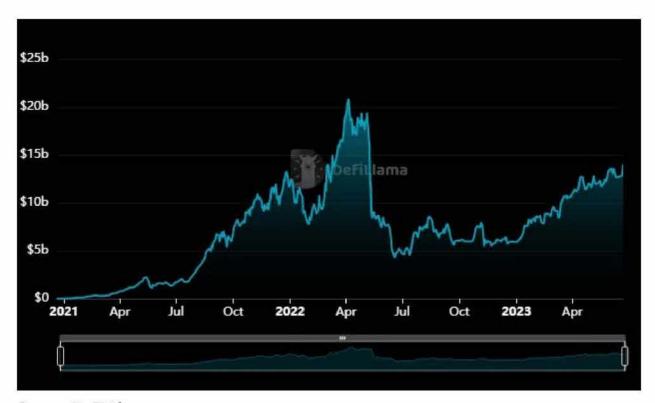
Source: Dune Analytics

Lido's TVL, in excess of \$14B, is greater than the TVL of the second and third largest DeFi protocols, MakerDAO and Aave, combined. 145

The Risks of LSD, ETHEREUM, https://notes.ethereum.org/@djrtwo/risks-of-lsd.

https://defillama.com/protocols/Liquid%20Staking.

https://defillama.com/chain/Ethereum?tvl=true.



Source: DeFi Llama

Smart Contract Risk

Smart contracts add additional risk to the underlying IT operational risks inherent to running validator nodes. Many liquid staking protocols rely on smart contracts to facilitate their operations, LSD tokens, and governance. These smart contract operations can include functionality such as pooling users' funds, batching users' funds, sending users' funds to validators, issuing LSDs, managing LSD token supplies, redeeming LSDs for deposited assets, setting protocol fees, managing node operators, and managing certain governance mechanisms via a DAO.

These smart contract-facilitated operations can introduce previously discussed smart contract risks such as code errors, private key compromises and reentrancy attacks, among others. Even to the extent users' staked assets are locked in a smart contract, a provider could still have access to those assets through, for example, a private key with elevated administration rights. Even if there is no such key, the user is exposed to the risk that assets may be lost through a failure or attack on the underlying protocol or smart contract. These risks can exist at the smart contract level, protocol operational level, LSD token issuance level, and at the governance level if there is a DAO.

DAO Governance Risk

Many liquid staking protocols are organized as or governed by DAOs, offering associated governance tokens and voting structures to determine the direction of the protocol the DAO controls. DAO governance tokens can commonly be bought and sold on both CEX and DEX venues. DAO governance tokens can be susceptible to concentrations of voting power and control by a small number of early and/or large investors who own a significant supply of governance tokens or are delegated voting rights, if enabled by the governance token. Other risks of DAO governance are discussed above.

Redemption Value and Counterparty Risks to User

As with CEX liquid staking arrangements, users participating in a DeFi liquid staking arrangement are subject to redemption risk stemming from a variance in value between the LSD and the value of the staked crypto-asset, the exchange rate, which could impact a user when the user redeems the liquid staking token for the staked token. This can occur if, for example, there is a decline in the value of the liquid asset relative to the staked asset (as it may have less liquidity or less uses, e.g., it cannot be used to pay gas fees). It could also result in an arbitrage event, where the price of a LSD is worth more than the underlying staked assets and redemptions or withdrawals are available.

Counterparty risk also exists to the other DeFi protocols that support LSDs as collateral for lending, trading markets, or other activities. For example, the top four usages of Lido's LSD token, *stETH*, occur in other DeFi protocols offering lending, collateralized debt positions, and swapping at, for example, MakerDAO, Aave and Curve Finance.¹⁴⁷ As observed in reports concerning the collapse of Terra Luna and crypto-asset hedge fund Three Arrows Capital (3AC), LSDs used as levered collateral in other DeFi arrangements can result in liquidations and contagion if the redemption value diverges from its 1:1, or more in the case of a value accrual token, ratio. In some cases, DeFi protocols reportedly have taken emergency action, using elevated administration rights to manage potential contagion risks. It is important to note that many liquid staking providers are CEXs and therefore a user is still exposed to various counterparty and other risks when depositing assets with a provider.

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For example, in June 2022, Lido's stETH deviated from the price of ETH due to a liquidity crisis in crypto-asset markets that led 3 Arrows Capital (3AC) reportedly to withdraw 80,000 stETH from DeFi protocols and convert back nearly 39,000 stETH at around 5% discount from ETH.

https://defillama.com/tokenUsage?token=steth.

STETH usage in protocols		
Name	Category	Amount \$
1 MakerDAO	CDP	\$2.02b
2 AAVE V2	Lending	\$1.71b
3 AAVE V3	Lending	\$749.47m
4 Curve DEX	Dexes	\$537.57m

Source: DeFi Llama

Risks Associated with Other Emerging Derivative Protocols

Several additional derivative protocols have gained popularity since the 2022 Report, presenting significant risks to retail investors to whom the protocols are marketed.

Perpetual Swaps:

A perpetual swap contract allows an investor to gain synthetic levered exposure to a reference asset, such as bitcoin or ether, without expiry of the contract. Perpetual swap contracts have become popular with some crypto-asset investors, as they seek high degrees of leverage and adequate liquidity through decentralized exchanges. A primary concern with these swap contracts is counterparty risk; decentralized platforms aim to obviate this risk by using automated market makers.

Automated market makers create liquidity pools of popular crypto-assets that allow users to purchase long or short perpetual swaps by connecting a crypto wallet. Decentralized exchanges offer a variety of crypto perpetual swaps, or futures, assuming adequate liquidity pools can be established. In addition, decentralized exchanges offer different levels of leverage, sometimes in excess of 30 times margin. Decentralized exchanges may rely on oracles to generate pricing or use an order book that allows buyers and sellers to generate price discovery. Trading in an order book may require users to pay or receive a funding rate to incentivize participation on each side of the market (i.e., long and short). Investors in perpetual swaps face significant risks, including:

Complexity of the transaction and exchanges, given the differences in exchanges
offering such contracts, and the varied terminology used in marketing such
arrangements. For example, perpetual swaps or futures can be liquidated much
more quickly than many futures terms given their heightened leverage and the
volatility of the underlying reference asset.

See DYDX TRADING, DECENTRALIZED, https://dydx.exchange/?.

- Leverage on swap contracts that may prohibit users from holding a contract for a
 period of more than a few minutes¹⁴⁹ without the possibility of full loss depending
 on the volatility of the reference asset.
- Deviation of contract pricing from the reference asset's spot market depending on the accuracy of the oracle or depth of the order book.
- Fee transparency is difficult to ascertain given the diversity of exchange structures;
- Significant fees associated with maintaining a position or associated with the funding rate, depending on the depth of the order book.
- Significant collateral commitment, particularly as leverage increases.

Synthetic Crypto-assets:

Decentralized exchanges offer synthetic crypto-assets or fiat currencies to users via derivative tokens. These synthetic assets may be used for a variety of purposes, including trading with leverage, for deposit into a pool to earn yield, or to collateralize options. Investors in synthetic crypto-assets or fiat currencies face significant risks, including:

- Deviation of pricing from the reference asset spot market depending on supply and demand of the synthetic instrument.
- Counterparty risk to the issuer of the synthetic crypto-asset.
- Platforms are designed to allow the creation of synthetic assets that combine derivative positions.
- Procyclicality of derivative instruments referencing the underlying performance of derivative instruments.

Options on Crypto-assets:

Certain protocols use AMMs to offer options in crypto-assets, such as ETH or wBTC, to users. Users are offered a variety of puts and calls to buy or sell at different strike prices and expiration dates. Liquidity is maintained in the pool by liquidity providers who deposit crypto-assets to a market-maker vault; these liquidity providers earn fees when options are traded.

Investors in options on crypto-assets face significant risks, including:

- Complexity in crypto-asset option markets, including the historically strong variance between spot and futures prices.¹⁵⁰
- Reliance on oracles to determine pricing at expiry.
- Liquidity providers may be subject to withdrawal risk in which they must wait for their funds until adequate liquidity is achieved in a specific pool.
- Unexpected or unanticipated interactions between traders and liquidity providers.
 For example, a sustained win rate for traders might result in losses for liquidity providers.

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¹⁴⁹ Id.

Maik Schmeling et al., *Crypto carry*, (BIS Working Paper No. 1087, Apr. 2023), https://www.bis.org/publ/worki087.pdf.

Risks Associated with Oracles

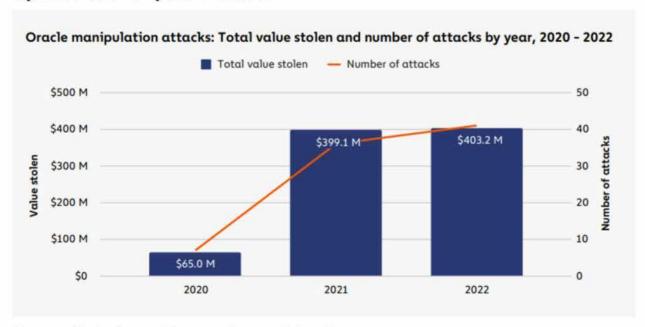
When a protocol relies on an oracle for data, such as pricing data, there is significant risk if the data is inaccurate – whether due to manipulation, deprecation, or other reasons.

Risk of Manipulation

DeFi protocols often use pricing oracles to provide information to trigger margin calls, liquidations or to settle positions. These pricing oracles can be centralized or they can claim to be decentralized. A centralized oracle is controlled by a single entity and can be the sole source of information for the DeFi protocol. Centralized oracles have a single point of failure which can mean these protocols are vulnerable to corruption and attack.

An asserted decentralized oracle typically sources information from multiple nodes across the oracle network to confirm the underlying source data. The source data can be market data from one data source, such as a centralized crypto-asset trading platform, or data from multiple centralized crypto-asset exchanges, e.g., for the market price of a crypto-asset. As is the case for centralized derivative protocols, there is potential for decentralized oracle data to be manipulated by bad actors. The effect of oracle price manipulation is comparable to benchmark manipulation and can result in harm to users of the protocol. In addition, the decentralized oracle is established by code, and subject to the same issues and risks as other code used in DeFi protocols.

One blockchain analytics firm estimates that DeFi protocols lost \$386.2 million in 41 separate oracle manipulation attacks.¹⁵¹



Source: Chainalysis - The 2023 Crypto Crime Report.

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CHAINALYSIS, supra note 21.

Typical Oracle Attack

A typical oracle attack is based on the following steps and involves the use of a flash loan:

- Preparation of funds the attacker borrows a large number of crypto-assets via lending protocols.
- 2. **Raising the price of target assets** the attacker manipulates the price of target assets (i.e., by exchanging many tokens back and forth between different liquidity pools). The oracle(s) relied upon by a DeFi protocol pass the manipulated price data to the DeFi protocol.
- 3. **Profiting** the attacker exchanges the target asset for crypto-assets borrowed from the lending protocols. As the attacker inflates the price of the target asset, it can exchange the target asset for a larger amount of other assets.
- Loan repayment the attacker restores the assets in the liquidity pool to their initial state to avoid losses caused by price slippage and repays crypto-assets borrowed from lending protocols.

An oracle attack reportedly occurred on the bZx protocol when an attacker used a flash loan to inflate the value of a stablecoin (sUSD) on a decentralized exchange. The stablecoin was deposited into bZx as collateral at an inflated price, as bZx utilized pricing oracles from the decentralized exchange for the exchange rate of sUSD/ETH. This allowed the attacker to open an undercollateralized position utilizing the inflated value of the stablecoin as collateral and close out the position to withdraw more ETH than they otherwise would have been able to. 152

Mispricing Risks

There is a risk of price divergence when the pricing data provided by an oracle diverge from the market price of the underlying asset. For example, price divergence could occur when there are market price dislocations on spot exchanges that feed into oracles or if the protocol does not update the pricing of its products in a sufficiently timely manner. High levels of volatility may exacerbate this risk as it may be inefficient for DeFi protocols to fetch pricing data from oracles on a real time basis due to transaction costs (i.e., gas costs) incurred ¹⁵³ and block validation times ¹⁵⁴. In contrast, in traditional financial markets data feeds are normally provided on a near real-time basis.

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The bZx attacks explained, PALKEO (Feb. 18, 2020), https://www.palkeo.com/en/projets/ethereum/bzx.html.

Oracles (or their node operators) may charge fees to provide data. *See, e.g.*, https://ethereum.stackexchange.com/questions/87473/is-chainlinks-price-reference-data-free-to-consume.

For example, the protocol offered by Synthetix updates the smart contract pricing at fixed intervals (currently 3 minutes) based on the pricing oracle Chainlink, but only if any prices have moved above a particular amount.

Discrepancies between the oracle price or the price of the relevant crypto-asset and the unverifiable spot price of underlying assets, may result in a product not performing to the expectations of the user. There is also a risk that front-running attacks can be carried out by a user that pays a higher transaction fee so that their transaction is executed prior to the oracle price update.

Risks Associated with the use of Automated Liquidation Mechanisms

As noted above, many DeFi protocols, including lending and borrowing protocols and those that provide direct derivatives exposures, rely on over-collateralization and automated liquidations to manage default risk on crypto-assets issued. The effectiveness of the liquidation mechanisms used by these protocols is therefore paramount to the fair compensation of counterparties in the event of default.

Certain characteristics of the DeFi ecosystem can hamper the effectiveness of these mechanisms. For one, most smart contracts cannot liquidate collateral without an external party instigating the transaction. Protocols must either operate bots (automated programs) or incentivize market participants to purchase the collateral from them or otherwise instigate the liquidation process. These bots can be deployed to identify and profit from arbitrage opportunities if they identify deviations between the price quoted by the smart contract and the market price. 155 These mechanisms must be robust to a variety of market conditions. Any discount offered to market participants to incentivize liquidation must exceed any potential price depreciation of the collateral asset. This can be difficult as, in times of volatility, rising gas prices and elevated transaction volume can increase congestion on the network, meaning the prices at which the discount is calculated can be stale. Additionally, network congestion can result in gas prices exceeding the default tolerance that liquidation bots are configured to use, meaning that the transactions sent by the bots are not committed to the network. Some market participants and protocol operators have expressed concerns that a large enough collateral liquidation could prevent the entire underlying blockchain from processing transactions for some time. 156

See 2022 Report, supra note 5, at 15.

ALEX MELIKHOV & PETER SERGEEV, EQUILIBRIUM WHITE PAPER 3 (2022), https://equilibrium.io/docs/zh/Equilibrium WP.pdf.

ANNEX F - MAPPING OF IOSCO PRINCIPLES TO DEFI ACTIVITIES

Introduction

The 2022 Report detailed the operation of the DeFi ecosystem, discussing the technology components used, the various DeFi protocols for participants to engage in crypto-asset activities, the products and services provided in connection with such protocols, and the various participants in the DeFi ecosystem. The purpose of the mapping in this report is to examine and identify how typical DeFi products, services, arrangements, and activities implicate IOSCO Standards.¹⁵⁷

This mapping is intended to identify how the IOSCO Principles should apply with respect to DeFi products, services, arrangements, and activities, based on a current understanding of the facts and circumstances, including the economic realities of activities in the DeFi ecosystem, first discussed in the 2022 Report.

In those jurisdictions where many DeFi participants are acting in non-compliance with existing laws, regulators can use this mapping to identify the activities and participants that already fall within the scope of their regulatory remit and to help assess how to apply their existing regulatory regime. In jurisdictions where existing securities and other relevant laws may not apply, this mapping can assist regulators as they consider ways to address any potential gaps in their regulatory regime. In both instances, the IOSCO Principles provide a sound basis for how to approach regulation of such activities and participants and avoid regulatory arbitrage between traditional financial activities and participants on the one hand, and DeFi activities and participants on the other. The mapping is not intended to accept existing arrangements and activities as static, without any ability or necessity for change. In fact, it is more likely that to comply with existing or new laws in jurisdictions, DeFi activities and participants may need to alter their operations. In addition, as most DeFi protocols operate cross-border it will be important for jurisdictions to cooperate as they assess the operation of the activities and participants in the DeFi ecosystem to avoid conflicting analyses and determinations regarding the application of IOSCO Principles.

A. Principles relating to the Regulator

- The responsibilities of the Regulator should be clear and objectively stated.
- 2. The Regulator should be operationally independent and accountable in the exercise of its functions and powers.

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https://www.iosco.org/library/pubdocs/pdf/IOSCOPD562.pdf.

For all references to the IOSCO Principles in this report, see OICV-IOSCO, THE OBJECTIVES AND PRINCIPLES OF SECURITIES REGULATION (May 2017),

https://www.iosco.org/library/pubdocs/pdf/IOSCOPD561.pdf. For further background on the IOSCO Principles, see OICV-IOSCO, METHODOLOGY FOR ASSESSING IMPLEMENTATION OF THE IOSCO OBJECTIVES AND PRINCIPLES OF SECURITIES REGULATION (May 2017),

- 3. The Regulator should have adequate powers, proper resources and the capacity to perform its functions and exercise its powers.
- The Regulator should adopt clear and consistent regulatory processes.
- 5. The staff of the Regulator should observe the highest professional standards, including appropriate standards of confidentiality.
- 6. The Regulator should have or contribute to a process to identify, monitor, mitigate and manage systemic risk, appropriate to its mandate.
- 7. The Regulator should have or contribute to a process to review the perimeter of regulation regularly.
- 8. The Regulator should seek to ensure that conflicts of interest and misalignment of incentives are avoided, eliminated, disclosed or otherwise managed.

All of these IOSCO Principles relating to the regulator should apply with respect to DeFi activities and participants. A key consideration of the Principles relating to the regulator with respect to DeFi is whether the regulator has the appropriate resources – including knowledge, data and tools – to evaluate DeFi activities and participants. In addition, a significant challenge for a regulator in applying IOSCO Principles to DeFi is the limited availability and interpretability of verifiable data relating to many DeFi activities, and the resulting lack of transparency into those activities. Lack of transparency exists, in part, because information off-chain can be difficult to obtain and information on-chain can be difficult to interpret. For those activities that involve financial instruments, including securities, application of the regulator's existing regulatory regime will help address these transparency issues, as application of requirements will typically enhance recordkeeping and reporting. To the extent a jurisdiction may determine that the existing regulatory regime does not apply, the regulator could consider other ways to address data gaps.

B. Principles for Self-Regulation

9. Where the regulatory system makes use of Self-Regulatory Organizations (SROs) that exercise some direct oversight responsibility for their respective areas of competence, such SROs should be subject to the oversight of the Regulator and should observe standards of fairness and confidentiality when exercising powers and delegated responsibilities.

If there is any entity that operates or, in the future will operate, as a SRO for participants in the DeFi ecosystem, then such entity (whether or not incorporated) should be subject to the IOSCO SRO principle.

This Principle covers regulatory systems that make use of SROs that exercise some direct oversight responsibility for their respective area of competence. DeFi activities and participants, to the extent that they involve financial instruments, including securities, may already, depending on the jurisdiction, be subject to a jurisdiction's regulatory framework and perimeter, even if they are not currently operating in a manner compliant with the jurisdiction's regulatory framework.

The following are non-exclusive examples of types of DeFi activities that may be within the scope of activity covered by an SRO in certain jurisdictions, either currently or in the future, and to the extent not, these are the activities that could be the focus of addressing any gaps:

- Aggregators and Decentralized Exchanges (DEXs) involving crypto-assets that are financial instruments, including securities. These activities may be exchange, broker, dealer or adviser activity.
- Borrowing and lending activities involving crypto-assets that are financial instruments, including securities. These activities may be broker or dealer activity.
- · Derivatives activities.

C. Principles for the Enforcement of Securities Regulation

- 10. The Regulator should have comprehensive inspection, investigation and surveillance powers.
- 11. The Regulator should have comprehensive enforcement powers.
- 12. The regulatory system should ensure an effective and credible use of inspection, investigation, surveillance and enforcement powers and implementation of an effective compliance program.

Regulators should have comprehensive inspection, investigation, surveillance and enforcement powers over DeFi activities subject to securities laws. The above Principles are to be interpreted broadly to ensure regulators have a variety of measures to detect, deter, enforce, sanction, redress and correct violations of securities laws.

The following are non-exclusive examples of types of DeFi activities that could involve securities activities subject to regulation in certain jurisdictions, or are similar to such activities in others, either currently or in the future:

- Aggregators, DEXs and Automated market makers (AMMs);
- Trading/Lending/Borrowing/Derivative products and activities;
- The offer and sale of interests in DeFi products and services, including the offer and sale of tokens or other crypto-assets in exchange for the deposit of cryptoassets or borrowing of crypto-assets from any product;
- The offer and sale of governance tokens;
- Collective investment schemes, hedge funds and other private investment vehicles and investment pools;
- Providing investment advice about crypto-assets or crypto-asset trading activities, whether directly or indirectly;
- The activities of investors, collective investment schemes (retail/non-retail), hedge funds or other private investment vehicles, and others, in DeFi products, including in trading directly or through aggregators, DEXs, lending and borrowing activities.

D. Principles for Cooperation in Regulation

- 13. The Regulator should have authority to share both public and non-public information with domestic and foreign counterparts.
- 14. Regulators should establish information sharing mechanisms that set out when and how they will share both public and non-public information with their domestic and foreign counterparts.
- 15. The regulatory system should allow for assistance to be provided to foreign Regulators who need to make inquiries in the discharge of their functions and exercise of their powers.

As most DeFi activities occur cross-border, there is a need for regulators to cooperate as they evaluate the operation of such activities and participants in the DeFi ecosystem. The Principles for cooperation can serve as the basis for approaches to international cooperation and information sharing among regulators with respect to DeFi activities. Cooperation will allow regulators to minimize the likelihood that compliance programs, investigations and enforcement activities will be impeded by jurisdictional boundaries. Regulators should consider what cooperation tools are available for cross-border cooperation and information sharing.

E. Principles for Issuers

- 16. There should be full, accurate and timely disclosure of financial results, risk and other information which is material to investors' decisions.
- 17. Holders of securities in a company should be treated in a fair and equitable manner.
- 18. Accounting standards used by issuers to prepare financial statements should be of a high and internationally acceptable quality.

The Principles for issuers concern the information that issuers should disclose to investors when they invest in securities and on an ongoing basis. Full, timely and accurate disclosure of financial and non-financial information for DeFi projects would provide investors with information about the issuer, its management and ownership, the risks of investing in a particular security backed by a specific issuer and financial results or other information specific to the project.

Potential Issuers of Financial instruments, Including Securities: The following are non-exclusive examples of types of DeFi products, services, arrangements, and activities that could involve the issuance of financial instruments, including securities, in certain jurisdictions, or are similar to such activities in others, either currently or in the future:

- Aggregators and DEXs, offering and selling their own crypto-assets, including governance tokens, LP tokens or other crypto-assets;
- Lending/borrowing products or services that offer and sell interests in their
 pools in exchange for crypto-assets. In these cases, market participants "deposit"
 crypto-assets into pools in exchange for an interest in the pool. These pool
 interests are represented by other crypto-assets or tokens that represent the
 depositor's pro rata value of the lending pool. The holder of the pool interest
 represented by the token can obtain value from it by trading it in secondary

- markets, borrowing against it, or by presenting it to the pool for redemption of the crypto-asset deposited and all accrued *pro rata* income.
- Lending/borrowing products or services that offer and sell other crypto-assets, such as governance tokens, that may give the holder particular rights, whether to vote on aspects of the lending/borrowing product or service, or other economic interests in the lending/borrowing product or service.
- An AMM or other liquidity pool that offers and sells interests in the pool of crypto-assets that is the AMM. As with the borrowing and lending product tokens that are issued in exchange for crypto-assets deposited in the pools, AMM tokens are also redeemable by the holder for the crypto-asset plus the pro rata income from the pool.
- A developer, founder or promotor of DeFi protocols also may directly offer and sell crypto-assets, including in the form of governance tokens, or other cryptoassets. These offers and sales may occur at the initial funding of the protocols or may occur on an ongoing basis with sales of crypto-assets from the "treasury" of these protocols.
- Aggregators and DEXs also may be involved in offering and selling crypto-assets
 or tokens of other issuers, thereby participating in distributions of financial
 instruments, including securities. This may occur through the aggregator or
 DEX's operations or offerings through which creators or operators of DeFi
 protocols may distribute governance tokens or other crypto-assets, including
 crypto-assets that are placed in "treasury" for distribution.
- The issuance of derivatives, including derivatives/synthetics on traditional financial instruments, as well as the issuance by a cross-chain bridge, wrapping of a token, or in connection with liquid staking.

F. Principles for Auditors, Credit Rating Agencies, and Other Information Service Providers

- 19. Auditors should be subject to adequate levels of oversight.
- 20. Auditors should be independent of the issuing entity that they audit.
- 21. Audit standards should be of a high and internationally acceptable quality.
- 22. Credit rating agencies should be subject to adequate levels of oversight. The regulatory system should ensure that credit rating agencies whose ratings are used for regulatory purposes are subject to registration and ongoing supervision.
- 23. Other entities that offer investors analytical or evaluative services should be subject to oversight and regulation appropriate to the impact their activities have on the market or the degree to which the regulatory system relies on them.

DeFi activities and participants can involve auditors (whether due to laws and rules applicable to issuers or other participants providing audited financial statements or

financial information or other types of auditor involvement), credit rating agencies (whether or not identified as such), and other information service providers (including index and pricing information providers).

The following are non-exclusive examples of types of DeFi activities to which the IOSCO Principles could apply, either currently or in the future:

- Any DeFi project providing audited financial information, including without limitation audited financial statements;
- Any DeFi project that provides any type of credit score may be viewed as a credit rating agency subject to principle 22. If a DeFi project posts or provides the credit ratings of an independent credit rating agency, then the principle applies to the independent credit rating agency.
- Some DeFi projects may offer analysis or evaluative services on their user interface or promote the result(s) of such services for a variety of reasons, including increasing investor engagement in the project or increasing investment in the protocol.
- Many DeFi projects rely on "oracles" to provide pricing information necessary to the operation of the projects. These oracles would likely be considered information service providers and subject to the IOSCO principle 23.¹⁵⁸ These oracles provide off-chain pricing information to smart contracts on an ongoing basis.

G. Principles for Collective Investment Schemes

- 24. The regulatory system should set standards for the eligibility, governance, organization and operational conduct of those who wish to market or operate a collective investment scheme.
- 25. The regulatory system should provide for rules governing the legal form and structure of collective investment schemes and the segregation and protection of client assets.
- 26. Regulation should require disclosure, as set forth under the Principles for issuers, which is necessary to evaluate the suitability of a collective investment scheme for a particular investor and the value of the investor's interest in the scheme.
- 27. Regulation should ensure that there is a proper and disclosed basis for asset valuation and the pricing and the redemption of units in a collective investment scheme.
- 28. Regulation should ensure that hedge funds and/or hedge funds managers/advisers are subject to appropriate oversight.

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It is likely these oracles are also subject to IOSCO principles for financial benchmarks. See OICV-IOSCO, PRINCIPLES FOR FINANCIAL BENCHMARKS (July 2013), https://www.iosco.org/library/pubdocs/pdf/IOSCOPD415.pdf.

Potential Collective Investment Schemes: DeFi products, services, arrangements, and activities may fall within the scope of collective investment schemes (retail/non-retail), hedge funds and other private investment vehicles. Further, DeFi activities and participants that involve operation, marketing, management and advising with respect to these funds may be subject to laws that apply to such activities in many jurisdictions. The following are non-exclusive examples of types of DeFi activities that could involve collective investment schemes (retail/non-retail), hedge funds or other private investment vehicles, and those who operate, market, manage and advise with respect to such funds in certain jurisdictions, or are similar to such activities and participants in others, either currently or in the future:

- Certain aggregators and DEXs may be creating collective investment schemes, hedge funds or other private investment vehicles through the use of AMM arrangements. For example, AMMs typically provide a means for participants to deposit two or more crypto-assets into a smart contract (or liquidity pool) and receive a crypto-asset representing the interest in the pool (and income therefrom). Market participants are then able to use aggregators, DEXs and other service providers to engage in trading activities with the pools. The pools may constitute collective investment schemes. While some of this activity may involve broker or dealer activity, the activity can also include the provision of investment advice. For example, some aggregators provide services that offer investment opportunities to users, such as by obtaining for users the best prices for crypto-assets.
- Lending/borrowing protocols also may involve collective investment schemes, funds and other private investment vehicles. Lending products are pools of crypto-assets deposited by holders in exchange for another token representing the interest in the pool. The lending product then enables other crypto-asset market participants to borrow the crypto-assets in exchange for interest payments. The pooled nature of these lending products may satisfy the definition of collective investment scheme in many jurisdictions. Operators of lending and borrowing protocols also may be viewed, depending on their structures, as investment advisors or sponsors of the collective investment scheme. Initially at least, these operators set the terms of the smart contract arrangements, such as the crypto-asset pairs available to trade, maintain the algorithm to update interest rates, set utilization rates, and address instances of default, including maintenance of a reserve factor.
- Some DeFi products may be structured and operate as hedge funds (or other private funds, or retail/non-retail collective investment schemes), depending on applicable laws. For example, vaults are a mechanism for retail investors to participate in allegedly on-chain hedge funds by deploying capital into single or multi-strategy pools run by smart contracts. The sale of the interests in these pools may be collective investment vehicles as they are offered to the public or, if limited to institutions, may be hedge funds. There are also hedge funds that invest or interact with DeFi activities, products and services and the IOSCO Standards applicable to hedge funds would apply to these hedge funds as well.

H. Principles for Market Intermediaries

- 29. Regulation should provide for minimum entry standards for market intermediaries.
- 30. There should be initial and ongoing capital and other prudential requirements for market intermediaries that reflect the risks that the intermediaries undertake.
- Market intermediaries should be required to establish an internal function that delivers compliance with standards for internal organization and operational conduct, with the aim of protecting the interests of clients and their assets and ensuring proper management of risk, through which management of the intermediary accepts primary responsibility for these matters.
- 32. There should be procedures for dealing with the failure of a market intermediary in order to minimize damage and loss to investors and to contain systemic risk.

Potential Market Intermediaries: There are many DeFi products, services, arrangements, and activities that involve market intermediary participants or activities. This includes exchange, broker, dealer, investment advisor, custodian, clearing agency, transfer agent, and settlement activities, as well as providers of other services including proxy advisory and credit rating services. The following are non-exclusive examples of types of DeFi arrangements that could involve market intermediary activities in certain jurisdictions, or are similar to such activities in others, either currently or in the future:

- Aggregators, DEXs, and other products and services facilitate the exchange of crypto-assets. DEXs can involve order book exchanges, through which DEXs are performing functions typically associated with exchanges. DEXs can also use AMMs, also known as liquidity pools, which provide liquidity for trading markets. AMMs may be seen to be acting as liquidity providers or market makers and thus engaging in buying and selling activities like brokers or dealers.
- Aggregators and DEXs also provide services to users to enable them to trade with multiple AMMs. These activities are akin to broker or dealer activity as well.
- The operation of lending/borrowing products also may involve broker or dealer activity, particularly to the extent that the crypto-assets in the pool are financial instruments, including securities, and the lending product is engaging in lending activities with respect to the crypto-assets that are financial instruments, including securities.
- Each of the AMMs and the lending products may also be engaging in custodial
 activities and acting as counterparties, due to the manner in which the products
 engage in holding customer crypto-assets and trading customer crypto-assets.
 Whether these products and protocols may be acting as custodians of crypto-assets
 may depend, in part, on how the crypto-assets are transferred to the smart contracts.
- Aggregators enable users to seek the most favorable terms across a variety of protocols. Aggregators allow users to source bids and offers, monitor prices and

- execute transactions across multiple protocols and trading platforms from a single interface. These activities likely involve exchange, broker or dealer, or investment advisor activity, depending on the particular facts.
- Yield aggregators are platforms of investment opportunities which, depending on how they are structured, provide the functions of either or both a broker and/or an investment advisor. Some yield aggregators provide a type of asset management which has similar characteristics to automated investment or robo-advisory services.
- Portfolio aggregators' primary functionality gives investors visibility into their current positions and allows them to execute transactions from the aggregator's interface thus providing the functions of a broker or dealer.
- Aggregators specializing in governance protocols may centralize proposals and voting across various DAOs, providing recommendations on how to vote on certain proposals. In this capacity, these types of aggregators may be acting as proxy advisors, if voting is delegated to the protocol. Investors may exchange their voting right(s) for compensation in such arrangements.
- Promotors of DeFi products or services.

I. Principles for Secondary and Other Markets

- 33. The establishment of trading systems including securities exchanges should be subject to regulatory authorization and oversight.
- 34. There should be ongoing regulatory supervision of exchanges and trading systems which should aim to ensure that the integrity of trading is maintained through fair and equitable rules that strike an appropriate balance between the demands of different market participants.
- 35. Regulation should promote transparency of trading.
- 36. Regulation should be designed to detect and deter manipulation and other unfair trading practices.
- 37. Regulation should aim to ensure the proper management of large exposures, default risk and market disruption.

Potential Exchange/Trading Systems: There are DeFi products, services, arrangements, and activities that could involve exchange and trading system activity. This includes exchange and over the counter activities, both in cash (spot) crypto-asset and derivatives markets. The following are non-exclusive examples of types of DeFi activities and participants that could involve exchange and trading system activity subject to regulation in certain jurisdictions, or are similar to such activities in others, either currently or in the future:

 Aggregators and DEXs facilitate the exchange of crypto-assets. DEXs can involve order book exchanges, through which DEXs are performing functions typically associated with exchanges. DEXs can also use AMMs, also known as liquidity pools, that provide liquidity for trading markets.

- Aggregators and DEXs facilitate the trading of crypto-assets. These activities can
 involve exchange and trading system activities, and also may operate as an issuer or
 primary distribution mechanism for new tokens or crypto-assets.
- Aggregators and DEXs also may be acting as a market for derivatives. These kinds
 of derivatives trading activities include providing protection or selling protection
 against loss (similar to swaps activities), selling synthetic exposures based on the
 value of other assets (which could include securities), and engaging in perpetual
 futures trading activity.
- Certain lending/borrowing products may act as exchanges or trading systems depending on the particular structure.
- Many protocols enable automated, and often high-speed, trading, often by sophisticated, well-capitalized entities. Algorithmic trading is common in the DeFi space, and bots are employed to run various trading strategies or identify arbitrage opportunities. Oracles and bridges offer connectivity with off-chain data and between DeFi protocols.

J. Principles Relating to Clearing and Settlement

38. Securities settlement systems, central securities depositories, trade repositories and central counterparties should be subject to regulatory and supervisory requirements that are designed to ensure that they are fair, effective and efficient and that they reduce systemic risk.

Certain DeFi activities and participants involve clearing and settlement services and the existing IOSCO Principles for clearance and settlement, securities depositories, trade repositories, and central counterparties could apply.

Potential Clearing and Settlement Entities: The following are non-exclusive examples of types of DeFi activities and participants that could involve clearing and settlement activity subject to regulation in certain jurisdictions, or are similar to such activities in others, either currently or in the future:

- Aggregators and DEXs use DLT to transfer ownership of crypto-assets.
 Depending on the particular protocol, these crypto-assets may be held within an
 associated smart contract, nominally on behalf of the user of the protocol.
 Changes in ownership of crypto-assets within DEX and AMMs likely involve
 clearing and settlement activity.
- Lending/borrowing protocols, as with DEXs and AMMs, generally rely on associated smart contracts to hold crypto-assets and to effectuate transfers of crypto-assets in associated lending pools. Changes in ownership of crypto-assets lending/borrowing protocols likely involve clearing and settlement activity.
- The activities of certain types of aggregators may also be viewed as clearing and settlement activity. For example, yield aggregators are platforms of investment opportunities which, depending on how they are structured, can provide the functions of either or both a broker and/or an investment advisor while potentially acting as a central counterparty. These activities may also operate as

- settlement systems, depositories, or central counterparties depending on their structure.
- Layer 1 blockchains could themselves be carrying out clearing and settlement activities.

ANNEX G – SUMMARY OF UPDATED SURVEY RESULTS AND OUTREACH

In November 2022, the IOSCO Fintech Task Force (FTF) Decentralized Finance Working Group (DeFi WG) issued a survey to members of the IOSCO FTF to obtain information regarding their current and planned regulatory approaches to DeFi and to inform the ongoing work of the DeFi WG (the *Survey*). The Survey requested information regarding, among other things: the regulatory treatment of DeFi within IOSCO member jurisdictions; DeFi activities, including challenges, risks, and trends, within IOSCO member jurisdictions; and regulatory engagement with DeFi market participants, stakeholders, academics, and researchers.

Regulatory Treatment of DeFi within IOSCO Member Jurisdictions

(a) Overview of the current regulatory treatment of DeFi activities

The Survey asked respondents to provide an overview of the current regulatory treatment of DeFi activities within their jurisdictions. All respondents stated that they do not have separate regulatory frameworks specifically dedicated to DeFi activities at this time. Most of the respondents noted that DeFi activities are currently viewed through the same regulatory frameworks that apply to other traditional financial products, services, and activities subject to financial regulation. Some respondents shared that they are currently reviewing their regulatory approaches in relation to DeFi and exploring ways to incorporate DeFi activities into those other regulatory schemes.

Some respondents noted that efforts are underway in their jurisdictions to create new regulatory frameworks specific to crypto-assets, and that those regulatory frameworks, while not specifically targeting DeFi, might in some instances apply to DeFi activities, e.g., where there are centralized issuers or service providers engaged in activity covered by those other regulatory frameworks. For example, while the EU's Market in Crypto Assets (MiCA) regulation does not specifically apply to DeFi, EU-based respondents indicated that MiCA could apply to DeFi where a regulated service/activity is performed/provided/controlled, directly or indirectly, by an identifiable natural/legal person and/or other undertakings, including when part of such activity or service is performed in a decentralized way.

Respondents acknowledged that it may sometimes be difficult to identify the centralized actors involved in DeFi arrangements, which could present enforcement challenges (discussed further below), but in general, those actors would be subject to these regulatory frameworks, as appropriate. Likewise, a purported lack of centralized authority or use of algorithmic rules/processes would not itself exempt such activities from existing financial regulations. Respondents also emphasized that a lot of DeFi activities appear to be "decentralized" in name only.

(b) Recent developments relating to regulatory treatment of DeFi

In addition to an overview of the current regulatory treatment of DeFi activities, the Survey sought information regarding any updates or developments relating to the regulatory treatment of DeFi activities, including, among other things, proposed legislation or regulations relating to DeFi, licensing or registrations relating to DeFi activities, supervisory or enforcement actions relating to DeFi, or other published guidance relating to DeFi.

(i) New or proposed legislation or regulations relating or specific to DeFi activities

The majority of respondents stated that their jurisdictions did not have any new or proposed legislation or regulations specific to DeFi activities, but reiterated that, in general and depending on the facts and circumstances, existing regulatory frameworks that apply to other traditional financial products, services, and activities could apply to DeFi. In addition, and as noted above, some respondents stated that there are currently efforts to create new regulatory frameworks specific to crypto-assets and crypto-asset service providers (e.g., MiCA in the EU), and that those frameworks could also apply to DeFi activities, where appropriate. For example, if a form of central authority/beneficiary is identified for a DeFi activity, then existing or upcoming rules might apply.

One respondent noted several ongoing initiatives in the EU relating to the development of a regulatory framework for DeFi, including an EU pilot project for the development of a technical solution to collect data on a blockchain, with a view to developing a supervisory approach for DeFi activities, 159 and the publication of a report by the EU Commission raising considerations for policymakers when thinking of an approach to the regulation of DeFi. 160

(ii) Licensing or registrations relating to DeFi activities

Respondents generally stated that they do not have specific licensing or registration frameworks relating to DeFi activities, but that, consistent with the approach described above, existing licensing and registration frameworks could apply to certain DeFi activities and that the entities involved in those activities would generally be expected to comply with those existing frameworks. Most respondents stated, however, that there have not been any entities or persons licensed specifically in relation to DeFi activities in their jurisdictions.

(iii) Supervisory or enforcement actions relating to DeFi activities

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See https://commission.europa.eu/publications/commission-implementing-decision-financing-implementation-pilot-project-embedded-supervision_en ("The result of the pilot project should help to inform and prepare the application of new legislative instruments for decentralised finance.").

See https://op.europa.eu/en/publication-detail/-/publication/f689e5b2-4f55-11ed-92ed-01aa75ed71a1/language-en/format-PDF/source-272370364.

Several respondents noted that they have brought public enforcement actions related to DeFi activities under their existing regulatory frameworks, including the U.S. SEC161 and CFTC162, Quebec AMF163, and SC Malaysia164. Another respondent noted that after investigating a DeFi protocol offered in its jurisdiction, the respondent requested that the DeFi protocol stop such activity since it was considered a regulated activity (asset management).

Apart from the above, most respondents stated that there have not been supervisory or enforcement actions focusing on DeFi activities, but a few respondents noted that they are continuing to conduct regulatory activities, including investigations, relating to certain DeFi activities, and that despite the absence of public actions to date, DeFi activities may be subject to existing regulatory frameworks and, where appropriate, regulatory, supervisory or enforcement actions.

Guidance and other assistance for DeFi market participants (iv)

The Survey asked whether respondents have provided DeFi participants with any of the following: guidance related to regulatory requirements and the supervisory approach; warnings or statements over DeFi risks; assistance with licensing or registration; relaxation of, or waivers or exemptions from, certain regulatory requirements; product trial/testing frameworks; or trialing certain technologies with the authority.

A few respondents have published reports or guidance specific to DeFi. One respondent published guidance on DeFi that included a description of DeFi and associated risks and a discussion on the potential applicability of existing regulations to DeFi. 165 Another respondent published a report advising those who would use a Decentralized Autonomous Organization (DAO) or other distributed ledger or blockchain-enabled means for capital raising to take appropriate steps to ensure compliance with applicable securities laws. 166

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(action taken against an issuer of crypto-assets that were qualified as securities (ICO), distributed (among other means) through a DEX).

¹⁶¹ See https://www.sec.gov/news/press-release/2021-145; https://www.sec.gov/news/pressrelease/2018-258.

¹⁶² See https://www.cftc.gov/PressRoom/PressReleases/8478-22; https://www.cftc.gov/PressRoom/PressReleases/8590-22.

See Décision - Autorité des marchés financiers c. Change Marsan inc. - 2021 OCTMF 43 (soquij.qc.ca); Décision - Autorité des marchés financiers c. Hope - 2021 QCTMF 48 (soquij.qc.ca); see also Décision - Autorité des marchés financiers c. CreUnite - 2018 QCTMF 8 (soquij.qc.ca)

¹⁶⁴ See https://www.sc.com.my/resources/media/media-release/sc-takes-enforcement-actions-onbinance-for-illegally-operating-in-malaysia.

¹⁶⁵ See BaFin - Decentralised finance (DeFi) and DAOs.

¹⁶⁶ See https://www.sec.gov/files/litigation/investreport/34-81207.pdf.

Another respondent published a primer explaining smart contract technology and related risks and challenges (as part of a broader body of guidance/information relating to the crypto-asset marketplace). Other respondents noted that although they have not published any guidance specific to aspects of DeFi, they have published guidance relating to crypto-asset activity more generally, including regarding the applicability of their regulatory frameworks to crypto-asset activities and associated risks, which may also apply to DeFi. A number of respondents have also issued public warnings relating to DeFi risks.

In addition to public guidance, a number of respondents noted that they provide informal feedback to written and oral inquiries on matters involving crypto-assets and other financial technology, including those that may involve DeFi, often through an "innovation hub" or the equivalent. These respondents stated that they may engage with entrepreneurs and market participants and assist them, to varying degrees, with questions relating to the applicability of relevant regulatory requirements, including licensing and compliance issues. One respondent also noted that their innovation hub has a specific intake form for inquiries related to DeFi. Several respondents also noted the availability of a "sandbox" or other type of product trial/testing framework in their jurisdiction relating to FinTech more broadly, as well as some development activity relating to DeFi specifically.¹⁷⁰

Finally, one EU-based respondent noted that it engages with market participants as part of its regulatory horizon scanning and has gathered positive feedback regarding the proposed regulation of DeFi. That respondent noted that market participants have expressed an interest for a coordinated international approach to DeFi regulation, in light of the cross-border nature of DeFi activities.

DeFi Activities within IOSCO Member Jurisdictions

(a) DeFi activities

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See https://www.moneysense.gov.sg/articles/2022/10/defi_what-you-need-to-know;

https://www.esma.europa.eu/sites/default/files/library/esa_2022_15_joint_esas_warning_on_crypto-assets.pdf

(focusing on crypto-assets generally but mentioning DeFi).

See, e.g., https://www.mas.gov.sg/news/media-releases/2022/first-industry-pilot-for-digital-asset-and-decentralised-finance-goes-live.

See https://www.cftc.gov/PressRoom/PressReleases/7847-18.

See, e.g., https://www.cftc.gov/PressRoom/PressReleases/8336-20; https://asic.gov.au/regulatory-resources/digital-transformation/crypto-assets/; https://www.osc.ca/en/securities-law/instruments-rules-policies/2/21-329/joint-canadian-securities-administratorsinvestment-industry-regulatory-organization-canada-staff; https://www.bancaditalia.it/media/approfondimenti/2022/cripto/Comunicazioni-della-Banca-d-Italia-DLT-cripto.pdf; https://www.sfc.hk/en/News-and-announcements/Policy-statements-and-announcements/Statement-on-regulatory-framework-for-virtual-asset-portfolios-managers; https://apps.sfc.hk/edistributionWeb/gateway/EN/circular/intermediaries/supervision/doc?refNo=18EC77; https://apps.sfc.hk/edistributionWeb/gateway/EN/circular/intermediaries/supervision/doc?refNo=22EC10.

The Survey sought information regarding the following DeFi activities or business models observed in IOSCO member jurisdictions: DAOs; stablecoin offerings and use; credit/lending; decentralized exchanges/trading; liquidity or investment-type pooling; automated market marking; mining/staking/pooling; yield farming; insurance/risk management; asset management; and derivative and other synthetic product offerings. Several respondents said that they have observed all of the above activities within their jurisdiction. Most of the respondents said that they have observed some, but not all, of the activities. Some respondents noted that they have not observed any of the aforementioned DeFi activities within their jurisdictions.

Several respondents noted that based on publicly available sources, it appears that DeFi activities may originate from and/or be available in their jurisdictions, but due to the pseudonymous or anonymous nature of blockchains, it is difficult to identify exactly where the activity is and whether it does involve persons in their jurisdictions. It appears that most DeFi activities are open to participation by all persons, including retail investors, across borders.

One respondent noted that they have evaluated the types of persons and entities who participate in DeFi. Based on that respondent's initial observations, including anecdotal information, there are a variety of persons and entities that have a current or future interest in DeFi, including: (i) brokers, dealers and investment advisers; (ii) token issuers, including through the use of smart contracts; (iii) token distributors; (iv) investors (including institutions and venture capital firms); and (v) developers.

One respondent also noted that due to the lack of transparency in the DeFi "market", there is a lack of data about the level of activity of each of the participants at any particular level of DeFi structure, platform, or layer. The ability to evaluate each type of current DeFi product, service, arrangement and activity is therefore limited. However, based on a review of some of the more active DeFi platforms, that respondent has observed that there often are multiple components and a combination of different types of activities. Thus, while that respondent has observed market activity in each of the types of DeFi activities listed in the Survey, such activity may not be engaged in on a standalone basis, but instead may be part of a larger arrangement. For example, a single entity may create a decentralized trading platform, offer what is termed a *governance token*, may create a derivative product, and may use a crypto-asset termed a *stablecoin*. In addition to the lack of transparency in, and the constantly evolving nature of, DeFi structures, in some cases the project's public statements may not fully or accurately describe how the structure actually operates and what is being offered.

Respondents reported observing the following specific types of DeFi activities in their jurisdictions:

<u>Stablecoin offerings and use.</u> A number of respondents said that they are aware of
various types of stablecoins that are in circulation. These stablecoins have varying
characteristics. For example, the stablecoin may be *pegged* or *linked* in some way to
a reference asset, which could be fiat currencies, another crypto-asset, a real asset,

or some combination of assets. Certain stablecoins claim to provide holders a 1:1 direct redemption right against an issuer or reserve of assets while others do not.¹⁷¹ In addition to the use of stablecoins on crypto-asset trading platforms, participants in DeFi structures may use stablecoins as one side of the trade in DeFi transactions. An example would be the use in purchase and sale transactions with AMMs that often allow for stablecoins to be deposited into smart contracts formed as liquidity pools. In these transactions, a combination of stablecoin and some other crypto-asset is deposited through a smart contract into a pool of crypto-assets. Market participants could exchange one token for the other at an exchange rate set by an AMM that typically uses a mathematical formula driven by the relative proportion of the two types of crypto-assets in the pool to determine the exchange rate. Stablecoins also are often used in DeFi structures as collateral deposited into a protocol to support lending and borrowing activities. A number of DeFi structures also issue their own stablecoins.

- <u>Credit/Lending.</u> Respondents have observed arrangements that appear to provide for a lending structure in return for a payment. In these structures, crypto-asset trading platforms, smart contracts, or other market participants create a credit/lending pool. They borrow crypto-assets from clients or other market participants and lend these crypto-assets to other market participants in return for a fee. In a number of the smart contract structures, participants may deposit one type of crypto-asset as collateral and in return, borrow a different crypto-asset from the credit/lending pool. To date, many credit/lending pools (including smart contracts establishing such pools) or lending platforms require, as a condition to participation, that borrowers provide an amount of crypto-asset collateral well in excess of the value of the crypto-assets borrowed.
- <u>Decentralized Exchanges/Trading.</u> Respondents have observed entities that claim to have set up DEXs that purportedly allow for the trading of crypto-assets (referred to as *tokens*) between parties, including tokens that appear to be securities, by both retail and institutional investors. Initially, these DEXs used an order book structure and used the ox protocol as the underlying technology. This enabled any person to list orders, but trading was relatively slow and expensive with gas fees of \$50-100 [per transaction]. Although *order book* DEXes now face competition from the AMMs discussed below, there are innovations, including DEXes that claim to offer high-speed, on-chain order books.
- <u>Liquidity or Investment-type Pooling / Automated Market Making.</u> Respondents
 have observed arrangements involving the creation, through smart contracts, of
 liquidity pools or AMMs. AMMs generally hold two types of crypto-assets and offer
 users the ability to trade one of the crypto-assets in the pool for the other at a price

One respondent referenced the IOSCO stablecoin report, FSB stablecoin reports, and US PWG stablecoin reports for further information.

determined by a constant product function. Users that deposit tokens to the AMM, providing liquidity, often receive another crypto-asset called a *liquidity provider token*, that may entitle the holder to a portion of fees generated through the use of the AMM. AMM protocols can also issue governance token. Traders can transact with the pools directly or through entities that provide *routers* that seek to find the best prices across many AMMs. Many of these smart contracts and structures are copies of or based on code written originally by Uniswap. The liquidity/AMM pools appear to be funded (or *capitalized*) by market participants who seek a return based on the trading profits of the AMM. Sometimes, participants share in fees generated by the AMM/liquidity pool as part of the trading activities, often through liquidity provider tokens, governance tokens and also through secondary trading on crypto-asset trading platforms of the liquidity provider tokens and governance tokens.

- Governance Tokens. Governance tokens are issued, directly or indirectly, by an entity establishing a particular platform or system and are issued in different manners and for different purposes. For example, in some cases governance tokens are issued to persons participating in transactions on an entity's blockchain or through their platform or system or upon presentation of another crypto-asset issued through their platform or system. Others may be issued as additional consideration for equity and other investments in an entity's platform or system, and these governance tokens could be issued as rewards to developers or employees. These tokens may be associated with certain voting rights over certain aspects of a DeFi protocol.
- Yield Farming / Asset Management. Respondents have observed arrangements that involve what is called yield farming. Generally, yield farming involves a series of transactions, involving borrowing and lending crypto-assets, in which the party attempts to start purchases and sales with one asset and through a daisy-chain engages in a series of purchases and sales that result in a profit on each one. For example, this can involve a person holding Token A who lends that to a lending/credit pool to get Token B, and then they deposit Token B in a liquidity pool and get Token C. This transaction enables potential returns at each level. One respondent has observed yield farming arrangements that offer to manage borrowing and lending of client or market participants (including retail investors) crypto-assets using multiple lending pools and multiple platforms. For example, some yield farming entities offer to take crypto-assets from another market participant (including retail investors) in return for a promise of a return, and then will deploy these assets in various DeFi structures and arrangements. The types of uses may involve collateral for crypto-asset loans to the yield farming operator, or as deposits into AMM/liquidity pools.
- Insurance/Risk Management. Respondents have observed arrangements that
 appear to incorporate DeFi components in order to pay a counterparty for losses
 related to DeFi transactions. For example, people sell digital tokens that purport to

entitle the holders to receive money if an event occurs. Often, these arrangements require off-chain assessments and inputs, provided by humans and/or oracles. One respondent has seen examples of insurance coverage that would be triggered by oracles that identify: (1) a bug in a smart contract; (2) customer losses due to theft from a crypto-asset trading platform that holds customer crypto-assets; or (3) a flight being delayed or cancelled. One respondent noted that while these protocols state that they are insurance products, it does not appear that the entities offering the insurance are regulated insurance companies.

• Derivative & other Synthetic Product offerings. Respondents have observed DeFi structures that offer digital tokens, through smart contract pools, that are marketed as providing synthetic exposures to other financial instruments, including securities and commodities. For example, some entities claim that they have issued crypto-assets and created systems (through their smart contracts) that will cause the value of the crypto-asset to rise, and fall based on the performance of a referenced asset or index, such as a stock or commodity. It is not clear what type of derivative exposures these asserted synthetic crypto-asset structures provide, such as whether they provide total return exposure (payments based on the performance of the linked asset, including any payments on such assets, such as dividends or payments on common stock) or event exposures (payments based on the occurrence of an event).

Other services or activities. Respondents have also observed the following:

- One respondent has observed DeFi offerings of what appear to be cryptoasset notes (borrowing by an entity and lending by a market participant) that are stated to have a return based on an investment in physical assets. There may be elements of liquidity or creditor pools involved in these structures. These types of crypto-asset structures also could involve other types of investment activities and offer profit sharing based on the performance of the investments.
- One respondent has observed DeFi prediction markets that allow bets to be made through the creation of smart contract pools. These include structures that offer the ability for a user to create an event contract that will pay off based on future events, for example the outcome of an election or economic events. The participants creating that event contract will receive a fee and for purchasers of the crypto-asset representing the contract exposure, they may trade the crypto-asset during the life of the contract and, at the end of the contract, the holder winning the bet will be paid through a smart contract.
- o In addition to the various categories of DeFi activity, several respondents noted that they have observed an increasing role by centralized intermediaries (whether platforms or other types of FinTech companies) facilitating retail consumer access to DeFi protocols, which may indicate increasing interlinkages between DeFi and CeFi.

(b) Challenges in regulating or attempting to regulate DeFi activities

Respondents highlighted a number of challenges in regulating or attempting to regulate DeFi activities, including the following:

- Determining how existing regulatory frameworks should be applied to DeFi activities. Respondents noted that determining whether DeFi activities, including new/emerging types of services, fall within existing regulatory frameworks can be challenging. Respondents attributed these challenges to a few different factors. One respondent noted that the inner workings of DeFi protocols may not be very transparent or easy to understand, such that determining how existing regulations should be applied can be difficult and time consuming. And although some DeFi activities are similar in risks and economic substance as existing regulated activities, they may not fall so neatly within existing legal definitions because of the way they are structured or offered, e.g., using smart contracts. In addition, there may be challenges in determining which transactions and participants and which entities facilitating the transactions are subject to existing regulations. This challenge implicates questions such as which activities of software developers of smart contracts would require registration as a regulated entity, and how decentralization of a project potentially complicates application of regulatory requirements.
- Lack of, or difficulty identifying, central actors to whom existing regulation should apply. Respondents noted that there may be limitations in exercising existing regulatory and enforcement authorities due to the potential absence of, or inability to identify, a central actor who can be held accountable. Given the alleged lack of central authority (i.e., due to distributed governance and/or distributed code development and maintenance), it can be challenging to attribute the provision of DeFi services, and responsibility for compliance, to a responsible party or appropriate stakeholders (e.g., who is responsible for operating or implementing changes to a given protocol). Respondents indicated that this uncertainty on who should be held accountable for DeFi activities is exacerbated given that smart contracts run autonomously to provide services and that governance may be decentralized to varying degrees and involve the use of governance tokens and / or DAOs. Thus, even when an authority determines that a certain DeFi activity falls within its regulatory perimeter, there may not be identifiable persons or legal entities to hold responsible or engage on an ongoing basis in relation to complying with the applicable regulations. One respondent noted that "true DeFi" (if it exists), where all actors would be unknown, might create insurmountable challenges in terms of who should be in charge of ensuring compliance with the regulatory requirements. Business continuity, market integrity, and investor protection concerns might also be exacerbated in such circumstances.
- <u>Lack of information</u>. Related to the above, respondents noted a general lack of transparency and/or reliable information relating to DeFi activities, including a lack of data on the size and scope of DeFi activities in jurisdictions, which leads not only

to difficulties in applying existing regulations (as noted above), but also to other issues, including challenges in supervising such activities and legal and evidentiary challenges when trying to enforce regulations relating to those activities. Respondents noted that the lack of data and transparency on the developers and operators behind the DeFi protocols, i.e., pseudonymity, makes it hard to monitor DeFi activities or gather information and evidence against bad actors. This presents particular challenges for enforcement agencies to prove a case, as it may be difficult to identify stakeholders and to determine the "victims." Related to that, respondents noted that there is a need to build up crypto-asset enforcement capabilities, as record-keeping is done on public blockchains and within smart contracts. Respondents noted that the prevailing pseudonymity in DeFi also makes it very challenging to assess financial risks such as credit, liquidity and leverage risk, as well as the interconnectedness with the traditional financial system and other segments of crypto-asset markets (e.g., CeFi) and also with third-party technology providers.

- Technological complexity of DeFi. Respondents also cited difficulties in understanding the details of DeFi activities, which are technical and complex, noting that available descriptions of DeFi activities (where they exist) are often basic and insufficient for a comprehensive legal assessment. In certain cases the ability to read and understand smart contracts may be required, as many protocols publish only rudimentary information and descriptions. Related to this, respondents noted a lack of resources and know-how to monitor and interpret these activities, and that existing information gathering tools and methods may not be effective in analyzing and monitoring DeFi activity, especially given the pseudonymous nature of the parties and information. Respondents noted that even if data is available on public blockchains, the capabilities to aggregate, read, and analyze such that may be limited. The quick pace of innovation exacerbates this and other challenges, making it difficult for regulators to keep up with DeFi market developments.
- Cross-border issues. Respondents noted that the owners and operators of DeFi products and services may be based in multiple jurisdictions and providing their offerings on a cross-border basis, such that regulatory cooperation is essential. In the absence of such cooperation, it would be difficult to identify the applicable jurisdictions and pursue enforcement actions against responsible parties located abroad. In addition, given the borderless nature of DeFi activities, there may not always be a regulatory nexus to assert jurisdiction over the activities. For instance, where investors in one country access a DeFi platform on a permissionless blockchain and trade digital tokens, the regulators may have challenges enforcing that jurisdiction's regulations against the platform where there is no presence or solicitation in the country. Respondents indicated that the borderless nature of DeFi activities calls for a globally coordinated approach to regulation, including better international cooperation among regulators to strengthen surveillance, develop consistent regulations, and enhance information gathering.

• Consumer protection challenges. Respondents noted that although the code that facilitates DeFi transactions is often open source, most consumers do not take the time or have the expertise to review the code and instead rely on other factors when deciding to trust that transactions will process as expected. There have been numerous instances over the years of the economic incentives and the smart contract security of DeFi protocols being exploited and leading to individual or network-wide economic loss. Accordingly, respondents noted concerns with consumer protection/lack of awareness of risk related to such transactions.

(c) Developments or trends in DeFi market

Respondents were asked to describe developments or trends in the DeFi market that require particular attention from a regulatory and supervisory perspective. Some of the respondents reiterated some of the same aforementioned challenges in regulating or attempting to regulate DeFi as issues that require attention from regulators. In addition, respondents noted the below developments or trends:

- The speculation, embedded leverage, re-hypothecation of collateral, and interconnectedness that exist within the DeFi ecosystem (see, e.g., the Terra's UST/Luna collapse), and the lack of data / transparency on such interconnections;
- The financial stability implications arising from the interconnectedness within the DeFi and crypto-asset ecosystems, as well as between DeFi and TradFi;
- The emergence of centralized intermediaries, which purport to make it easier for retail clients to overcome technical barriers to access DeFi;
- As an example of some of the above, crypto-asset service providers offering attractive, and likely unsustainable, yields for customers that hold crypto-assets with them, where the returns are generated through staking and lending activities (where the service providers participate in unregulated DeFi protocols using customers' crypto-assets);
- Sources of vulnerability specific to DeFi allowing attack vectors, such as governance attacks (manipulation of DeFi protocol design parameters to steal liquidity from deposits in the protocol) or flash loans (transactions allowing users to borrow an asset without providing any upfront collateral);
- Market integrity issues within the DeFi ecosystem, e.g., price oracle manipulation, front-running transactions, and other types of market manipulative activities; and
- Investor protection concerns arising from the increasing number and scale of successful cyber attacks, as well as frauds and scams, involving DeFi protocols.
- (d) Organizational structure to responding to DeFi, development of tools and techniques, and internal expertise related to DeFi

The Survey sought information regarding who within respondents' organizations take the lead in responding to DeFi. Most of the respondents noted that DeFi issues or developments are monitored and assessed in the first instance by a centralized team, whether it be an innovation or FinTech-focused hub, department, unit, or coordination

team, and then referred to other subject matter experts within the organization as appropriate (e.g., for licensing/registration, enforcement, policy development, etc.). The respondents indicated that these teams generally take the lead in responding to DeFi related questions, tracking DeFi market developments and reviewing academic and other source materials. A few respondents stated that they are also in contact with other subject matter experts, such as those in academia and industry, and have attended trainings to develop internal expertise related to DeFi, blockchain analytics, smart contract audits, and other relevant topics.

The survey responses indicate that respondents generally have not developed their own tools or techniques to obtain data on the level of DeFi activities and models. One respondent noted, however, that in addition to its innovation group, the respondent has a dedicated supervisory technology office, which has been conducting research to gain a better understanding of areas like crypto, blockchain, DeFi and web3.o. That group is exploring relevant tools, data sources and information sources that can contribute to the understanding, and engaging external researchers, industry players, and DeFi experts to understand the latest technology, products, trends and risks. They also support knowledge sharing with other departments and organize courses to improve the organization's knowledge in crypto/DeFi area.

(e) Risks to and protection of participants, stakeholders, and markets

The Survey asked respondents to describe risks that they have observed to participants, stakeholders, and markets related to DeFi. A few of the respondents reiterated some of the same challenges discussed above relating to the regulation of DeFi, including issues relating to the applicability and effectiveness of existing laws for DeFi, the anonymous and pseudonymous nature of DeFi activities, a lack of understanding and information relating to DeFi activities, the cross-border nature of DeFi activities, and the extremely fast pace development.

In addition to those challenges, one respondent noted that in general, the risks that arise in traditional securities markets, such as counterparty risk, liquidity risk, and risk of fraud and loss of investor funds, may be implicated in the DeFi market as well. In addition, to the extent that DeFi markets and DeFi market participants, such as intermediaries, fail to comply with applicable laws and regulations, investors and other market participants will generally lack investor protections and other protections, and are subject to greater risk that they may be defrauded, with limited ability for redress, either through private means or government enforcement. In addition, to the extent that DeFi market participants engage in activity that is subject to regulation, the failure to comply with regulatory requirements puts investors and connected markets, including securities markets, at risk.

Respondents also noted other risks for participants, stakeholders, and markets related to DeFi, including:

 Governance risks, including opaque governance structures, concentration of governance tokens, and differences between perceived and actual levels of decentralization

- Lack of prudential measures for certain DeFi services, which could result in investor losses
- Technology and cybersecurity risks and vulnerabilities, including code hacks or key theft, smart contract risk (i.e., the technical level of security of the smart contract code), coding errors within the smart contracts or underlying protocols, and other technical malfunctions
- Inadequate technology and cybersecurity controls and business continuity planning and disaster recovery procedures
- Lack of information on and availability of identifiable responsible operators in case of malfunctions, legal disputes, etc.
- Inadequate disclosures to / lack of awareness by investors of, among other things, how DeFi protocols operate, the underlying risks of a DeFi service, product or activity, and other information, such as the business model, services offered, related parties, and conflicts of interest of DeFi market participants
- Market manipulation and fraud, including code or oracle exploits, rug pulls, protocol back doors, and fraudulent platforms
- Wrapping complexity, where derivatives of tokens are repeatedly created, giving rise to new risks and interconnections between different protocols
- AML risks, including the movement of hacked / stolen funds and the potential lack of legal responsibility for DeFi protocols due to automation
- Reliance on third-party information providers or validators, such as oracles and other outside data sources, could potentially increase risks if those third-party sources produce faulty information—either because it is inaccurate or it has been manipulated

The Survey also asked whether jurisdictions have evaluated opportunities for DeFi arrangements to comply with regulations that aim to ensure protection of market participants, stakeholders, and markets. In general, respondents underscored that their innovation/FinTech hubs welcome discussions with DeFi market actors about product development (and in some cases, have engaged in such discussions), and that the general expectation would be for DeFi activities to comply with existing/planned regulatory frameworks, as appropriate. One respondent noted that given the permissionless nature of most DeFi arrangements, these arrangements would likely encounter difficulties in attempting to comply with certain regulatory requirements. Along those same lines, another respondent stated that a key requirement to ensure compliance with existing laws and regulations would likely be the presence of an accountable natural/legal person identifiable as responsible for the performance of the relevant activities.

One respondent noted that a registered firm in its jurisdiction plans to offer a private fund that will engage in DeFi activities (including staking, lending. and participation in liquidity

pools). Terms and conditions were imposed on the fund manager to address the risks of those activities, and the terms and conditions are publicly available.¹⁷²

(f) Fraud, code exploits and operational risks related to DeFi

The Survey sought information from respondents regarding publicly reported details of fraud, code exploits and operational risks related to DeFi activity in their jurisdictions. Respondents acknowledged public reports of frauds, code exploits, and operational risks involving DeFi, with one respondent noting that public reports indicate that fraud is common in DeFi.¹⁷³ Apart from the enforcement actions discussed above, however, most respondents did not identify any specific instances or details of fraud, code exploits, or operational risks relating to DeFi in their jurisdictions. Several respondents explained that for most publicly reported cases, it is unclear which jurisdiction(s) are impacted as DeFi platforms typically operate cross-border/globally.

Regulatory Engagement

The Survey sought information regarding which jurisdictions have been engaging directly with DeFi market participants and stakeholders, as well as academics, researchers, or others aside from DeFi market participants or stakeholders, to evaluate DeFi and monitor market trends. A number of respondents noted that they have, through their innovation or FinTech hubs, engaged with participants involved in the DeFi space in an effort to better understand its structure, scope, and implications. This includes developers, investors and other interested parties, including academics, researchers, and other non-industry members of the public, to varying extents, ranging from engagement at industry events to bilateral meetings.

Respondents gave a number of examples of such engagement, including:

- One respondent held a DeFi workshop with participants from the financial industry, industry associations, business consultants, and law firms. That respondent has also discussed DeFi projects with supervised entities and new projects on a bilateral basis.
- One respondent is carrying out a joint research project with a prominent business school with the goal of measuring interconnections between crypto-assets and traditional financial assets and identifying the primary main transmission channels, the output of which will be contagion risk indicators that will be published in a report.

See https://info.securities-administrators.ca/nrsmobile/nrssearch.aspx (search for "AQN Asset Management LTD" under "Firm," click on the name of the firm underlined in blue, and then scroll under Ontario, Terms & Condition 1. "Click for Details").

See, e.g., Theodore Claypoole, *Ubiquitous and Creative Fraud is Regular Feature of Defi*, NAT'L L.REV., Apr. 27, 2022, available at https://www.natlawreview.com/article/ubiquitous-and-creative-fraud-regular-feature-defi; CHAINALYSIS, *supra* note 21; ELLIPTIC, THE STATE OF CROSS-CHAIN CRIME (Oct. 2022), available at https://www.elliptic.co/resources/state-of-cross-chain-crime-report.

- One respondent noted that its jurisdiction has established a committee, composed
 of lawyers, academics, and other qualified individuals, that is currently conducting
 work in relation to the DeFi space.
- One respondent noted that it has established a FinTech advisory group, composed
 of experts from academia, consulting firms, the central bank, and industry, which
 has been regularly providing input to on FinTech matters, including DeFi, for several
 years.
- Several respondents noted that they have engaged some subject matter experts, such as blockchain analytics companies and law firms, to better understand DeFi and DeFi market trends, including the different types of DeFi and how they are structured.
- Several respondents noted that they also include academic and other source materials in their horizon scanning of developments in the DeFi space.

Respondents noted several challenges that they have encountered in engaging with DeFi market participants. One of the challenges noted by multiple respondents is the decentralized nature of DeFi activities, which appears to result in a lack of legal entities or offices and anonymity. Further, some respondents commented that it could be difficult to fully understand and keep track of the DeFi market due to its complex structures, business models, products, and technologies, which are constantly evolving. Another challenge that was noted (and also discussed above) is the difficulty in finding reliable sources of data, e.g., on Total Value Locked, the number of DeFi protocols, and DeFi volumes, to enable such engagement.

Exhibit E

FOR DISCUSSION PURPOSES ONLY January 28, 2025

Records Responsive to Narrowed Subpart 1¹ of FOIA Request No. 23-03269-FOIA in History Associates, Inc. v. SEC, 24-cv-1858 Preliminary Vaughn Index for the Securities and Exchange Commission's Withholdings from the 1/28/2025 Release of

	Email/Email Thread	Author(s)/	Description of Withheld	FOIA	Basis for
	Date(s) and Time(s)	Recipient(s)	Information/Document(s)	Exemption(s)	Withholding
1.	March 10, 2023	Gary Gensler,	In an email thread between SEC staff,	Exemption 4	The email is intra-agency and contains analysis prepared by
	(10:31 am; 7:55 pm)	Valerie Szczepanik,	staff analysis of a research paper, and		an SEC attorney in connection with the attached research
		Corey Frayer,	the attached research paper, were	Exemption 5	paper. Disclosure of the attachment would reveal
		Samantha Ostrom,	withheld.	(deliberative	information contained in the email. The withheld records
		David Hirsch,		process	are deliberative because they reflect discussion about what
		Michael Gaw	The email addresses of SEC staff, as	privilege)	issues the SEC attorney proposed that Chair Gensler should
			well as the name of a third-party		focus on. The withheld information is pre-decisional
			individual, were withheld.	Exemption 6	because a decision had not been made about the effect of
					the issues discussed in the email.
					Additionally, the withheld attachment consists of a
					research paper prepared by a third-party individual. The
					SEC's understanding is that this paper has not been
					published and is not otherwise publicly available. Should
					Plaintiff seek the release of the attachment, the SEC will
					move forward with the confidential treatment process
					pursuant to the SEC's FOIA regulations.
					SEC staff have a privacy interest in their email addresses,
					and there is no public interest in knowing their contact
					information. Additionally, individuals outside of the SEC
					who provide information to the SEC have a privacy interest
					in their names, and there is no public interest in knowing
					their names.
					Portions of the email have been released.

¹ Narrowed subpart 1 seeks all documents and communications that SEC Chair Gary Gensler sent, received, or considered concerning Ethereum's shift to a proof-ofstake mechanism. FOR DISCUSSION PURPOSES ONLY January 28, 2025

Preliminary Vaughn Index for the Securities and Exchange Commission's Withholdings from the 1/28/2025 Release of Records Responsive to Narrowed Subpart 21 of FOIA Request No. 23-03269-FOIA in History Associates, Inc. v. SEC, 24-cv-1858

	Document Date(s) and	Author(s)/	Description of Withheld	FOIA	Basis for
	Time(s)	Recipient(s)	Information/Document(s)	Exemption(s)	Withholding
1.	December 17, 2019	Amy Starr (SEC staff);	In an email thread between SEC staff	Exemption 6	SEC staff and third-party individuals have a privacy
	through February 12,	Michael Zuppone (Paul	and a third-party individual, the email		interest in their contact information, and there is no
	2020	Hastings LLP)	address of SEC staff, the mobile		public interest in knowing their contact information.
			number of a third-party individual,		
			and the access information for an SEC		Portions of the email thread have been released.
			Webex call were withheld.		
2.	March 18, 2022 (5:49	Jeffrey Foor (SEC staff);	In an email thread between SEC staff	Exemption 6	SEC staff and third-party individuals have a privacy
	pm);	Bo Howell (Fin Tech	and a third-party individual, the email		interest in their contact information, and there is no
	July 22, 2022 (2:11 pm);	Law)	address of SEC staff and the phone		public interest in knowing their contact information.
	July 25, 2022 (3:08 pm)		number of a third-party individual		
			were withheld.		Portions of the email thread have been released.

¹ Narrowed subpart 2 seeks all documents and communications sent by the SEC to third parties regarding Ethereum's shift to a proof-of-stake mechanism.

	Document Date(s) and	Author(s)/	Description of Withheld	FOIA	Basis for
	ııme(s)	Kecipient(s)	Information/Document(s)	exemption(s)	Withholding
æ.	April 12, 2022 (3:05	Staff from the SEC,	An email thread between federal	Exemption 5	The withheld email thread is inter-agency pursuant to
	pm);	Treasury Department	agency staff about drafting two	(deliberative	the consultant corollary. The withheld email thread is
	April 28, 2022 (8:19	("Treasury"),	Organisation for Economic Co-	process	inter-agency and reflects discussion concerning the
	pm)	Commodity Futures	operation and Development	privilege)	drafting of two reports. Specifically, Treasury staff
		Trading Commission	("OECD") reports was withheld.		sought comments and edits from federal agency staff
		("CFTC"), Federal		Exemption 6	about two reports, and the SEC sent their comments
		Deposit Insurance	The attachment to an email in the		and proposed edits on one report to Treasury staff.
		Corporation ("FDIC"),	thread, which consists of a draft of		The withheld information is deliberative because it
		Federal Reserve Board	the report "Institutionalisation of		reflects discussion about agency staff's comments on
		("FRB"), Federal	crypto-assets and DeFi–TradFi		the draft reports and the process of drafting and
		Reserve Bank of New	interconnectedness," was also		editing the reports. The withheld information is pre-
		York, the National	withheld.		decisional because staff were in the process of
		Association of			drafting the reports.
		Insurance	The email addresses and contact		
		Commissioners	information of agency staff were also		The withheld attachment consists of a draft report.
		("NAIC")	withheld.		The draft report is deliberative because it differs from
					the final report and reflects SEC comments and
					proposed edits. The document is pre-decisional
					because it is a draft that was not adopted as the final
					report.
					Staff have a privacy interest in their contact
					information, and there is no public interest in
					knowing their contact information.

	Document Date(s) and	Author(s)/	Description of Withheld	FOIA	Basis for
	Time(s)	Recipient(s)	Information/Document(s)	Exemption(s)	Withholding
4.	May 17, 2022 (10:21	Corey Frayer (SEC);	An email thread between SEC and	Exemption 5	The withheld information is contained within an
	am, 11:15 am, 4:04 pm)	Jonathan Rose	Treasury staff regarding issues	(deliberative	inter-agency email, and it reflects discussion between
		(Treasury)	discussed in the Financial Stability	process	federal agency staff concerning issues relating to the
			Oversight Council was withheld.	privilege)	development of public policy. The withheld
					information is deliberative because it reflects
			The email addresses of SEC and	Exemption 6	deliberations over what issues to focus on and
			Treasury staff were also withheld.		analysis of those issues in the process of developing
					policies. The withheld information is pre-decisional
					because federal agency staff were in the process of
					developing policies.
					Agency staff have a privacy interest in their contact
					information, and there is no public interest in
					knowing their contact information.

5.	June 3, 12, 24, 27, 29,	Staff from the SEC,	Email threads between federal	Exemption 5	The withheld email threads are inter-agency pursuant
	2022;	Treasury Department,	agency staff about drafting the White	(deliberative	to the consultant corollary. The threads reflect
	July 7-8, 14-15, 25,	White House Office of	House report "Climate and Energy	process	discussion between federal agency staff concerning
	2022;	Science and Technology	Implications of Crypto-Assets in the	privilege)	the drafting of the report "Climate and Energy
	August 4, 7-9, 12, 23,	Policy staff, White	United States" were withheld. The		Implications of Crypto-Assets in the United States."
	26, 2022	House Council of	attachments to certain emails in the	Exemption 6	Additionally, the threads contain discussion about
		Economic Advisers,	threads, which consist of drafts of the		policy issues related to the report. The withheld
		Executive Office of the	report, were also withheld.		information is deliberative because it reflects
		President, FRB, White			discussion and questions about what topics to include
		House Council on	The contact information of agency		in the report, agency analysis and recommendations
		Environmental Quality,	staff, as well as access information		on particular issues and proposed language, and the
		Office of Management	for a White House Zoom call, were		process of drafting and editing the report. The
		and Budget,	also withheld.		withheld information is pre-decisional because
		Environmental			federal agency staff were in the process of drafting
		Protection Agency,			the report.
		White House National			
		Security Council,			The withheld attachments consist of versions of the
		Executive Office of the			draft report. The drafts of the report are deliberative
		President, CFTC,			because they contain questions about the objectives
		Department of			of the report, as well as comments and proposed
		Commerce,			edits, and differ from the final report that was
		Department of Trade,			published in September 2022. The attachments are
		Department of			pre-decisional because they are drafts that were not
		Defense, State			adopted as the final report.
		Department,			
		Department of			Agency staff have a privacy interest in their contact
		Transportation,			information, and there is no public interest in
		Institute for Defense			knowing their contact information.
		Analyses, Department			
		of Energy, National			
		Security Agency,			
		Central Intelligence			
		Agency, Consumer			
		Financial Protection			
		Bureau, National			
		Science Foundation,			
		Department of Labor,			
		USAID, FDIC, National			

	Document Date(s) and	Author(s)/	Description of Withheld	FOIA	Basis for
	Time(s)	Recipient(s)	Information/Document(s)	Exemption(s)	Withholding
7.	August 12, 15, 2022;	Staff from the SEC,	Email threads between federal	Exemption 5	The withheld email threads are inter-agency pursuant
	October 19, 2022	Financial Stability	agency and foreign regulatory and	(deliberative	to the consultant corollary. The withheld email
		Board, European	banking entity staff about drafting a	process	threads are inter-agency and reflect discussion
		Central Bank, Federal	non-public report about the crypto-	privilege)	concerning the drafting of a report about the crypto-
		Reserve Bank of New	asset sector was withheld. The		asset sector. The withheld information is deliberative
		York, Treasury, Bank of	attachments to certain of the emails	Exemption 6	because it reflects discussion about SEC staff's
		England, Hong Kong	in the thread, which consist of drafts		comments on the draft report, proposed edits to
		Monetary Authority,	of the report, were also withheld.		language in the report, and the process of drafting
		European Securities			and editing the report. The withheld information is
		and Markets Authority,	The contact information of staff were		pre-decisional because staff were in the process of
		Banque de France,	also withheld.		drafting the report.
		Japan Financial Services			
		Agency, European			The withheld attachments consist of drafts of the
		Commission, European			report. The draft reports are deliberative because
		Banking Authority, De			they differ from the final report and reflect
		Nederlandsche Bank,			comments and proposed edits from SEC staff. The
		Bank for International			documents are pre-decisional because they are drafts
		Settlements			that were not adopted as final.
					Staff have a privacy interest in their contact
					information, and there is no public interest in
					knowing their contact information.

Document Date(s) and		Author(s)/	Description of Withheld	FOIA	Basis for
_	Recipient(s)		Information/Document(s)	Exemption(s)	Withholding
October 4, 11, and 21, Staff from the SEC,	Staff from the SEC,		Email threads between federal	Exemption 5	The withheld email threads are inter-agency pursuant
2022 Treasury, CFTC, FDIC,	Treasury, CFTC, FDIC,		agency staff about drafting OECD	(deliberative	to the consultant corollary and reflect discussion
FRB, NAIC, Federal	FRB, NAIC, Federal		reports were withheld. The	process	concerning the drafting of OECD reports. Specifically,
Reserve Bank of New	Reserve Bank of New		attachments to certain of the emails	privilege)	Treasury staff sought comments and edits from
York	York		in the thread, which consist of drafts		federal agency staff about the reports, and the SEC
			of the reports "Lessons from the	Exemption 6	sent their comments and proposed edits to Treasury
			Crypto Winter DeFi versus CeFi,"		staff. The withheld information is deliberative
			'Environmental Impact of Digital		because it reflects discussion about agency staff's
4	4	⋖	Assets and Crypto-Assets," and a		comments on the draft reports and the process of
th	th	t	third report about "decentralized		drafting and editing the reports. The withheld
fir	fir	Ęį	finance," were also withheld.		information is pre-decisional because staff were in
					the process of drafting the reports.
<u> </u>	Th	丘	The contact information of agency		
sta	sta	sta	staff were also withheld.		The withheld attachments consist of draft reports.
					The draft reports are deliberative because they differ
					from the final reports and reflect SEC comments and
					proposed edits. The documents are pre-decisional
					because they are drafts that were not adopted as the
					final reports.
					Staff have a privacy interest in their contact
					information, and there is no public interest in
					knowing their contact information.

Exhibit F

Nestor, Branton

From: Verdi, Alexandra

Sent: Friday, January 31, 2025 3:03 PM

To: Harper, Nick
Cc: Bond, Jonathan C.

Subject: RE: History Associates Inc. v. SEC - Records release

Follow Up Flag: Follow up Flag Status: Flagged

This Message Is From an External Sender

This message came from outside your organization.

Hi Nick,

With respect to the responsiveness criteria for narrowed subpart 2, I disagree that we have "improperly limited" our production. Narrowed subpart 2 seeks "all documents and communications sent by the SEC to third parties regarding Ethereum's shift to a proof-of-stake mechanism." During our November 8, 2024 hearing, Judge Reyes noted, and you agreed, that the narrowed subparts should be "an initial, small subset of things." Tr. 17:17-22. Judge Reyes also stated that we should "figure out some way to get [Plaintiff] what [it] wants without having to look at every document ever created on this issue." Tr. 18:22-25.

Based on this discussion, we conducted the following searches for records responsive to narrowed subpart 2. We spoke to the Division of Enforcement staff who worked on the Ethereum 2.0 investigation and gathered third-party correspondence and subpoenas from that investigation. We also spoke to Office of International Affairs staff, who provided us with correspondence with foreign entities. Responsive records gathered in those searches are reflected in our January 7, 2025 release to you.

To identify additional responsive records, our Office of Information Technology ("OIT") ran a search for all SEC email correspondence that contains the search terms "proof-of-stake" AND "Ethereum" from January 1, 2018 to December 10, 2024 (the date of the search). We narrowed those search results to email correspondence from SEC staff to external parties and ran searches within those results to identify responsive records. Most of the records returned by the OIT search only mentioned the shift in passing (for example, an article by a third party that stated that the shift had happened or a filing in an unrelated litigation that happened to contain the word "Ethereum" and a statement that blockchains other than Ethereum have shifted to a proof-of-stake mechanism). Based on your statement at the hearing that Plaintiff seeks records about "what the agency has been thinking and saying to third parties" about Ethereum's shift to proof-of-stake (Tr. 15:7-8), we deemed those types of records non-responsive. As such, we included in our January 28, 2025 release records that discuss Ethereum's shift in more detail. If it would be helpful, I can provide a list of the types of documents that we deemed not responsive.

If Plaintiff seeks all SEC records that include the terms "Ethereum" and "proof-of-stake," then we must discuss how to approach that request, especially given that Judge Reyes said that if Plaintiff "want[s] anything that's been said about it, that's fine, but you're not going to get anything for quite a while." Tr. 15:11-14.

With respect to the search conducted for narrowed subpart 1, we spoke to Chair Gensler's staff, and, based on that conversation, OIT ran two searches: (1) all Chair Gensler email correspondence that contains "Ethereum" or "ETH" from January 1, 2018 to December 3, 2024 (the date of the search), and (2) all email correspondence of the Chair's Enforcement Counsel (Tejal Shah, Victor Suthammanont, and Jorge Tenreiro) that contains "Ethereum" or

"ETH" from January 1, 2018 to December 3, 2024 (the date of the search). We then ran searches within those results to identify responsive records, specifically "proof of stake" and, for the Chair's ENF counsel, a date limitation of when those staff each served in the Chair's Office.

With respect to your question about a litigation hold, a litigation hold has not been issued in this case. It is not our usual practice to issue litigation holds for FOIA litigation because we focus on gathering responsive documents, as evidenced by our efforts to gather responsive documents as soon as you identified workable categories of records. In addition, a litigation hold is not necessary for electronic communications because the Commission retains those indefinitely. If you believe a litigation hold would be appropriate for this case, please identify what you believe would be a reasonable scope for the hold.

With respect to your additional questions about our records releases, we can move forward with the confidential treatment process in connection with the withheld research paper. I'll keep you posted. I note that we are also withholding that record under Exemption 5 (as it reflects the topic of discussion between staff) and that the main topic of the paper is not Ethereum's shift to proof-of-stake. Also, the preliminary *Vaughn* Indices dated January 7 and 28, 2025 cover all of the records we have identified as responsive to the narrowed subparts, including the records withheld in full. The 6,940 pages withheld in full in connection with the narrowed subpart 2 January 28 release mostly consist of the draft reports described in the Index.

Judge Reyes encouraged us to work together, and I think it makes sense for us to continue discussing your concerns so we can move forward efficiently.

Best, Alex

From: Harper, Nick

Sent: Wednesday, January 29, 2025 3:33 PM

To: Verdi, Alexandra ; Bond, Jonathan C.

Subject: RE: History Associates Inc. v. SEC - Records release

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Thank you, Alex. We have received your most recent production. We are reviewing the documents and evaluating our next steps in advance of next week's status report. But we want to raise several preliminary, more pressing concerns and questions of clarification, some or all of which we plan to present to the Court in that upcoming report.

First, based on your description below, it appears that the SEC has improperly limited its production, by reading in limitations on the scope of our request that it did not contain, and therefore has not complied with the Court's direction to produce all documents responsive to the two prioritized subparts of our ETH request by the extended deadline of January 28. Our November 8 letter, which memorialized the Court's instructions during the November 8 hearing (to which the SEC had agreed), requested "(1) all documents and communications that SEC Chair Gary Gensler sent, received, or considered concerning Ethereum's shift to a proof-of-stake mechanism, and (2) all documents and communications sent by the SEC to third parties regarding Ethereum's shift to a proof-of-stake mechanism." Neither the Court's instruction nor our letter was limited in the way you describe below—i.e., as including only "records that more substantively discussed Ethereum's shift to a proof-of-stake mechanism," and excluding "records that mentioned that the shift had occurred or would occur but focused on other subjects." (Emphases added.) It is not clear to us what those limitations mean, and in all events neither the Court nor our letter stated any such limitations. In our view, the SEC thus was required, and should have, already produced the records you describe the agency as having withheld, and had no basis to adopt those limitations unilaterally and "deem[] as not responsive" records excluded by them. At a minimum, if the SEC perceived any uncertainty or ambiguity about whether our request was subject to those or any other unstated exclusions, the SEC should have raised those questions with us promptly following our November 8

letter—not waited until months later when making a production that excluded those records. We intend to raise this issue in our portion of the upcoming status report; the SEC of course can state its position in its portion of the report. To ensure that we present the issue accurately, please (1) confirm the SEC's position that it is not producing to us the documents you indicated it has withheld based on the narrowing interpretation and exclusions you identified below, and (2) let us know the volume of records the SEC has withheld.

Second, we have some questions about the scope of the searches the SEC conducted in response to our prioritized subparts. In some respects, there are fewer responsive documents than we expected. For example, the SEC appears to have identified only thirteen emails sent to former Chair Gensler relating to ETH's transition to proof-of-stake, and only one email sent by former Chair Gensler. To help us understand the scope of the SEC's search and ensure that it was comprehensive, can you please answer the following questions:

- Did the SEC institute a litigation hold at any point in response to our requests or our lawsuit? If so, when?
- What methods did the SEC use to search for responsive documents?
- If the SEC used keyword-searching, which keywords did it use?
- Did the SEC search all relevant databases, including collaboration platforms (e.g., Microsoft Teams)?

Third, with respect to the research paper referenced in the Vaughn index produced yesterday in response our prioritized subpart 1, we are seeking release of that paper. Has a third party made a request for confidential treatment with respect to that record? If not, we ask that the paper be promptly produced to us. If so, what is the status of the request for confidential treatment?

Fourth, can you please confirm that the entries in the Vaughn indices the SEC produced on January 7 and January 28 describe all documents that the agency withheld in full? And in particular, can you confirm that the 11 entries in the Vaughn index the SEC produced yesterday in response to our prioritized subpart 2 encompass the 6,940 pages that the SEC says it withheld in response to that request?

We would appreciate your responses to these questions by Friday. We anticipate raising the first issue, and potentially some or all of the others depending on the SEC's answers to our questions above, in our joint status report on Tuesday.

Thanks very much, Nick

Nick Harper

Partner

GIBSON DUNN

Gibson, Dunn & Crutcher LLP 1700 M Street, N.W., Washington, D.C. 20036-4504

From: Verdi, Alexandra

Sent: Tuesday, January 28, 2025 8:43 PM

To: Bond, Jonathan C. ; Harper, Nick

Subject: History Associates Inc. v. SEC - Records release

Hi Jonathan and Nick,

Please find attached today's release letter and additional preliminary *Vaughn* Indices. Due to the size of the records, I will send the PDF of the records separately via Accellion. Please let me know if you have issues accessing the records.

I would like to note that, during our review of potentially responsive records, we deemed as responsive the records that more substantively discussed Ethereum's shift to a proof-of-stake mechanism. Based on our understanding that Plaintiff seeks narrow groups of records in subparts 1 and 2, we deemed as not responsive records that mentioned that the shift had occurred or would occur but focused on other subjects.

Thanks, Alex

Alexandra Verdi [she/her] Office of the General Counsel





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