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SECURITIES AND EXCHANGE COMMISSION
WASHINGTON, D.C. 20549
Form 19b-4

File No. * SR 2022 - * 004

Amendment No. (req. for Amendments *)

Filing by National Securities Clearing Corporation

Pursuant to Rule 19b-4 under the Securities Exchange Act of 1934

Initial *

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Amendment *

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Withdrawal

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Section 19(b)(2) *

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Section 19(b)(3)(A) *

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Section 19(b)(3)(B) *

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Extension of Time Period for
Commission Action *

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Date Expires *

Rule

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19b-4(f)(1)

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19b-4(f)(4)

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19b-4(f)(2)

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19b-4(f)(5)

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19b-4(f)(3)

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19b-4(f)(6)

Notice of proposed change pursuant to the Payment, Clearing, and Settlement Act of 2010

Section 806(e)(1) *

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Section 806(e)(2) *

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Security-Based Swap Submission pursuant to the
Securities Exchange Act of 1934

Section 3C(b)(2) *

☐

Exhibit 2 Sent As Paper Document

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Exhibit 3 Sent As Paper Document

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Description

Provide a brief description of the action (limit 250 characters, required when Initial is checked *).

Require Applicants and Members to Maintain or Upgrade Their Network or Communications Technology

Contact Information

Provide the name, telephone number, and e-mail address of the person on the staff of the self-regulatory organization prepared to respond to questions and comments on the action.

First Name *

Last Name *

Title *

E-mail *

RuleFilingAdmin@dtcc.com

Telephone *

Fax

Signature

Pursuant to the requirements of the Securities Exchange of 1934, National Securities Clearing Corporation has duty caused this filing to be signed on its behalf by the undersigned thereunto duly authorized.

Date

05/11/2022

(Title *)

By

(Name *)

NOTE: Clicking the signature block at right will initiate digitally signing the form. A digital signature is as legally binding as a physical signature, and once signed, this form cannot be changed.

Date: 2022.05.11
14:00:47 -04'00'

Required fields are shown with yellow backgrounds and astericks.

SECURITIES AND EXCHANGE COMMISSION
WASHINGTON, D.C. 20549

For complete Form 19b-4 instructions please refer to the EDFS website.

Form 19b-4 Information *

Add Remove View

Narrative - NSCC Tech Upgrade Rule

The self-regulatory organization must provide all required information, presented in a clear and comprehensible manner, to enable the public to provide meaningful comment on the proposal and for the Commission to determine whether the proposal is consistent with the Act and applicable rules and regulations under the Act.

Exhibit 1 - Notice of Proposed Rule Change *

Add Remove View

Exhibit 1A - NSCC Tech Upgrade Rule

The Notice section of this Form 19b-4 must comply with the guidelines for publication in the Federal Register as well as any requirements for electronic filing as published by the Commission (if applicable). The Office of the Federal Register (OFR) offers guidance on Federal Register publication requirements in the Federal Register Document Drafting Handbook, October 1998 Revision. For example, all references to the federal securities laws must include the corresponding cite to the United States Code in a footnote. All references to SEC rules must include the corresponding cite to the Code of Federal Regulations in a footnote. All references to Securities Exchange Act Releases must include the release number, release date, Federal Register cite, Federal Register date, and corresponding file number (e.g., SR-[SRO]-xx-xx). A material failure to comply with these guidelines will result in the proposed rule change being deemed not properly filed. See also Rule 0-3 under the Act (17 CFR 240.0-3)

Exhibit 1A - Notice of Proposed Rule Change, Security-Based Swap Submission, or Advanced Notice by Clearing Agencies *

Add Remove View

The Notice section of this Form 19b-4 must comply with the guidelines for publication in the Federal Register as well as any requirements for electronic filing as published by the Commission (if applicable). The Office of the Federal Register (OFR) offers guidance on Federal Register publication requirements in the Federal Register Document Drafting Handbook, October 1998 Revision. For example, all references to the federal securities laws must include the corresponding cite to the United States Code in a footnote. All references to SEC rules must include the corresponding cite to the Code of Federal Regulations in a footnote. All references to Securities Exchange Act Releases must include the release number, release date, Federal Register cite, Federal Register date, and corresponding file number (e.g., SR-[SRO]-xx-xx). A material failure to comply with these guidelines will result in the proposed rule change being deemed not properly filed. See also Rule 0-3 under the Act (17 CFR 240.0-3)

Exhibit 2- Notices, Written Comments, Transcripts, Other Communications

Add Remove View

Copies of notices, written comments, transcripts, other communications. If such documents cannot be filed electronically in accordance with Instruction F, they shall be filed in accordance with Instruction G.

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Exhibit Sent As Paper Document

Exhibit 3 - Form, Report, or Questionnaire

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Copies of any form, report, or questionnaire that the self-regulatory organization proposes to use to help implement or operate the proposed rule change, or that is referred to by the proposed rule change.

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Exhibit Sent As Paper Document

Exhibit 4 - Marked Copies

Add Remove View

The full text shall be marked, in any convenient manner, to indicate additions to and deletions from the immediately preceding filing. The purpose of Exhibit 4 is to permit the staff to identify immediately the changes made from the text of the rule with which it has been working.

Exhibit 5 - Proposed Rule Text

Add Remove View

Exhibit 5 - NSCC Tech Upgrade Rule

The self-regulatory organization may choose to attach as Exhibit 5 proposed changes to rule text in place of providing it in Item I and which may otherwise be more easily readable if provided separately from Form 19b-4. Exhibit 5 shall be considered part of the proposed rule change

Partial Amendment

Add Remove View

If the self-regulatory organization is amending only part of the text of a lengthy proposed rule change, it may, with the Commission's permission, file only those portions of the text of the proposed rule change in which changes are being made if the filing (i.e. partial amendment) is clearly understandable on its face. Such partial amendment shall be clearly identified and marked to show deletions and additions.

1. Text of the Proposed Rule Change

(a) The proposed rule change of National Securities Clearing Corporation (“NSCC”) is annexed hereto as Exhibit 5 and consists of modifications to NSCC’s Rules & Procedures (“Rules”)¹ to revise certain provisions in the Rules relating to the requirement of applicants for NSCC membership, Members, Limited Members and Sponsored Members,² (collectively, “Participants”) of NSCC, to require that each Participant upgrade its network technology, and communications technology or protocols to meet standards that NSCC shall publish from time to time. Each of the proposed changes are described in greater detail below.

(b) Not applicable.

(c) Not applicable.

2. Procedures of the Self-Regulatory Organization

The proposed rule change was approved by the Risk Committee of the NSCC Board of Directors on December 14, 2021.

3. Self-Regulatory Organization’s Statement of the Purpose of, and Statutory Basis for, the Proposed Rule Change

(a) Purpose

NSCC is proposing to adopt a requirement that each Participant provide documentation demonstrating that the Participant’s network technology, and communication technology or protocols meet the standards that NSCC is currently requiring. The determination to require changes or upgrades is incorporated into NSCC’s procedures and includes an evaluation of the external threat landscape, threats to NSCC’s technology infrastructure and information assets, industry cybersecurity priorities, a review of the root causes of incidents, and an evaluation of the current state of the network infrastructure as expressed using third party assessments. For existing Members, Limited Members, and Sponsored Members, a new requirement is being proposed to require such Participants to upgrade their network technology, and communication technology or protocols within the timeframe published by NSCC. The proposed changes are described in greater detail below.

(i) *Background of the Requirement*

Currently, NSCC does not require, either as part of its application for membership or as an ongoing membership requirement, any level or version for network technology, such as a web browser or other technology, or any level or version of communications technology or protocols,

¹ Capitalized terms not defined herein are defined in the Rules, available at https://dtcc.com/~media/Files/Downloads/legal/rules/nscc_rules.pdf.

² Sponsored Members are a future program and will be the subject of a separate proposed rule change.

such as email encryption, secure messaging, or file transfers, that are being used to connect to or communicate with NSCC. In the current environment, NSCC maintains multiple network and communications methods and protocols, some either obsolete or many years older than the current standard in order to support Participants using these older technologies, which leaves communications between NSCC and its Participants vulnerable to interception or the introduction of unknown entries, and requires NSCC to expend additional resources, both in personnel and equipment, to maintain older communications channels. In addition, Participant's use of older technology delays the implementation by NSCC to upgrade its internal systems, which, by doing so, risks losing connectivity with a number of Participants. Given NSCC's critical role in the marketplace, this is a risk that needs to be addressed.

NSCC believes that it should require current network technology, and current communication technology and protocol standards for Participants connecting to its network. For example, The National Institute of Standards and Technology or NIST³ Special Publication 800-52 revision 2, specifies servers that support government-only applications shall be configured to use TLS⁴ 1.2 and should be configured to use TLS 1.3 as well. These servers should not be configured to use TLS 1.1 and shall not use TLS 1.0, SSL 3.0, or SSL 2.0.⁵ The Internet Engineer Task Force ("IETF")⁶ formally deprecated TLS versions 1.0 and 1.1 in March of 2021, stating, "These versions lack support for current and recommended cryptographic algorithms and mechanisms, and various government and industry profiles of applications using TLS now mandate avoiding these old TLS versions. ... Removing support for older versions from implementations reduces the attack surface, reduces opportunity for misconfiguration, and streamlines library and product maintenance."⁷ TLS 1.0 (published in 1999) does not support many modern, strong cipher (encryption) suites and TLS 1.1 (published in 2006) is a security improvement over TLS 1.0 but still does not support certain stronger cipher or encryption suites.⁸ Another communications technology, File Transfer Protocol ("FTP") is considered an insecure protocol, because it transfers user authentication data (username and password) and file

³ The National Institute of Standards and Technology ("NIST") is part of the U.S. Department of Commerce.

⁴ Transport Layer Security ("TLS"), the successor of the now-deprecated Secure Sockets Layer ("SSL"), is a cryptographic protocol designed to provide communications security over a computer network.

⁵ A government-only application is an application where the intended users are exclusively government employees or contractors working on behalf of the government. The full NIST publication is available at <https://nvlpubs.nist.gov/nistpubs/SpecialPublications/NIST.SP.800-52r2.pdf>

⁶ The Internet Engineering Task Force ("IETF") is an open standards organization, which develops and promotes voluntary Internet standards, in particular the technical standards that comprise the Internet protocol suite (TCP/IP).

⁷ <https://datatracker.ietf.org/doc/rfc8996/>

⁸ Id.

data as plain-text (not encrypted) over the network. This makes it highly vulnerable to sniffing attacks that allow an attacker to collect usernames and passwords from the network and inject malware into downloads via FTP. Following the guidance from NIST and other standards organizations, the proposed change would require the use of TLS 1.2, Secure FTP (“SFTP”), along with other modern technology and communication standards and protocols to communication with Participants.

(ii) Proposed Rule Changes

To implement the proposed changes NSCC would revise Rule 2A, Section 1C to add the requirement that applicants for membership confirm their network technology, and communications technology and protocols to be at the levels specified by NSCC, as part of their application. Rule 2B, Section 2A would be amended to add the requirement that each Member, Limited Member, or Sponsored Member maintain or upgrade their network technology, or communications technology or protocols on the systems that connect to NSCC to the version being required and within the time periods as provided through the Important Notice mechanism on NSCC’s website. Rule 7, Section 6 would be changed to provide that NSCC may require self-regulatory organizations, derivatives clearing organizations, and organizations who act either directly or through a subsidiary or affiliated organization and communicate with NSCC maintain or upgrade their network technology, or communications technology or protocols on the systems that connect to NSCC to the version being required and within the time periods in the same manner as Members, Limited Members or Sponsored Members. Addendum P, Section 3 of the Rules would be updated to provide that a Member, Limited Member or Sponsored Member who fails to perform the upgrade to their network technology, or communications technology or protocols and in the required timeframe would be subject to a monetary fine, as specified in the Rules.

(iii) Implementation Timeframe and Notification Requirements

In order to provide Members, Limited Members, or Sponsored Members adequate time to complete a required network technology, or communications technology or protocol upgrade, the time for a Member, Limited Member, or Sponsored Member to complete a required upgrade shall be set forth in the form of a notice posted on NSCC’s website pursuant to Section 7 of Rule 45, with the timeline determined for the due date of any upgrade. NSCC maintains a security policy and control standards that include a review of industry, vendor and U.S. Government best practice guidelines and timelines for security reviews which are used to determine whether an upgrade may be required. Due dates for an upgrade shall be published on the website based on NSCC’s reasonable estimates of the complexity or potential cost of an upgrade, an estimate of potential licensing fees, an estimate of the resources that may be needed to support an upgrade, or the urgency to remediate published vulnerabilities.

Applicants for membership shall be required to test connectivity to NSCC using the current network technology or communications technology or protocols with their application for membership upon the effective date of the proposal.

(b) Statutory Basis

NSCC believes that the proposal is consistent with the requirements of the Securities Exchange Act of 1934 (“Act”)⁹ and the rules and regulations thereunder applicable to a registered clearing agency. In particular, NSCC believes that the proposed rule change is consistent with Section 17A(b)(3)(F) of the Act,¹⁰ and Rules 17Ad-22(e)(17)(i) and (ii), (21), and (23),¹¹ promulgated under the Act as discussed below.

Section 17A(b)(3)(F)

Section 17A(b)(3)(F) of the Act¹² requires, in part, that the Rules be designed to promote the prompt and accurate clearance and settlement of securities transactions, to assure the safeguarding of securities and funds which are in the custody or control of NSCC or for which it is responsible and to remove impediments to and perfect the mechanism of a national system for the prompt and accurate clearance and settlement of securities transactions.

NSCC believes that the proposed rule change requiring Participants to meet NSCC’s standards for network technology, or communications technology or protocols is consistent with this provision of the Act. By conditioning an entity’s application to NSCC on its use of NSCC’s current network technology and communications technology or protocols, NSCC should be better enabled to reduce the cyber risks of electronically connecting to entities by reducing the risks of communication interception. Accordingly, the proposed requirement would allow NSCC to reduce both NSCC’s and its Participant’s exposure to interception or the introduction of malware while communicating between the entities. Intercepting communications or the introduction of malware or altered data could potentially compromise NSCC’s ability to promptly and accurately settle securities transactions and safeguard securities funds. The proposal is designed to mitigate those risks and thereby promote the prompt and accurate clearance and settlement of securities transactions, to assure the safeguarding of securities and funds which are in the custody or control of NSCC or for which it is responsible and to remove impediments to and perfect the mechanism of a national system for the prompt and accurate clearance and settlement of securities transactions. Providing a clear and consistent standard at the current level of network and communication security and technology would allow Participants to better understand their obligations with respect to such technology and communication requirements and providing a uniform obligation for Participants with respect to such requirements. As such, NSCC believes the proposed rule change is consistent with Section 17A(b)(3)(F) of the Act.¹³

⁹ 15 U.S.C. 78a et seq.

¹⁰ 15 U.S.C. 78q-1(b)(3)(F).

¹¹ 17 CFR 240.17Ad-22(e)(17), (e)(21), (e)(23).

¹² 15 U.S.C. 78q-1(b)(3)(F).

¹³ Id.

17Ad 22(e)(21)(iv)

In addition, the proposed rule change is designed to be consistent with Rule 17Ad 22(e)(21)(iv) promulgated under the Act. Rule 17Ad-22(e)(21)(iv) requires NSCC to, *inter alia*, establish, implement, maintain and enforce written policies and procedures reasonably designed to be efficient and effective in meeting the requirements of its Participants and the markets it serves with regard to the use of network technology and communication technologies or protocols. The proposed rule change would enhance NSCC's security through the use of current network technology, or communication technology or protocols, and would allow NSCC to reduce its and its Participants' exposure to interception or the introduction of malware while communicating between the entities. This would eliminate the current use of multiple generations of network technology and communications technology and protocols, including ones that NIST no longer permits for use on government systems due to their insecurity. The proposed rule would require, after appropriate notice to Participants, future network technology and communication or protocol upgrades as technology and threats evolve to maintain secure connectivity.

Therefore, by reviewing and updating the efficiency and effectiveness of its Participants' use of network technology and communication technology or protocols and procedures, NSCC believes the proposed change is consistent with the requirements of Rule 17Ad-22(e)(21)(iv), promulgated under the Act.

Rule 17Ad-22(e)(17)(i)

NSCC believes the proposed change is designed to reduce the following risks: (1) the risk of the communications between NSCC and its Participants being intercepted or introducing malware or other unknown harmful elements into NSCC's network that could cause harm to NSCC; (2) the risk that a cyberattack or other unknown harmful elements could be introduced from a Participant that could cause harm to other Participants.¹⁴

In addition, the proposed rule change is designed to be consistent with Rule 17Ad-22(e)(17)(i) promulgated under the Act,¹⁵ which requires NSCC to establish, implement, maintain and enforce written policies and procedures reasonably designed to manage the covered clearing agency's operational risks by identifying plausible sources of operational risk, both internal and external, and mitigating their impact through the use of appropriate systems, policies, procedures, and controls.

The use of old, obsolete, or insecure network technology or communications technologies or protocols, including communications between NSCC and its Participants that are unencrypted, allowing for potential interception or making the communication highly vulnerable to sniffing attacks that allow an attacker to collect usernames and passwords from the network and inject malware, are examples of plausible sources of operational risks that NSCC seeks to reduce. By requiring all Participants, after appropriate notice, to upgrade their network technology or

¹⁴ 17 CFR 240.17Ad-22(e)(17).

¹⁵ 17 CFR 240.17Ad-22(e)(17)(i).

communications technology or protocols to current standards, NSCC seeks to enhance the security of its systems and the communications between it and its Participants.

Because the proposed change would help identify and manage such operational risks, NSCC believes that it is consistent with the requirements of Rule 17Ad-22(e)(17)(i), promulgated under the Act.¹⁶

Rule 17Ad 22(e)(17)(ii)

In addition, the proposed rule change is designed to be consistent with Rule 17Ad-22(e)(17)(ii) promulgated under the Act, which requires NSCC to establish, implement, maintain and enforce written policies and procedures reasonably designed ensure that systems have a high degree of security, resiliency, operational reliability, and adequate, scalable capacity.¹⁷

The use of unencrypted network technology and communications technology or protocols can allow a third party to intercept messages, insert malware, or change the message content, often without the knowledge of either the sender or recipient of the messages or files. Requiring Participants to upgrade their network technology and communications technology or protocols to more modern and secure methods, may eliminate many of the earlier threats.

Therefore, by requiring Participants to upgrade their network technology or communications technology or protocols, NSCC believes that the proposed change is consistent with the requirements of Rule 17Ad-22(e)(17)(ii), promulgated under the Act.¹⁸

Rule 17Ad-22(e)(22)

In addition, the proposed rule change is designed to be consistent with Rule 17Ad-22(e)(22) promulgated under the Act, which requires NSCC to use, or at a minimum accommodate, relevant internationally accepted communication procedures and standards in order to facilitate efficient payment, clearing, and settlement.¹⁹

The requirement to use industry approved communications technology or protocols, including those that NIST specifies as acceptable for use in government systems is a cornerstone of the changes being proposed by NSCC. The use of older, obsolete, or insecure network technology or communications technology or protocols, including those specified to not be used by the IETF²⁰ represents a risk to efficient payment, clearing and settlement.

¹⁶ Id.

¹⁷ 17 CFR 240.17Ad-22(e)(17)(ii).

¹⁸ Id.

¹⁹ 17 CFR 240.17Ad-22(e)(22).

²⁰ <https://datatracker.ietf.org/doc/rfc8996/>

Therefore, by requiring Participants to upgrade their network technology or communications technology or protocols, NSCC believes that the proposed change is consistent with the requirements of Rule 17Ad-22(e)(22), promulgated under the Act.²¹

Rule 17Ad-22(e)(23)

The proposed rule change is also designed to be consistent with Rule 17Ad 22(e)(23)(i), (ii) and (iv) promulgated under the Act, which requires NSCC to publicly disclose all relevant rules and material procedures, provide sufficient information to enable Participants to identify and evaluate the risks, fees, potential monetary fines, and other material costs they incur by participating in the covered clearing agency, and to provide a comprehensive public disclosure that describes NSCC's material rules, policies, and procedures regarding NSCC's legal, governance, risk management and operating framework.²²

Network technology, or communications technology or protocols that are being updated would be posted on the NSCC website and Participants may subscribe to receive updates to such information as it occurs. This allows current or prospective Participants the ability to understand the risks and potential costs they may incur as a Participant, including the potential costs to upgrade its network technology or communications technology or protocols to the standards published by NSCC.

Therefore, by providing Participants with public and readily available access to the required network technology, or communications technology or protocols, NSCC believes that the proposed change is consistent with the requirements of Rule 17Ad-22(e)(23)(i)(ii) and (iv), promulgated under the Act.²³

4. Self-Regulatory Organization's Statement on Burden on Competition

NSCC does not believe the proposed change to require Participants to have, or to upgrade their network technology or communications technology or protocols would have any impact, or impose any burden on competition not necessary or appropriate in furtherance of the purposes of the Act.²⁴ Although the addition of the requirement to upgrade to current network technology or communications technology or protocols would be adding obligations on Participants with respect to how they communicate with NSCC, such obligations would be reasonable because the requirements to protect client and customer data would allow NSCC to reduce both its and its Participants' exposure to interception or the introduction of malware while communicating between the entities.

²¹ 17 CFR 240.17Ad-22(e)(22).

²² 17 CFR 240.17Ad-23(e)(i), (ii), and (iv).

²³ Id.

²⁴ 15 U.S.C. 78q-1(b)(3)(I).

NSCC believes that the proposed change described herein is necessary in furtherance of the purposes of Section 17A(b)(3)(F) of the Act,²⁵ and Rules 17Ad-22(e)(17), (e)(21), (e)(22), and (e)(23).²⁶ The proposed change to require Participants to upgrade their network technology, and communications technology or protocols, will (i) allow NSCC to protect it and its Participants and would promote the prompt and accurate clearance and settlement of securities consistent with the requirements of Section 17A(b)(3)(F) of the Act,²⁷ (ii) identify potential operational risks from the use of obsolete and insecure network technology and communications technology or protocols consistent with Rule 17Ad 22(e)(17)(i),²⁸ (iii) through the requirement of the use of current network technology and communications technology or protocols, ensure that systems have a high degree of security, resiliency, operational reliability, and adequate, scalable capacity, consistent with Rule 17Ad 22(e)(17)(ii),²⁹ and (iv) through the use of requiring relevant internationally accepted communication procedures and standards, facilitate efficient payment, clearing, and settlement, consistent with Rules 17Ad-22(e)(22).³⁰

NSCC believes that the proposed change described herein is appropriate in furtherance of the Act because the NIST standards and frameworks provides a common language and systematic methodology for managing cybersecurity risk. The IETF, initially supported by the U.S. Government,³¹ develops the internet and other technical standards used in communications between devices, and together, these are two of the leading providers of standards used by organizations to protect data and interoperability. NSCC maintains policies to review current risks and standards, incorporating input from industry, vendors, and the U.S. Government to determine best practice guidelines and timelines for security reviews.

Therefore, NSCC does not believe that the proposed change would impose any burden on competition that is not necessary or appropriate in furtherance of the Act.³²

5. Self-Regulatory Organization's Statement on Comments on the Proposed Rule Change Received from Members, Participants, or Others

²⁵ 15 U.S.C. 78q-1(b)(3)(F).

²⁶ 17 CFR 240.17Ad-22(e)(1), (e)(17), (e)(21), (e)(22) and (e)(23).

²⁷ Id.

²⁸ 17Ad 22(e)(17)(i).

²⁹ 17Ad 22(e)(17)(ii).

³⁰ Id.

³¹ <https://www.internetsociety.org/internet/history-of-the-internet/ietf-internet-society/>

³² 15 U.S.C. 78q-1(b)(3)(I).

NSCC has not received or solicited any written comments relating to this proposal. If any written comments are received, they will be publicly filed as an Exhibit 2 to this filing, as required by Form 19b-4 and the General Instructions thereto.

Persons submitting comments are cautioned that, according to Section IV (Solicitation of Comments) of the Exhibit 1A in the General Instructions to Form 19b-4, the SEC does not edit personal identifying information from comment submissions. Commenters should submit only information that they wish to make available publicly, including their name, email address, and any other identifying information.

All prospective commenters should follow the SEC's instructions on how to submit comments, available at <https://www.sec.gov/regulatory-actions/how-to-submit-comments>. General questions regarding the rule filing process or logistical questions regarding this filing should be directed to the Main Office of the SEC's Division of Trading and Markets at tradingandmarkets@sec.gov or 202-551-5777.

NSCC reserves the right not to respond to any comments received.

6. Extension of Time Period for Commission Action

NSCC does not consent to an extension of the time period specified in Section 19(b)(2) of the Act³³ for Securities and Exchange Commission ("Commission") action.

7. Basis for Summary Effectiveness Pursuant to Section 19(b)(3) or for Accelerated Effectiveness Pursuant to Section 19(b)(2)

- (a) Not applicable.
- (b) Not applicable.
- (c) Not applicable.
- (d) Not applicable.

8. Proposed Rule Change Based on Rules of Another Self-Regulatory Organization or of the Commission

While the proposal is not based on the rules of another self-regulatory organization or of the Commission, NSCC's affiliates, DTC and FICC, have each filed similar proposals concurrently with this filing to adopt comparable rule changes.

9. Security-Based Swap Submissions Filed Pursuant to Section 3C of the Act

Not applicable.

³³ 15 U.S.C. 78s(b)(2).

10. Advance Notice Filed Pursuant to Section 806(e) of the Payment, Clearing, and Settlement Supervision Act of 2010

Not applicable.

11. Exhibits

Exhibit 1 – Not applicable.

Exhibit 1A – Notice of proposed rule change for publication in the Federal Register.

Exhibit 2 – Not applicable.

Exhibit 3 – Not applicable.

Exhibit 4 – Not applicable.

Exhibit 5 – Proposed changes to the Rules.

EXHIBIT 1A

SECURITIES AND EXCHANGE COMMISSION
(Release No. 34-[____]; File No. SR-NSCC-2022-004)

[DATE]

Self-Regulatory Organizations; National Securities Clearing Corporation; Notice of a Proposed Rule Change to Require Applicants and Members to Maintain or Upgrade Their Network or Communications Technology

Pursuant to Section 19(b)(1) of the Securities Exchange Act of 1934 (“Act”)¹ and Rule 19b-4 thereunder,² notice is hereby given that on May __, 2022, National Securities Clearing Corporation (“NSCC”) filed with the Securities and Exchange Commission (“Commission”) the proposed rule change as described in Items I, II and III below, which Items have been prepared by the clearing agency. The Commission is publishing this notice to solicit comments on the proposed rule change from interested persons.

I. Clearing Agency’s Statement of the Terms of Substance of the Proposed Rule Change

The proposed rule change of NSCC consists of modifications to NSCC’s Rules & Procedures (“Rules”)³ to revise certain provisions in the Rules relating to the requirement of applicants for NSCC membership, Members, Limited Members and Sponsored Members,⁴ (collectively, “Participants”) of NSCC, to require that each Participant

¹ 15 U.S.C. 78s(b)(1).

² 17 CFR 240.19b-4.

³ Capitalized terms not defined herein are defined in the Rules, available at https://dtcc.com/~media/Files/Downloads/legal/rules/nscc_rules.pdf.

⁴ Sponsored Members are a future program and will be the subject of a separate proposed rule change.

upgrade its network technology, and communications technology or protocols to meet standards that NSCC shall publish from time to time, as described in greater detail below.

II. Clearing Agency's Statement of the Purpose of, and Statutory Basis for, the Proposed Rule Change

In its filing with the Commission, the clearing agency included statements concerning the purpose of and basis for the proposed rule change and discussed any comments it received on the proposed rule change. The text of these statements may be examined at the places specified in Item IV below. The clearing agency has prepared summaries, set forth in sections A, B, and C below, of the most significant aspects of such statements.

(A) Clearing Agency's Statement of the Purpose of, and Statutory Basis for, the Proposed Rule Change

1. Purpose

NSCC is proposing to adopt a requirement that each Participant provide documentation demonstrating that the Participant's network technology, and communication technology or protocols meet the standards that NSCC is currently requiring. The determination to require changes or upgrades is incorporated into NSCC's procedures and includes an evaluation of the external threat landscape, threats to NSCC's technology infrastructure and information assets, industry cybersecurity priorities, a review of the root causes of incidents, and an evaluation of the current state of the network infrastructure as expressed using third party assessments. For existing Members, Limited Members, and Sponsored Members, a new requirement is being proposed to require such Participants to upgrade their network technology, and communication

technology or protocols within the timeframe published by NSCC. The proposed changes are described in greater detail below.

(i) Background of the Requirement

Currently, NSCC does not require, either as part of its application for membership or as an ongoing membership requirement, any level or version for network technology, such as a web browser or other technology, or any level or version of communications technology or protocols, such as email encryption, secure messaging, or file transfers, that are being used to connect to or communicate with NSCC. In the current environment, NSCC maintains multiple network and communications methods and protocols, some either obsolete or many years older than the current standard in order to support Participants using these older technologies, which leaves communications between NSCC and its Participants vulnerable to interception or the introduction of unknown entries, and requires NSCC to expend additional resources, both in personnel and equipment, to maintain older communications channels. In addition, Participant's use of older technology delays the implementation by NSCC to upgrade its internal systems, which, by doing so, risks losing connectivity with a number of Participants. Given NSCC's critical role in the marketplace, this is a risk that needs to be addressed.

NSCC believes that it should require current network technology, and current communication technology and protocol standards for Participants connecting to its network. For example, The National Institute of Standards and Technology or NIST⁵ Special Publication 800-52 revision 2, specifies servers that support government-only

⁵ The National Institute of Standards and Technology ("NIST") is part of the U.S. Department of Commerce.

applications shall be configured to use TLS⁶ 1.2 and should be configured to use TLS 1.3 as well. These servers should not be configured to use TLS 1.1 and shall not use TLS 1.0, SSL 3.0, or SSL 2.0.⁷ The Internet Engineer Task Force (“IETF”)⁸ formally deprecated TLS versions 1.0 and 1.1 in March of 2021, stating, “These versions lack support for current and recommended cryptographic algorithms and mechanisms, and various government and industry profiles of applications using TLS now mandate avoiding these old TLS versions. ... Removing support for older versions from implementations reduces the attack surface, reduces opportunity for misconfiguration, and streamlines library and product maintenance.”⁹ TLS 1.0 (published in 1999) does not support many modern, strong cipher (encryption) suites and TLS 1.1 (published in 2006) is a security improvement over TLS 1.0 but still does not support certain stronger cipher or encryption suites.¹⁰ Another communications technology, File Transfer Protocol (“FTP”) is considered an insecure protocol, because it transfers user authentication data (username and password) and file data as plain-text (not encrypted) over the network.

⁶ Transport Layer Security (“TLS”), the successor of the now-deprecated Secure Sockets Layer (“SSL”), is a cryptographic protocol designed to provide communications security over a computer network.

⁷ A government-only application is an application where the intended users are exclusively government employees or contractors working on behalf of the government. The full NIST publication is available at <https://nvlpubs.nist.gov/nistpubs/SpecialPublications/NIST.SP.800-52r2.pdf>

⁸ The Internet Engineering Task Force (“IETF”) is an open standards organization, which develops and promotes voluntary Internet standards, in particular the technical standards that comprise the Internet protocol suite (TCP/IP).

⁹ <https://datatracker.ietf.org/doc/rfc8996/>

¹⁰ Id.

This makes it highly vulnerable to sniffing attacks that allow an attacker to collect usernames and passwords from the network and inject malware into downloads via FTP. Following the guidance from NIST and other standards organizations, the proposed change would require the use of TLS 1.2, Secure FTP (“SFTP”), along with other modern technology and communication standards and protocols to communication with Participants.

(ii) Proposed Rule Changes

To implement the proposed changes, NSCC would revise Rule 2A, Section 1C to add the requirement that applicants for membership must confirm their network technology, and communications technology and protocols to be at the levels specified by NSCC, as part of their application. Rule 2B, Section 2A would be amended to add the requirement that each Member, Limited Member, or Sponsored Member maintain or upgrade their network technology, or communications technology or protocols on the systems that connect to NSCC to the version being required and within the time periods as provided through the Important Notice mechanism on NSCC’s website. Rule 7, Section 6 would be changed to provide that NSCC may require self-regulatory organizations, derivatives clearing organizations, and organizations who act either directly or through a subsidiary or affiliated organization and communicate with NSCC maintain or upgrade their network technology, or communications technology or protocols on the systems that connect to NSCC to the version being required and within the time periods in the same manner as Members, Limited Members or Sponsored Members. Addendum P, Section 3 of the Rules would be updated to provide that a Member, Limited Member or Sponsored Member who fails to perform the upgrade to

their network technology, or communications technology or protocols and in the required timeframe would be subject to a monetary fine as specified in the Rules.

(iii) ***Implementation Timeframe and Notification Requirements***

In order to provide Members, Limited Members, or Sponsored Members adequate time to complete a required network technology, or communications technology or protocol upgrade, the time for a Member, Limited Member, or Sponsored Member to complete a required upgrade shall be set forth in the form of a notice posted on NSCC's website pursuant to Section 7 of Rule 45, with the timeline determined for the due date of any upgrade. NSCC maintains a security policy and control standards that include a review of industry, vendor and U.S. Government best practice guidelines and timelines for security reviews which are used to determine whether an upgrade may be required. Due dates for an upgrade shall be published on the website based on NSCC's reasonable estimates of the complexity or potential cost of an upgrade, an estimate of potential licensing fees, an estimate of the resources that may be needed to support an upgrade, or the urgency to remediate published vulnerabilities.

Applicants for membership shall be required to test connectivity to NSCC using the current network technology or communications technology or protocols with their application for membership upon the effective date of the proposal.

2. Statutory Basis

NSCC believes that the proposal is consistent with the requirements of the Act¹¹ and the rules and regulations thereunder applicable to a registered clearing agency. In particular, NSCC believes that the proposed rule changes is consistent with Section

¹¹ 15 U.S.C. 78a et seq.

17A(b)(3)(F) of the Act,¹² and Rules 17Ad-22(e)(17)(i) and (ii), (21), and (23),¹³ promulgated under the Act as discussed below.

Section 17A(b)(3)(F)

Section 17A(b)(3)(F) of the Act¹⁴ requires, in part, that the Rules be designed to promote the prompt and accurate clearance and settlement of securities transactions, to assure the safeguarding of securities and funds which are in the custody or control of NSCC or for which it is responsible and to remove impediments to and perfect the mechanism of a national system for the prompt and accurate clearance and settlement of securities transactions.

NSCC believes that the proposed rule change requiring Participants to meet NSCC's standards for network technology, or communications technology or protocols is consistent with this provision of the Act. By conditioning an entity's application to NSCC on its use of NSCC's current network technology and communications technology or protocols, NSCC should be better enabled to reduce the cyber risks of electronically connecting to entities by reducing the risks of communication interception. Accordingly, the proposed requirement would allow NSCC to reduce both NSCC's and its Participant's exposure to interception or the introduction of malware while communicating between the entities. Intercepting communications or the introduction of malware or altered data could potentially compromise NSCC's ability to promptly and accurately settle securities transactions and safeguard securities funds. The proposal is

¹² 15 U.S.C. 78q-1(b)(3)(F).

¹³ 17 CFR 240.17Ad-22(e)(17), (e)(21), (e)(23).

¹⁴ 15 U.S.C. 78q-1(b)(3)(F).

designed to mitigate those risks and thereby promote the prompt and accurate clearance and settlement of securities transactions, to assure the safeguarding of securities and funds which are in the custody or control of NSCC or for which it is responsible and to remove impediments to and perfect the mechanism of a national system for the prompt and accurate clearance and settlement of securities transactions. Providing a clear and consistent standard at the current level of network and communication security and technology would allow Participants to better understand their obligations with respect to such technology and communication requirements and providing a uniform obligation for Participants with respect to such requirements. As such, NSCC believes the proposed rule change is consistent with Section 17A(b)(3)(F) of the Act.¹⁵

17Ad 22(e)(21)(iv)

In addition, the proposed rule change is designed to be consistent with Rule 17Ad 22(e)(21)(iv) promulgated under the Act. Rule 17Ad-22(e)(21)(iv) requires NSCC to, inter alia, establish, implement, maintain and enforce written policies and procedures reasonably designed to be efficient and effective in meeting the requirements of its Participants and the markets it serves with regard to the use of network technology and communication technologies or protocols. The proposed rule change would enhance NSCC's security through the use of current network technology, or communication technology or protocols, and would allow NSCC to reduce its and its Participants' exposure to interception or the introduction of malware while communicating between the entities. This would eliminate the current use of multiple generations of network technology and communications technology and protocols, including ones that NIST no

¹⁵ Id.

longer permits for use on government systems due to their insecurity. The proposed rule would require, after appropriate notice to Participants, future network technology and communication or protocol upgrades as technology and threats evolve to maintain secure connectivity.

Therefore, by reviewing and updating the efficiency and effectiveness of its Participants' use of network technology and communication technology or protocols and procedures, NSCC believes the proposed change is consistent with the requirements of Rule 17Ad-22(e)(21)(iv), promulgated under the Act.

Rule 17Ad-22(e)(17)(i)

NSCC believes the proposed change is designed to reduce the following risks: (1) the risk of the communications between NSCC and its Participants being intercepted or introducing malware or other unknown harmful elements into NSCC's network that could cause harm to NSCC; (2) the risk that a cyberattack or other unknown harmful elements could be introduced from a Participant that could cause harm to other Participants.¹⁶

In addition, the proposed rule change is designed to be consistent with Rule 17Ad-22(e)(17)(i) promulgated under the Act,¹⁷ which requires NSCC to establish, implement, maintain and enforce written policies and procedures reasonably designed to manage the covered clearing agency's operational risks by identifying plausible sources of operational risk, both internal and external, and mitigating their impact through the use of appropriate systems, policies, procedures, and controls.

¹⁶ 17 CFR 240.17Ad-22(e)(17).

¹⁷ 17 CFR 240.17Ad-22(e)(17)(i).

The use of old, obsolete, or insecure network technology or communications technologies or protocols, including communications between NSCC and its Participants that are unencrypted, allowing for potential interception or making the communication highly vulnerable to sniffing attacks that allow an attacker to collect usernames and passwords from the network and inject malware, are examples of plausible sources of operational risks that NSCC seeks to reduce. By requiring all Participants, after appropriate notice, to upgrade their network technology or communications technology or protocols to current standards, NSCC seeks to enhance the security of its systems and the communications between it and its Participants.

Because the proposed changes would help identify and manage such operational risks, NSCC believes that it is consistent with the requirements of Rule 17Ad-22(e)(17)(i), promulgated under the Act.¹⁸

Rule 17Ad 22(e)(17)(ii)

In addition, the proposed rule change is designed to be consistent with Rule 17Ad-22(e)(17)(ii) promulgated under the Act, which requires NSCC to establish, implement, maintain and enforce written policies and procedures reasonably designed ensure that systems have a high degree of security, resiliency, operational reliability, and adequate, scalable capacity.¹⁹

The use of unencrypted network technology and communications technology or protocols can allow a third party to intercept messages, insert malware, or change the message content, often without the knowledge of either the sender or recipient of the

¹⁸ Id.

¹⁹ 17 CFR 240.17Ad-22(e)(17)(ii).

messages or files. Requiring Participants to upgrade their network technology and communications technology or protocols to more modern and secure methods, may eliminate many of the earlier threats.

Therefore, by requiring Participants to upgrade their network technology or communications technology or protocols, NSCC believes that the proposed change is consistent with the requirements of Rule 17Ad-22(e)(17)(ii), promulgated under the Act.²⁰

Rule 17Ad-22(e)(22)

In addition, the proposed rule change is designed to be consistent with Rule 17Ad-22(e)(22) promulgated under the Act, which requires NSCC to use, or at a minimum accommodate, relevant internationally accepted communication procedures and standards in order to facilitate efficient payment, clearing, and settlement.²¹

The requirement to use industry approved communications technology or protocols, including those that NIST specifies as acceptable for use in government systems is a cornerstone of the changes being proposed by NSCC. The use of older, obsolete, or insecure network technology or communications technology or protocols,

²⁰ Id.

²¹ 17 CFR 240.17Ad-22(e)(22).

including those specified to not be used by the IETF²² represents a risk to efficient payment, clearing and settlement.

Therefore, by requiring Participants to upgrade their network technology or communications technology or protocols, NSCC believes that the proposed change is consistent with the requirements of Rule 17Ad-22(e)(22), promulgated under the Act.²³

Rule 17Ad-22(e)(23)

The proposed rule change is also designed to be consistent with Rule 17Ad 22(e)(23)(i), (ii) and (iv) promulgated under the Act, which requires NSCC to publicly disclose all relevant rules and material procedures, provide sufficient information to enable Participants to identify and evaluate the risks, fees, potential monetary fines, and other material costs they incur by participating in the covered clearing agency, and to provide a comprehensive public disclosure that describes NSCC's material rules, policies, and procedures regarding NSCC's legal, governance, risk management and operating framework.²⁴

Network technology, or communications technology or protocols that are being updated would be posted on the NSCC website and Participants may subscribe to receive updates to such information as it occurs. This allows current or prospective Participants the ability to understand the risks and potential costs they may incur as a Participant, including the potential costs to upgrade its network technology or communications technology or protocols to the standards published by NSCC.

²² <https://datatracker.ietf.org/doc/rfc8996/>

²³ 17 CFR 240.17Ad-22(e)(22).

²⁴ 17 CFR 240.17Ad-23(e)(i), (ii), and (iv).

Therefore, by providing Participants with public and readily available access to the required network technology, or communications technology or protocols, NSCC believes that the proposed change is consistent with the requirements of Rule 17Ad-22(e)(23)(i)(ii) and (iv), promulgated under the Act.²⁵

(B) Clearing Agency's Statement on Burden on Competition

NSCC does not believe the proposed change to require Participants to have, or to upgrade their network technology or communications technology or protocols would have any impact, or impose any burden on competition not necessary or appropriate in furtherance of the purposes of the Act.²⁶ Although the addition of the requirement to upgrade to current network technology or communications technology or protocols would be adding obligations on Participants with respect to how they communicate with NSCC, such obligations would be reasonable because the requirements to protect client and customer data would allow NSCC to reduce both its and its Participant's exposure to interception or the introduction of malware while communicating between the entities.

NSCC believes that the proposed change described herein is necessary in furtherance of the purposes of Section 17A(b)(3)(F) of the Act,²⁷ and Rules 17Ad-22(e)(17), (e)(21), (e)(22), and (e)(23).²⁸ The proposed changes to require Participants to upgrade their network technology, and communications technology or protocols, will (i)

²⁵ Id.

²⁶ 15 U.S.C. 78q-1(b)(3)(I).

²⁷ 15 U.S.C. 78q-1(b)(3)(F).

²⁸ 17 CFR 240.17Ad-22(e)(1), (e)(17), (e)(21), (e)(22) and (e)(23).

allow NSCC to protect it and its Participants and would promote the prompt and accurate clearance and settlement of securities consistent with the requirements of Section 17A(b)(3)(F) of the Act,²⁹ (ii) identify potential operational risks from the use of obsolete and insecure network technology and communications technology or protocols consistent with Rule 17Ad 22(e)(17)(i),³⁰ (iii) through the requirement of the use of current network technology and communications technology or protocols, ensure that systems have a high degree of security, resiliency, operational reliability, and adequate, scalable capacity, consistent with Rule 17Ad 22(e)(17)(ii),³¹ and (iv) through the use of requiring relevant internationally accepted communication procedures and standards, facilitate efficient payment, clearing, and settlement, consistent with Rules 17Ad-22(e)(22).³²

NSCC believes that the proposed change described herein is appropriate in furtherance of the Act because the NIST standards and frameworks provides a common language and systematic methodology for managing cybersecurity risk. The IETF, initially supported by the U.S. Government,³³ develops the internet and other technical standards used in communications between devices, and together, these are two of the leading providers of standards used by organizations to protect data and interoperability. NSCC maintains policies to review current risks and standards, incorporating input from

²⁹ Id.

³⁰ 17Ad 22(e)(17)(i).

³¹ 17Ad 22(e)(17)(ii).

³² Id.

³³ <https://www.internetsociety.org/internet/history-of-the-internet/ietf-internet-society/>

industry, vendors, and the U.S. Government to determine best practice guidelines and timelines for security reviews.

Therefore, NSCC does not believe that the proposed changes would impose any burden on competition that is not necessary or appropriate in furtherance of the Act.³⁴

(C) Clearing Agency's Statement on Comments on the Proposed Rule Change Received from Members, Participants, or Others

NSCC has not received or solicited any written comments relating to this proposal. If any written comments are received, they will be publicly filed as an Exhibit 2 to this filing, as required by Form 19b-4 and the General Instructions thereto.

Persons submitting comments are cautioned that, according to Section IV (Solicitation of Comments) of the Exhibit 1A in the General Instructions to Form 19b-4, the SEC does not edit personal identifying information from comment submissions. Commenters should submit only information that they wish to make available publicly, including their name, email address, and any other identifying information.

All prospective commenters should follow the SEC's instructions on how to submit comments, available at <https://www.sec.gov/regulatory-actions/how-to-submit-comments>. General questions regarding the rule filing process or logistical questions regarding this filing should be directed to the Main Office of the SEC's Division of Trading and Markets at tradingandmarkets@sec.gov or 202-551-5777.

NSCC reserves the right not to respond to any comments received.

³⁴ 15 U.S.C. 78q-1(b)(3)(I).

III. Date of Effectiveness of the Proposed Rule Change, and Timing for Commission Action

Within 45 days of the date of publication of this notice in the Federal Register or within such longer period up to 90 days (i) as the Commission may designate if it finds such longer period to be appropriate and publishes its reasons for so finding or (ii) as to which the self-regulatory organization consents, the Commission will:

- (A) by order approve or disapprove such proposed rule change, or
- (B) institute proceedings to determine whether the proposed rule change should be disapproved.

IV. Solicitation of Comments

Interested persons are invited to submit written data, views and arguments concerning the foregoing, including whether the proposed rule change is consistent with the Act. Comments may be submitted by any of the following methods:

Electronic Comments:

- Use the Commission's Internet comment form (<http://www.sec.gov/rules/sro.shtml>); or
- Send an e-mail to rule-comments@sec.gov. Please include File Number SR-NSCC-2022-004 on the subject line.

Paper Comments:

- Send paper comments in triplicate to Secretary, Securities and Exchange Commission, 100 F Street, NE, Washington, DC 20549.

All submissions should refer to File Number SR-NSCC-2022-004. This file number should be included on the subject line if e-mail is used. To help the Commission process and review your comments more efficiently, please use only one method. The

Commission will post all comments on the Commission's Internet website (<http://www.sec.gov/rules/sro.shtml>). Copies of the submission, all subsequent amendments, all written statements with respect to the proposed rule change that are filed with the Commission, and all written communications relating to the proposed rule change between the Commission and any person, other than those that may be withheld from the public in accordance with the provisions of 5 U.S.C. 552, will be available for website viewing and printing in the Commission's Public Reference Room, 100 F Street, NE, Washington, DC 20549 on official business days between the hours of 10:00 a.m. and 3:00 p.m. Copies of the filing also will be available for inspection and copying at the principal office of NSCC and on DTCC's website (<http://dtcc.com/legal/sec-rule-filings.aspx>). All comments received will be posted without change. Persons submitting comments are cautioned that we do not redact or edit personal identifying information from comment submissions. You should submit only information that you wish to make available publicly. All submissions should refer to File Number SR-NSCC-2022-004 and should be submitted on or before [insert date 21 days from publication in the Federal Register].

For the Commission, by the Division of Trading and Markets, pursuant to delegated authority.³⁵

Secretary

³⁵ 17 CFR 200.30-3(a)(12).



NATIONAL
SECURITIES
CLEARING
CORPORATION

RULES & PROCEDURES

TEXT OF PROPOSED RULE CHANGE

Bolded, underlined text indicates added language.

~~Bolded, strikethrough text~~ indicates deleted language.

RULE 2A. INITIAL MEMBERSHIP REQUIREMENTS

SEC. 1. ELIGIBILITY FOR MEMBERSHIP

In furtherance of the Corporation's rights and authority to establish standards for membership, the Corporation shall establish, as it deems necessary or appropriate, standards of financial responsibility, operational capability, experience and competence for membership applicable to Members and to Limited Members. The Corporation shall also establish guidelines for the application of such membership standards.

A. Qualifications

A Person shall be qualified to become a participant if it satisfies the qualifications for membership applicable to its membership type, as set forth in Addendum B of these Rules.

B. Membership Standards

* * *

C. Application Documents

Each applicant shall, as required by the Corporation from time to time, complete and deliver to the Corporation an Applicant Questionnaire in such form as prescribed by the Corporation from time to time and shall provide such other reports, opinions, financial and other information as the Corporation may determine are appropriate for each membership type.

As part of its membership application, each applicant (as determined by the Corporation with regard to membership type) shall complete and deliver to the Corporation (1) a Tax Certification, and (2) a Cybersecurity Confirmation.

Each applicant (as determined by the Corporation) must also fulfill, within the timeframes established by the Corporation, any operational testing requirements (the scope of such testing to be determined by the Corporation in its sole discretion), **network and connectivity testing at the current NSCC standards (the scope of such testing to be determined by the Corporation in its sole discretion)**, and related reporting requirements (such as reporting test results to the Corporation in a manner specified) that may be imposed by the Corporation to ensure the operational capability of the applicant.

* * *

RULE 2B. ONGOING MEMBERSHIP REQUIREMENTS AND MONITORING

SEC. 2. DATA TO BE FILED WITH THE CORPORATION

A. Reports and Information

Each Member, Mutual Fund/Insurance Services Member, Fund Member, and Insurance Carrier/Retirement Services Member (each hereinafter in this rule referred to collectively as “participants”) shall submit to the Corporation the following reports and information as applicable to such participant, together with all addenda and amendments applicable thereto, within the time periods prescribed by the Corporation from time to time. (Unless specifically set forth below, the time periods prescribed by the Corporation are set forth in the form of notices posted at the Corporation’s Website. Pursuant to Section 7 of Rule 45, it is the participant’s responsibility to retrieve all notices daily from the Website.):

* * *

(f) with respect to a participant that has received from its regulators an extension of time by which one of the above-listed reports or submissions to the regulator is otherwise due, a copy of the extension letter or other regulatory communication granting such extension; and

(g) with respect to a participant that has provided to the SEC any notice required pursuant to paragraph (e) of the SEC’s Rule 15c3-1 shall notify the Corporation of the provision of such notice, and shall furnish the Corporation with a copy of such notice, by the Close of Business on the day that it so provides such notice to the SEC.

Each Member and Limited Member shall complete and deliver to the Corporation a Cybersecurity Confirmation at least every two years, on a date that is set by the Corporation and following notice that is provided no later than 180 calendar days prior to such due date.

Each Member, Limited Member, or Sponsored Member shall maintain or upgrade their network technology, or communications technology or protocols on the systems that connect to the Corporation to the version being required and within the time periods as provided by Important Notice posted to the Corporation’s website.

* * *

RULE 7. COMPARISON AND TRADE RECORDING OPERATION
(INCLUDING SPECIAL REPRESENTATIVE/INDEX RECEIPT AGENT)

* * *

SEC. 6. The Corporation may determine, in its discretion, to accept, from self-regulatory organizations, as defined in the Securities Exchange Act, and/or derivatives clearing organizations that are registered or deemed to be registered with the Commodity Futures Trading Commission pursuant to the Commodity Exchange Act (either directly or through subsidiary or affiliated organizations¹) and/or service bureaus, initial, or supplemental trade data on behalf of Members for trade recording and input into the Corporation's Comparison Operation (with respect to debt securities) or compared trade data, on behalf of Members for input into the Corporation's Accounting Operation provided that a Member is a party to the trade or transaction. In determining whether to accept trade data from an organization, as described in this Section 6, the Corporation may require such organization to provide a Cybersecurity Confirmation, **and to maintain or upgrade their network technology, or communications technology or protocols on the systems that connect to the Corporation to the version being required and within the time periods,** as described in Rule 2B, Section 2A.

Such data shall be in a form acceptable to the Corporation, in its discretion, and within such time frames as the Corporation may, in its discretion, require. The Corporation shall deem the report of any such data by any such organization to have been authorized by the Member on whose behalf the data shall have been reported. Data reported by any such organization(s) to the Corporation shall not be deemed to be reported by the Member to the Corporation until such data is accepted by the Corporation.

* * *

¹ This may include a trade reporting facility that: (i) is affiliated with, and is operated as a facility of, a self-regulatory organization (SRO), and (ii) the rules and operations of which are the subject of a rule change of the SRO that has been duly filed with the SEC and is effective.

ADDENDUM P

FINE SCHEDULE

* * *

3) Failure to notify and supply required data as provided for under these Rules & Procedures **or to perform the upgrade to their network technology, or communications technology or protocols as required under these Rules in the time specified** (other than as provided in items one, two, four, five and six of this addendum): Each single offense, \$5,000.00 fine. If the Member's failure to notify applies to more than one DTCC clearing agency subsidiary (DTC, NSCC and/or FICC), the fine amount will be divided equally among the clearing agencies. Where the Member is a participant of DTC and is a common member of one or more of the other clearing agencies, the fine would be collected by DTC and allocated equally among other clearing agencies, as appropriate. If the member is not a DTC participant, but is a common member between NSCC and FICC, NSCC will collect the fine and allocate the appropriate portion to FICC

* * *