**Required fields are shown with yellow backgrounds and asterisks.**

**Page 1 of** 99  

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

**Filing by** Fixed Income Clearing Corporation  
**Pursuant to Rule 19b-4 under the Securities Exchange Act of 1934**

<table>
<thead>
<tr>
<th>Initial *</th>
<th>Amendment *</th>
<th>Withdrawal</th>
<th>Section 19(b)(2) *</th>
<th>Section 19(b)(3)(A) *</th>
<th>Section 19(b)(3)(B) *</th>
<th>Rule</th>
</tr>
</thead>
<tbody>
<tr>
<td>✅</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>19b-4(f)(4)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>19b-4(f)(5)</td>
<td>19b-4(f)(6)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Section 806(e)(1) *</th>
<th>Section 806(e)(2) *</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Section 3C(b)(2) *</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
</tr>
</tbody>
</table>

**Exhibit 2 Sent As Paper Document**

**Exhibit 3 Sent As Paper Document**

**Description**

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

Amend the Clearing Agency Model Risk Management Framework

**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.

<table>
<thead>
<tr>
<th>First Name *</th>
<th>Last Name *</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Title *</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>E-mail *</th>
</tr>
</thead>
<tbody>
<tr>
<td><a href="mailto:RuleFilingAdmin@dtcc.com">RuleFilingAdmin@dtcc.com</a></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Telephone *</th>
<th>Fax</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Signature**

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

<table>
<thead>
<tr>
<th>Date</th>
<th>(Title *)</th>
</tr>
</thead>
<tbody>
<tr>
<td>06/30/2023</td>
<td></td>
</tr>
</tbody>
</table>

**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: 2023.06.30  
14:40:12 -04'00'
### SECURITIES AND EXCHANGE COMMISSION
WASHINGTON, D.C. 20549

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

<table>
<thead>
<tr>
<th>Form 19b-4 Information *</th>
<th>Add</th>
<th>Remove</th>
<th>View</th>
</tr>
</thead>
</table>

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.

<table>
<thead>
<tr>
<th>Exhibit 1 - Notice of Proposed Rule Change *</th>
<th>Add</th>
<th>Remove</th>
<th>View</th>
</tr>
</thead>
</table>

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 - FICC - MRMF MHI - JP fin | 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.

- [ ] Exhibit Sent As Paper Document

| Exhibit 3 - Form, Report, or Questionnaire | Add | Remove | View |

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.

- [ ] 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 |

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.

- [ ] Exhibit 5 - REDACTED - 13 pages.doc

| 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 text of the proposed changes to the rules of Fixed Income Clearing Corporation (“FICC”) is annexed hereto as Exhibit 5.¹

   (b) Not applicable.

   (c) Not applicable.

2. **Procedures of the Self-Regulatory Organization**

   The proposed rule change was approved by a Deputy General Counsel of DTC, pursuant to delegated authority by the DTC Board of Directors, on June 29, 2023.

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

   (a) **Purpose**

   The proposed rule change of FICC amends the Clearing Agency Model Risk Management Framework (“Framework”) of FICC and its affiliates National Securities Clearing Corporation (“NSCC”), a central counterparty, together with FICC, the “CCPs,” and the CCPs together with The Depository Trust Company (“DTC,”), the “Clearing Agencies”).² The Framework was adopted by the Clearing Agencies to support their compliance with Rule 17Ad-22(e) (the “Covered Clearing Agency Standards”) under the Securities Exchange Act of 1934

1 Capitalized terms used herein and not defined shall have the meaning assigned to such terms in the FICC Rules, available at http://www.dtcc.com/legal/rules-and-procedures.aspx.

(“Act”), and, in this regard, applies solely to models utilized by the Clearing Agencies that are subject to the model risk management requirements set forth in Rules 17Ad-22(e)(4), (e)(6), and (e)(7) under the Act.

The proposed rule change would amend the Framework to account for and implement a new model performance monitoring and reporting tool (i.e., the Model Health Index (“MHI”)), to help the Clearing Agencies assess a model’s overall health between periodic validations, as described below.

3 17 CFR 240.17Ad-22(e). Each of DTC, NSCC and FICC is a “covered clearing agency” as defined in Rule 17Ad-22(a)(5) under the Act and must comply with Rule 17Ad-22(e).

4 Pursuant to Section 3.1 (Model Inventory) of the Framework, the Clearing Agencies have adopted the following definition of “model”: “[M]odel” refers to a quantitative method, system, or approach that applies statistical, economic, financial, or mathematical theories, techniques, and assumptions to process input data into quantitative estimates. A “model” consists of three components: (i) an information input component, which delivers assumptions and data to the model; (ii) a processing component, which transforms inputs into estimates; and (iii) a reporting component, which translates the estimates into useful business information. The definition of model also covers quantitative approaches whose inputs are partially or wholly qualitative or based on expert judgment, provided that the output is quantitative in nature. See 2017 Notice, supra note 1. See also Supervisory Guidance on Model Risk Management, SR Letter 11-7 Attachment, dated April 4, 2011, issued by the Board of Governors of the Federal Reserve System and the Office of the Comptroller of the Currency, available at https://www.federalreserve.gov/supervisionreg/srletters/sr1107a1.pdf, page 3.

5 17 CFR 240.17Ad-22(e)(4), (e)(6) and (e)(7). References to Rule 17Ad-22(e)(6) and compliance therewith apply to the CCPs only and not to DTC because DTC is not a central counterparty.

Background

The Framework outlines the applicable regulatory requirements mentioned above, describes the risks that the Clearing Agencies’ model risk management program are designed to mitigate, and sets forth specific model risk management practices and requirements adopted by the Clearing Agencies to help ensure compliance with the Covered Clearing Agency Standards. These practices and requirements include, among other things, the maintenance of a model inventory (“Model Inventory”), a process for rating model materiality and complexity, processes for performing model validations and resolving findings identified during model validation, and processes for model performance monitoring, including backtesting and sensitivity analyses. The Framework also describes applicable internal ownership and governance requirements.7

FICC’s Model Risk Management (“MRM”) group within the DTCC Group Chief Risk Office is responsible for the model risk management program of the Clearing Agencies, including, but not limited to, a periodic Model Validation for each model subject to the Framework that is approved for use in production not less than annually (or more frequently as may be contemplated by such Clearing Agency’s established risk management framework), including each credit risk model,8 each liquidity risk model,9 and each CCP’s margin systems and related models,10 as required by the risk management standards described within the Framework.

In addition to performing model validations, as described above, the Clearing Agencies monitor model performance. Pursuant to Section 3.8 of the Framework model performance monitoring (“MPM”) is the process evaluating an active model’s ongoing performance. The model owner (“Model Owner”)11 is responsible for composing an MPM plan (“MPM Plan”) for each model as part of model development, executing MPM activities according to each model’s MPM Plan and reporting MPM results to MRM. MRM is responsible for providing oversight of MPM activities by setting organizational standards and providing critical analysis for identifying model issues and/or limitations, and escalating issues pertaining to MPM to the Management Risk Committee (“MRC”) and/or Board Risk Committee (“BRC”) as necessary.

While the Clearing Agencies believe that their existing model risk assessment, performance monitoring reports and other metrics continue to be sufficient measures of the

7 See MRMF Filings, supra note 1, for additional information on the contents of the Framework.
8 See 17 CFR 240.17Ad-22(e)(4)(vii).
9 See 17 CFR 240.17Ad-22(e)(7)(vii).
11 Pursuant to Section 3.1 (Model Inventory) of the Framework, the person designated by the applicable business area or support function to be responsible for a particular model is recorded as the Model Owner for such model by MRM in the Model Inventory.
Clearing Agencies’ model risk, the Clearing Agencies propose to enhance their model performance monitoring processes with the addition of MHI, as described below.

**Proposed Rule Change**

Pursuant to the proposed rule change, the Clearing Agencies would update the Framework to account for and implement the MHI – a tool to assess a model’s overall health between periodic validations. As would be described in a new section of the Framework, the MHI would evaluate measurable indicators of a model’s overall fitness (e.g., performance monitoring and findings management), assess progress or deterioration over time, and synthesize all metrics into a model health rating (i.e., an MHI score). An MHI score would be calculated in the aggregate for all models in the Model Inventory.

An MHI score would be calculated for each model to facilitate not only an in-depth look into a particular model as needed but also its fitness for purpose (e.g., legal entity, business unit, model use, etc.). Indicators and factors considered in calculating an MHI score may be added or removed by a Clearing Agency, in accordance with its internal procedures, but the parameters and rationale of any additions or removals would be reflected in written procedures established by the applicable Clearing Agency. Indicators and factors that the Clearing Agencies may use include, but are not limited to:

A. **Model Grade**: reflects the updated model grade (“Model Grade”)\(^1\) after quarterly Risk Rating Assessment or after periodic validation/annual review.

B. **Approval Status**: applies to models that have not been approved but have been provisionally approved for use (in accordance with Section 3.6 (Model Approval and Control) of the Framework), or models rejected during their periodic validation process that are still in production but in the process of retirement.

C. **Number and Status of Findings**:
   - **Number of Validation Findings** – represents the risk engendered by the severity and number of findings identified during a review; it is more conservative than the validation thresholds and posits that each finding adds a layer of risk to the model.
   - **Number of Overdue Findings** – captures the marginal risk of findings that remain outstanding beyond the remediation timeframe determined during validation.
   - **Number of Remediated Findings** – acknowledges the reduction in findings risk and its positive contribution to alleviating model health.

D. **Model Performance Monitoring Result**: factors in updated model performance which, if results reflect a rating that may portend deterioration in overall model health and trigger escalation pursuant to a model’s MPM Plan.

\(^1\) As described in Section 3.3 (Model Validation) of the Framework, a Model Grade outlines the overall quality of the model developer’s efforts to develop the model and reflects the extent to which the model developer has effectively reduced model risk during model development.
E. **Compensating Control** recognizes the mitigating effect of controls in reducing associated risks.

F. **Model Dependencies**: captures the deterioration in upstream models that may negatively impact the health of individual and aggregate model risk of downstream models; measured using the upstream model’s most current residual risk rating.

As mentioned above, an aggregate MHI score would also be calculated considering individual MHI scores of all models in the Model Inventory. Such aggregate MHI score would be computed using such methodologies and/or factors as the Clearing Agencies deem appropriate from time to time to reflect aggregate model health.

MHI scores and related information would be reported to members of management and the Board of Directors (“Board”) of the applicable Clearing Agency that perform responsibilities regarding model risk management and compliance with the Framework, including the BRC, MRC and the Model Risk Governance Council (“MRGC”).

To effectuate this proposed change, the Framework would be revised to add a new Section 3.9 (Model Health Index), as noted above, that would provide for the MHI, as described above.

Separately, Section 1 (Executive Summary) of the Framework would be amended to list Section 3.9 as one of the topics that is discussed within the Framework, and section cross-references in the Framework would be updated to accommodate the addition of Section 3.9.

(b) **Statutory Basis**

The Clearing Agencies believe that the proposed rule change is consistent with Section 17A(b)(3)(F) of the Act, as well as Rules 17Ad-22(e)(4), (e)(6) and (e)(7) thereunder, for the reasons described below.

Section 17A(b)(3)(F) of the Act requires, inter alia, that the rules of a clearing agency be designed to assure the safeguarding of securities and funds which are in the custody or control of the clearing agency or for which it is responsible. As described above, the proposed rule change would revise the Framework to account for and implement the MHI, which would

---

13 In accordance with Section 3.2 of the Framework, the MRGC discusses and/or reviews certain model risk related matters which could result in advice and/or recommendation, which is generally directed to the interested party of a given model that brings the matter, as applicable.


15 17 CFR 240.17Ad-22(e)(4), (e)(6) and (e)(7).

enhance the Clearing Agencies’ ability to monitor the usefulness of models between periodic validations and provide applicable reporting and information to management and the applicable Board of the Clearing Agencies that perform responsibilities regarding model risk management and compliance with the Framework. By modifying the Framework in this regard, the proposed rule change supports the Clearing Agencies’ performance of their responsibilities under the Framework, including but not limited to assuring that models function as intended. Enhanced monitoring of the models between periodic validations further supports the Clearing Agencies in their safeguarding of securities and funds which are in the custody or control of the Clearing Agencies or for which they are responsible; thus, promoting the ability of the Clearing Agencies to better manage credit exposures and liquidity risk that may impact the safeguarding of those funds and securities.

Rule 17Ad-22(e)(4) under the Act,\textsuperscript{17} requires, inter alia, that a covered clearing agency establish, implement, maintain, and enforce written policies and procedures reasonably designed to manage risks associated with its credit risk management models. As discussed above, the proposed rule change would revise the Framework to provide for the MHI, which would enhance the Clearing Agencies’ ability to monitor the usefulness of models and provide applicable reporting and information to management and the applicable Board of the Clearing Agencies that perform responsibilities regarding model risk management and compliance with the Framework, which is designed, among other things, to manage liquidity risks in accordance Rule 17Ad-22(e)(4).\textsuperscript{18} By enhancing the Framework in this regard, the proposed rule change supports the Clearing Agencies’ performance of their responsibilities under the Framework, including but not limited to assuring that models developed function as intended to support the Clearing Agencies in identifying, measuring, monitoring, and managing their respective credit exposures to cover these risks. Therefore, the Clearing Agencies believe that the proposed changes to the Framework are consistent with Rule 17Ad-22(e)(4).\textsuperscript{19}

Rule 17Ad-22(e)(6) under the Act,\textsuperscript{20} requires, inter alia, that a covered clearing agency establish, implement, maintain, and enforce written policies and procedures reasonably designed to manage risks associated with its margin risk management models. As discussed above, the proposed rule change would revise the Framework to provide for the MHI, which would enhance the Clearing Agencies’ ability to monitor the usefulness of models and provide applicable reporting and information to management and the applicable Board of the Clearing Agencies that perform responsibilities regarding model risk management and compliance with the Framework, which is designed, among other things, to manage margin model risks in accordance Rule 17Ad-22(e)(6). References to Rule 17Ad-22(e)(6) and compliance therewith apply to the CCPs only and not to DTC because DTC is not a central counterparty.

\textsuperscript{17} 17 CFR 240.17Ad-22(e)(4).
\textsuperscript{18} Id.
\textsuperscript{19} Id.
\textsuperscript{20} 17 CFR 240.17Ad-22(e)(6). References to Rule 17Ad-22(e)(6) and compliance therewith apply to the CCPs only and not to DTC because DTC is not a central counterparty.
22(e)(6). By enhancing the Framework in this regard, the proposed rule change supports the Clearing Agencies’ performance of their responsibilities under the Framework, including but not limited to assuring that models developed function as intended to support the Clearing Agencies in identifying, measuring, monitoring, and managing their respective margin model risks to cover these risks. Therefore, the Clearing Agencies believe that the proposed changes to the Framework are consistent with Rule 17Ad-22(e)(6).

Rule 17Ad-22 (e)(7) under the Act requires, inter alia, that a covered clearing agency establish, implement, maintain, and enforce written policies and procedures reasonably designed to manage risks associated with its liquidity risk management models. As discussed above, the proposed rule change would revise the Framework to provide for the MHI, which would to enhance the Clearing Agencies’ ability to monitor the usefulness of models and provide applicable reporting and information to management and the applicable Board of the Clearing Agencies that perform responsibilities regarding model risk management and compliance with the Framework, which is designed, among other things, to manage liquidity risks in accordance with Rule 17Ad-22(e)(7). By enhancing the Framework in this regard, the proposed rule change supports the Clearing Agencies’ performance of their responsibilities under the Framework, including but not limited to assuring that models developed function as intended to support the Clearing Agencies in identifying, measuring, monitoring, and managing their respective liquidity risks to cover these risks. Therefore, the Clearing Agencies believe that the proposed changes to the Framework are consistent with Rule 17Ad-22(e)(7).

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

The Clearing Agencies do not believe that the proposed rule change would have any impact, or impose any burden, on competition because the proposed rule change simply modifies the Framework governing the management of model risk by the Clearing Agencies to add a new model risk reporting tool, as described above, and (a) would not effectuate any changes to the Clearing Agencies’ model risk management tools as they apply to their respective Members or Participants and (b) would not have an effect with respect to the obligations of participants utilizing Clearing Agency services.

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


21  Id.

22  Id.

23  17 CFR 240.17Ad-22(e)(7).

24  Id.

25  Id.
FICC has not received or solicited any written comments relating to this proposal. If any written comments are received, they would 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 Securities and Exchange Commission (“Commission”) 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 Commission’s instructions on how to submit comments, available at https://www.sec.gov/regulatory-actions/how-to-submitcomments. General questions regarding the rule filing process or logistical questions regarding this filing should be directed to the Main Office of the Commission’s Division of Trading and Markets at tradingandmarkets@sec.gov or 202-551-5777.

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

6. Extension of Time Period for Commission Action

Not applicable.

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

(a) The proposed rule change is to take effect immediately upon filing pursuant to Section 19(b)(3)(A) of the Act.26

(b) The proposed changes to the Framework would effect changes, that (A) would not adversely affect the safeguarding of securities or funds in the custody or control of FICC or for which it is responsible, and (B) would not significantly affect the respective rights or obligations of FICC or users of FICC’s services,27 because the proposed changes merely provide for the implementation of the MHI, which would provide an additional tool to enhance the ability of the Clearing Agencies to monitor and report the performance and usefulness of models between periodic validations/annual reviews.

(c) Not applicable.

(d) Not applicable.


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

While the proposed rule change is not based on the rules of another self-regulatory organization or of the Commission, the Framework is applicable to each of the Clearing Agencies, and each of the Clearing Agencies has filed similar proposed rule changes concurrently with this filing.

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

Not applicable.

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

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 – (a) DTCC Model Risk Management Policy, (b) Model Health Index Procedures and (c) DTCC Risk Tolerance Statement - 2023 – Model Risk. Omitted and filed separately with the Commission. Confidential treatment of this Exhibit 3 pursuant to 17 CFR 240.24b-2 requested.

Exhibit 4 – Not applicable.

Exhibit 5 – Clearing Agency Model Risk Management Framework (revised). Omitted and filed separately with the Commission. Confidential treatment of this Exhibit 5 pursuant to 17 CFR 240.24b-2 requested.
SECURITIES AND EXCHANGE COMMISSION  
(Release No. 34-[__________]; File No. SR-FICC-2023-008) 

[DATE] 

Self-Regulatory Organizations; Fixed Income Clearing Corporation; Notice of Filing and Immediate Effectiveness of Proposed Rule Change to Amend the Clearing Agency Model Risk Management Framework 

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 June __, 2023, Fixed Income Clearing Corporation (“FICC”) 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. FICC filed the proposed rule change pursuant to Section 19(b)(3)(A) of the Act\(^3\) and Rule 19b-4(f)(4) thereunder.\(^4\) 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 consists of amends the Clearing Agency Model Risk Management Framework (“Framework”) of FICC and its affiliates National Securities Clearing Corporation (“NSCC”), a central counterparty, together with FICC, the “CCPs,” and the CCPs together with The Depository Trust Company (“DTC,”) the “Clearing 

---


Agencies”). The Framework was adopted by the Clearing Agencies to support their compliance with Rule 17Ad-22(e) (the “Covered Clearing Agency Standards”) under the Act, and, in this regard, applies solely to models utilized by the Clearing Agencies that

---


6 17 CFR 240.17Ad-22(e). Each of DTC, NSCC and FICC is a “covered clearing agency” as defined in Rule 17Ad-22(a)(5) under the Act and must comply with Rule 17Ad-22(e).

7 Pursuant to Section 3.1 (Model Inventory) of the Framework, the Clearing Agencies have adopted the following definition of “model”: “[M]odel” refers to a quantitative method, system, or approach that applies statistical, economic, financial, or mathematical theories, techniques, and assumptions to process input data into quantitative estimates. A “model” consists of three components: (i) an information input component, which delivers assumptions and data to the model; (ii) a processing component, which transforms inputs into estimates; and (iii) a reporting component, which translates the estimates into useful business information. The definition of model also covers quantitative approaches whose inputs are partially or wholly qualitative or based on expert judgment, provided that the output is quantitative in nature. See 2017 Notice, supra note 9. See also Supervisory Guidance on Model Risk Management, SR Letter 11-7 Attachment, dated April 4, 2011, issued by the Board of Governors of the Federal Reserve System and the Office of the Comptroller of the Currency, available at https://www.federalreserve.gov/supervisionreg/srletters/sr1107a1.pdf, page 3.
are subject to the model risk management requirements set forth in Rules 17Ad-22(e)(4), (e)(6), and (e)(7) under the Act.\footnote{17 CFR 240.17Ad-22(e)(4), (e)(6) and (e)(7). References to Rule 17Ad-22(e)(6) and compliance therewith apply to the CCPs only and not to DTC because DTC is not a central counterparty.} as described in greater detail below.\footnote{Capitalized terms used herein and not defined shall have the meaning assigned to such terms in the FICC Rules, available at http://www.dtcc.com/legal/rules-and-procedures.aspx.}

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

The proposed rule change of FICC amends the Clearing Agency Model Risk Management Framework (“Framework”) of FICC and its affiliates National Securities Clearing Corporation (“NSCC”), a central counterparty, and together with FICC, the “CCPs,” and the CCPs together with The Depository Trust Company (“DTC,”) the “Clearing Agencies”).\footnote{The Framework sets forth the model risk management practices that the Clearing Agencies follow to identify, measure, monitor, and manage the risks associated with the design, development, implementation, use, and validation of quantitative models. The Framework is filed as a rule of the Clearing Agencies. See Securities} The Framework was adopted by the Clearing Agencies to
support their compliance with Rule 17Ad-22(e) (the “Covered Clearing Agency Standards”) under the Act,\(^\text{11}\) and, in this regard, applies solely to models\(^\text{12}\) utilized by the Clearing Agencies that are subject to the model risk management requirements set forth in Rules 17Ad-22(e)(4), (e)(6), and (e)(7) under the Act.\(^\text{13}\)

The proposed rule change would amend the Framework\(^\text{14}\) to account for and implement a new model performance monitoring and reporting tool (i.e., the Model Health Index (“MHI”)), to help the Clearing Agencies assess a model’s overall health between periodic validations, as described below.

\(^\text{11}\) 17 CFR 240.17Ad-22(e).

\(^\text{12}\) Supra note 7.

\(^\text{13}\) Supra note 8.

Background

The Framework outlines the applicable regulatory requirements mentioned above, describes the risks that the Clearing Agencies’ model risk management program are designed to mitigate, and sets forth specific model risk management practices and requirements adopted by the Clearing Agencies to help ensure compliance with the Covered Clearing Agency Standards. These practices and requirements include, among other things, the maintenance of a model inventory (“Model Inventory”), a process for rating model materiality and complexity, processes for performing model validations and resolving findings identified during model validation, and processes for model performance monitoring, including backtesting and sensitivity analyses. The Framework also describes applicable internal ownership and governance requirements.15

FICC’s Model Risk Management (“MRM”) group within the DTCC Group Chief Risk Office is responsible for the model risk management program of the Clearing Agencies, including, but not limited to, a periodic Model Validation for each model subject to the Framework that is approved for use in production not less than annually (or more frequently as may be contemplated by such Clearing Agency’s established risk management framework), including each credit risk model,16 each liquidity risk model,17

Rules, the “Rules”), because the Framework is a standalone document. See MRMF Filings, supra note 9.

15 See MRMF Filings, supra note 9, for additional information on the contents of the Framework.


17 See 17 CFR 240.17Ad-22(e)(7)(vii).
and each CCP’s margin systems and related models,\(^{18}\) as required by the risk
management standards described within the Framework.

In addition to performing model validations, as described above, the Clearing
Agencies monitor model performance. Pursuant to Section 3.8 of the Framework model
performance monitoring (“MPM”) is the process evaluating an active model’s ongoing
performance. The model owner (“Model Owner”)\(^ {19}\) is responsible for composing an
MPM plan (“MPM Plan”) for each model as part of model development, executing MPM
activities according to each model’s MPM Plan and reporting MPM results to MRM.
MRM is responsible for providing oversight of MPM activities by setting organizational
standards and providing critical analysis for identifying model issues and/or limitations,
and escalating issues pertaining to MPM to the Management Risk Committee (“MRC”) and/or Board Risk Committee (“BRC”) as necessary.

While the Clearing Agencies believe that their existing model risk assessment,
performance monitoring reports and other metrics continue to be sufficient measures of
the Clearing Agencies’ model risk, the Clearing Agencies propose to enhance their model
performance monitoring processes with the addition of MHI, as described below.

\(^{18}\) See 17 CFR 240.17Ad-22(e)(6)(vii).

\(^{19}\) Pursuant to Section 3.1 (Model Inventory) of the Framework, the person
designated by the applicable business area or support function to be responsible for a particular model is recorded as the Model Owner for such model by MRM in the Model Inventory.
Proposed Rule Change

Pursuant to the proposed rule change, the Clearing Agencies would update the Framework to account for and implement the MHI – a tool to assess a model’s overall health between periodic validations. As would be described in a new section of the Framework, the MHI would evaluate measurable indicators of a model’s overall fitness (e.g., performance monitoring and findings management), assess progress or deterioration over time, and synthesize all metrics into a model health rating (i.e., an MHI score). An MHI score would be calculated in the aggregate for all models in the Model Inventory.

An MHI score would be calculated for each model to facilitate not only an in-depth look into a particular model as needed but also its fitness for purpose (e.g., legal entity, business unit, model use, etc.). Indicators and factors considered in calculating an MHI score may be added or removed by a Clearing Agency, in accordance with its internal procedures, but the parameters and rationale of any additions or removals would be reflected in written procedures established by the applicable Clearing Agency.

Indicators and factors that the Clearing Agencies may use include, but are not limited to:

A. **Model Grade**: reflects the updated model grade (“Model Grade”)\(^{20}\) after quarterly Risk Rating Assessment or after periodic validation/annual review.

B. **Approval Status**: applies to models that have not been approved but have been provisionally approved for use (in accordance with Section 3.6 (Model Approval

---

\(^{20}\) As described in Section 3.3 (Model Validation) of the Framework, a Model Grade outlines the overall quality of the model developer’s efforts to develop the model and reflects the extent to which the model developer has effectively reduced model risk during model development.
and Control) of the Framework), or models rejected during their periodic
validation process that are still in production but in the process of retirement.

C. **Number and Status of Findings:**

- **Number of Validation Findings** – represents the risk engendered by the
  severity and number of findings identified during a review; it is more
  conservative than the validation thresholds and posits that each finding
  adds a layer of risk to the model.

- **Number of Overdue Findings** – captures the marginal risk of findings that
  remain outstanding beyond the remediation timeframe determined during
  validation.

- **Number of Remediated Findings** – acknowledges the reduction in findings
  risk and its positive contribution to alleviating model health.

D. **Model Performance Monitoring Result:** factors in updated model performance
which, if results reflect a rating that may portend deterioration in overall model
health and trigger escalation pursuant to a model’s MPM Plan.

E. **Compensating Control** recognizes the mitigating effect of controls in reducing
associated risks.

F. **Model Dependencies:** captures the deterioration in upstream models that may
negatively impact the health of individual and aggregate model risk of
downstream models; measured using the upstream model’s most current residual
risk rating.
As mentioned above, an aggregate MHI score would also be calculated considering individual MHI scores of all models in the Model Inventory. Such aggregate MHI score would be computed using such methodologies and/or factors as the Clearing Agencies deem appropriate from time to time to reflect aggregate model health.

MHI scores and related information would be reported to members of management and the Board of Directors (“Board”) of the applicable Clearing Agency that perform responsibilities regarding model risk management and compliance with the Framework, including the BRC, MRC and the Model Risk Governance Council (“MRGC”).

To effectuate this proposed change, the Framework would be revised to add a new Section 3.9 (Model Health Index), as noted above, that would provide for the MHI, as described above.

Separately, Section 1 (Executive Summary) of the Framework would be amended to list Section 3.9 as one of the topics that is discussed within the Framework, and section cross-references in the Framework would be updated to accommodate the addition of Section 3.9.

---

21 In accordance with Section 3.2 of the Framework, the MRGC discusses and/or reviews certain model risk related matters which could result in advice and/or recommendation, which is generally directed to the interested party of a given model that brings the matter, as applicable.
2. **Statutory Basis**

The Clearing Agencies believe that the proposed rule change is consistent with Section 17A(b)(3)(F) of the Act,\(^{22}\) as well as Rules 17Ad-22(e)(4), (e)(6) and (e)(7) thereunder,\(^{23}\) for the reasons described below.

Section 17A(b)(3)(F) of the Act\(^{24}\) requires, *inter alia*, that the rules of a clearing agency be designed to assure the safeguarding of securities and funds which are in the custody or control of the clearing agency or for which it is responsible. As described above, the proposed rule change would revise the Framework to account for and implement the MHI, which would enhance the Clearing Agencies’ ability to monitor the usefulness of models between periodic validations and provide applicable reporting and information to management and the applicable Board of the Clearing Agencies that perform responsibilities regarding model risk management and compliance with the Framework. By modifying the Framework in this regard, the proposed rule change supports the Clearing Agencies’ performance of their responsibilities under the Framework, including but not limited to assuring that models function as intended. Enhanced monitoring of the models between periodic validations further supports the Clearing Agencies in their safeguarding of securities and funds which are in the custody or control of the Clearing Agencies or for which they are responsible; thus, promoting the ability of the Clearing Agencies to better manage credit exposures and liquidity risk that may impact the safeguarding of those funds and securities.

---


\(^{23}\) 17 CFR 240.17Ad-22(e)(4), (e)(6) and (e)(7).

Rule 17Ad-22(e)(4) under the Act, requires, , that a covered clearing agency establish, implement, maintain, and enforce written policies and procedures reasonably designed to manage risks associated with its credit risk management models. As discussed above, the proposed rule change would revise the Framework to provide for the MHI, which would enhance the Clearing Agencies’ ability to monitor the usefulness of models and provide applicable reporting and information to management and the applicable Board of the Clearing Agencies that perform responsibilities regarding model risk management and compliance with the Framework, which is designed, among other things, to manage liquidity risks in accordance Rule 17Ad-22(e)(4). By enhancing the Framework in this regard, the proposed rule change supports the Clearing Agencies’ performance of their responsibilities under the Framework, including but not limited to assuring that models developed function as intended to support the Clearing Agencies in identifying, measuring, monitoring, and managing their respective credit exposures to cover these risks. Therefore, the Clearing Agencies believe that the proposed changes to the Framework are consistent with Rule 17Ad-22(e)(4).

Rule 17Ad-22(e)(6) under the Act, requires, , that a covered clearing agency establish, implement, maintain, and enforce written policies and procedures

26 Id.
27 Id.
28 17 CFR 240.17Ad-22(e)(6). References to Rule 17Ad-22(e)(6) and compliance therewith apply to the CCPs only and not to DTC because DTC is not a central counterparty.
reasonably designed to manage risks associated with its margin risk management models. As discussed above, the proposed rule change would revise the Framework to provide for the MHI, which would enhance the Clearing Agencies’ ability to monitor the usefulness of models and provide applicable reporting and information to management and the applicable Board of the Clearing Agencies that perform responsibilities regarding model risk management and compliance with the Framework, which is designed, among other things, to manage margin model risks in accordance Rule 17Ad-22(e)(6). By enhancing the Framework in this regard, the proposed rule change supports the Clearing Agencies’ performance of their responsibilities under the Framework, including but not limited to assuring that models developed function as intended to support the Clearing Agencies in identifying, measuring, monitoring, and managing their respective margin model risks to cover these risks. Therefore, the Clearing Agencies believe that the proposed changes to the Framework are consistent with Rule 17Ad-22(e)(6).

Rule 17Ad-22 (e)(7) under the Act requires, inter alia, that a covered clearing agency establish, implement, maintain, and enforce written policies and procedures reasonably designed to manage risks associated with its liquidity risk management models. As discussed above, the proposed rule change would revise the Framework to provide for the MHI, which would to enhance the Clearing Agencies’ ability to monitor the usefulness of models and provide applicable reporting and information to management and the applicable Board of the Clearing Agencies that perform

---

29 Id.  
30 Id.  
31 17 CFR 240.17Ad-22(e)(7).
responsibilities regarding model risk management and compliance with the Framework, which is designed, among other things, to manage liquidity risks in accordance Rule 17Ad-22(e)(7). By enhancing the Framework in this regard, the proposed rule change supports the Clearing Agencies’ performance of their responsibilities under the Framework, including but not limited to assuring that models developed function as intended to support the Clearing Agencies in identifying, measuring, monitoring, and managing their respective liquidity risks to cover these risks. Therefore, the Clearing Agencies believe that the proposed changes to the Framework are consistent with Rule 17Ad-22(e)(7).

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

The Clearing Agencies do not believe that the proposed rule change would have any impact, or impose any burden, on competition because the proposed rule change simply modifies the Framework governing the management of model risk by the Clearing Agencies to add a new model risk reporting tool, as described above, and (a) would not effectuate any changes to the Clearing Agencies’ model risk management tools as they apply to their respective Members or Participants and (b) would not have an effect with respect to the obligations of participants utilizing Clearing Agency services.

32 Id.
33 Id.
(C) Clearing Agency’s Statement on Comments on the Proposed Rule Change Received from Members, Participants, or Others

FICC has not received or solicited any written comments relating to this proposal. If any written comments are received, they would 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 Commission 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 Commission’s instructions on how to submit comments, available at https://www.sec.gov/regulatory-actions/how-to-submitcomments. General questions regarding the rule filing process or logistical questions regarding this filing should be directed to the Main Office of the Commission’s Division of Trading and Markets at tradingandmarkets@sec.gov or 202-551-5777.

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

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

The foregoing rule change has become effective pursuant to Section 19(b)(3)(A)\(^{34}\) of the Act and paragraph (f)\(^{35}\) of Rule 19b-4 thereunder. At any time within 60 days of the filing of the proposed rule change, the Commission summarily may temporarily


suspend such rule change if it appears to the Commission that such action is necessary or appropriate in the public interest, for the protection of investors, or otherwise in furtherance of the purposes of the Act.

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-FICC-2023-008 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-FICC-2023-008. 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 FICC 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-FICC-2023-008 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.36

Secretary

---

PAGE REDACTED IN ITS ENTIRETY
PAGE REDACTED IN ITS ENTIRETY
PAGE REDACTED IN ITS ENTIRETY
PAGE REDACTED IN ITS ENTIRETY
PAGE REDACTED IN ITS ENTIRETY
PAGE REDACTED IN ITS ENTIRETY
PAGE REDACTED IN ITS ENTIRETY
PAGE REDACTED IN ITS ENTIRETY
PAGE REDACTED IN ITS ENTIRETY
PAGE REDACTED IN ITS ENTIRETY
PAGE REDACTED IN ITS ENTIRETY
PAGE REDACTED IN ITS ENTIRETY
PAGE REDACTED IN ITS ENTIRETY
PAGE REDACTED IN ITS ENTIRETY
PAGE REDACTED IN ITS ENTIRETY
PAGE REDACTED IN ITS ENTIRETY
PAGE REDACTED IN ITS ENTIRETY
PAGE REDACTED IN ITS ENTIRETY
PAGE REDACTED IN ITS ENTIRETY
PAGE REDACTED IN ITS ENTIRETY
PAGE REDACTED IN ITS ENTIRETY
PAGE REDACTED IN ITS ENTIRETY
PAGE REDACTED IN ITS ENTIRETY
PAGE REDACTED IN ITS ENTIRETY
PAGE REDACTED IN ITS ENTIRETY
PAGE REDACTED IN ITS ENTIRETY
PAGE REDACTED IN ITS ENTIRETY
PAGE REDACTED IN ITS ENTIRETY
PAGE REDACTED IN ITS ENTIRETY
PAGE REDACTED IN ITS ENTIRETY
PAGE REDACTED IN ITS ENTIRETY
PAGE REDACTED IN ITS ENTIRETY
PAGE REDACTED IN ITS ENTIRETY
PAGE REDACTED IN ITS ENTIRETY
PAGE REDACTED IN ITS ENTIRETY
PAGE REDACTED IN ITS ENTIRETY
PAGE REDACTED IN ITS ENTIRETY
PAGE REDACTED IN ITS ENTIRETY
PAGE REDACTED IN ITS ENTIRETY
PAGE REDACTED IN ITS ENTIRETY
PAGE REDACTED IN ITS ENTIRETY
PAGE REDACTED IN ITS ENTIRETY
PAGE REDACTED IN ITS ENTIRETY
PAGE REDACTED IN ITS ENTIRETY
PAGE REDACTED IN ITS ENTIRETY
PAGE REDACTED IN ITS ENTIRETY
PAGE REDACTED IN ITS ENTIRETY
PAGE REDACTED IN ITS ENTIRETY
PAGE REDACTED IN ITS ENTIRETY
PAGE REDACTED IN ITS ENTIRETY
PAGE REDACTED IN ITS ENTIRETY
PAGE REDACTED IN ITS ENTIRETY
PAGE REDACTED IN ITS ENTIRETY
PAGE REDACTED IN ITS ENTIRETY
PAGE REDACTED IN ITS ENTIRETY
PAGE REDACTED IN ITS ENTIRETY
PAGE REDACTED IN ITS ENTIRETY
PAGE REDACTED IN ITS ENTIRETY
PAGE REDACTED IN ITS ENTIRETY
PAGE REDACTED IN ITS ENTIRETY
PAGE REDACTED IN ITS ENTIRETY