

Required fields are shown with yellow backgrounds and asterisks.

Page 1 of \* 122

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

File No. \* SR 2022 - \* 005

Amendment No. (req. for Amendments \*)

Filing by Fixed Income Clearing Corporation

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

Initial * <input checked="" type="checkbox"/>	Amendment * <input type="checkbox"/>	Withdrawal <input type="checkbox"/>	Section 19(b)(2) * <input checked="" type="checkbox"/>	Section 19(b)(3)(A) * <input type="checkbox"/>	Section 19(b)(3)(B) * <input type="checkbox"/>
--	---	--	---	---	---

Pilot <input type="checkbox"/>	Extension of Time Period for Commission Action * <input type="checkbox"/>	Date Expires * <input type="text"/>
-----------------------------------	--	--

Rule

<input type="checkbox"/> 19b-4(f)(1)	<input type="checkbox"/> 19b-4(f)(4)
<input type="checkbox"/> 19b-4(f)(2)	<input type="checkbox"/> 19b-4(f)(5)
<input type="checkbox"/> 19b-4(f)(3)	<input type="checkbox"/> 19b-4(f)(6)

Notice of proposed change pursuant to the Payment, Clearing, and Settlement Act of 2010  
Section 806(e)(1) \*

Section 806(e)(2) \*

Security-Based Swap Submission pursuant to the Securities Exchange Act of 1934  
Section 3C(b)(2) \*

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 \*).

Revise the Formula Used to Calculate the VaR Charge for Repo Interest Volatility

**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 \*

Telephone \*  Fax

**Signature**

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

Date  (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: 2022.06.29  
10:04:44 -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 - FICC GSD Repo Interest -

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 - GSD Repo Interest - Fina

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.

Exhibit Sent As Paper Document

**Exhibit 3 - Form, Report, or Questionnaire**

Add Remove View

Exhibit 3a (Redacted) - Excerpt of GSI  
Exhibit 3b (Redacted) - Excerpt of GSI  
Exhibit 3c - (Redacted) - Summary of I

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

Exhibit 5 - (Redacted) - GSD Repo Int

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 Fixed Income Clearing Corporation (“FICC”) is annexed hereto as Exhibit 5.<sup>1</sup>

FICC is proposing to amend the GSD Methodology Document – GSD Initial Market Risk Margin Model (“QRM Methodology Document”)<sup>2</sup> in order to revise the formula used to calculate the VaR Charge (as defined below) for repo interest volatility and make conforming changes to the description of this formula. In addition, FICC is proposing to amend the QRM Methodology Document to make certain technical changes, as described in greater detail below.

FICC is requesting confidential treatment of the QRM Methodology Document and has filed it separately with the Secretary of the U.S. Securities and Exchange Commission (the “Commission”).<sup>3</sup>

(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 Board of Directors on October 26, 2021.

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

### (a) Purpose

FICC is proposing to amend the QRM Methodology Document to revise the formula used to calculate the VaR Charge for repo interest volatility and make conforming changes to the description of this formula. In addition, FICC is proposing to amend the QRM Methodology Document to make certain technical changes.

---

<sup>1</sup> Capitalized terms used herein and not defined shall have the meaning assigned to such terms in the FICC Government Securities Division (“GSD”) Rulebook (“Rules”), available at <http://www.dtcc.com/legal/rules-and-procedures.aspx>.

<sup>2</sup> The GSD QRM Methodology Document was filed as a confidential exhibit in the rule filing and advance notice for GSD sensitivity VaR. See Securities Exchange Act Release Nos. 83362 (June 1, 2018), 83 FR 26514 (June 7, 2018) (SR-FICC-2018-001) and 83223 (May 11, 2018), 83 FR 23020 (May 17, 2018) (SR-FICC-2018-801).

<sup>3</sup> 17 CFR 240.24b-2.

(1) *Revise the Formula Used to Calculate the VaR Charge for Repo Interest Volatility and Make Conforming Changes*

FICC, through GSD, serves as a central counterparty (“CCP”) and provider of clearance and settlement services for the U.S. government securities market. A key tool that FICC uses to manage its credit exposures to its Members is the daily collection of margin from each Member. The aggregated amount of all Members’ margin constitutes the Clearing Fund, which FICC would be able to access should a defaulted Member’s own margin be insufficient to satisfy losses to FICC caused by the liquidation of that Member’s portfolio. Each Member’s margin consists of a number of applicable components, including a value-at-risk (“VaR”) charge (“VaR Charge”) designed to capture the potential market price risk associated with the securities in a Member’s portfolio. The VaR Charge is typically the largest component of a Member’s margin requirement. The VaR Charge is designed to cover FICC’s projected liquidation losses with respect to a defaulted Member’s portfolio at a 99% confidence level.

The VaR Charge includes a component that addresses repo interest volatility, which the QRM Methodology Document refers to as the “repo interest volatility charge.” Interest on a repurchase (“repo”) transaction, hereinafter referred to as “repo interest,” is the difference between the repurchase settlement amount and the start amount paid on the repo inception date. In its role as a CCP in clearing a repo transaction, FICC guarantees that the borrowers receive their repo collateral back at the close of the repo transaction while lenders receive the start amount paid on the repo inception date plus repo interest. The market value of interest payments for the remaining life of the repo trades are subject to the risk of movements of the market repo interest rates. Since FICC guarantees the repo interest payment to the lenders, this risk needs to be mitigated. The repo interest volatility charge is designed to mitigate such risk, i.e., the risk arising out of fluctuations in market repo interest rates during the margin period of risk (“MPOR”). MPOR is currently set at 3 days for FICC. It represents the duration of time when a CCP is exposed to market risk post-member default, starting from the time of the last successful margin collection to the time the market risk exposure is effectively mitigated. The repo interest volatility charge is a small component of the total GSD margin (currently about 3% at CCP level).

The QRM Methodology Document contains the formula for the calculation of the repo interest volatility charge and describes the components and calculation thereof.

Currently, the repo interest volatility charge is assessed through application of a haircut schedule with a single haircut rate applied to each risk bucket after netting short and long repo interest positions within the relevant risk bucket. Specifically, under the current formula, the repo interest positions for a given Member portfolio are put into different risk buckets based on (a) whether the underlying repo trade is a generic repo trade or a special repo trade and (b) the time to settlement of the underlying repo trade. The total net amount of each risk bucket is calculated as the sum of the product of repo start amount and the time to settlement of each repo interest position in that risk bucket. If the total net amount is positive (long), then the long repo haircut rate for that specific risk bucket is applied to the total net amount for that specific risk bucket to arrive at the repo interest volatility charge for that specific risk bucket. If the total net amount is negative (short), then the short repo haircut rate for that specific risk bucket is applied to the absolute value of the total net amount to arrive at the repo interest volatility charge for that specific risk bucket. The total repo interest volatility charge for the portfolio is the sum of the repo interest volatility charges of all

of the risk buckets in the portfolio. As such, the current formula reflects a repo interest rate index driven approach where a single repo haircut rate is applied to the absolute value of the total net amount of each risk bucket of repo interest positions.<sup>4</sup>

In order to provide FICC with more flexibility with respect to the calculation of the repo interest volatility charge so FICC can respond to rapidly changing market conditions more quickly and timely, FICC is proposing revisions to the current formula. The proposed new formula is similar to the current formula in certain respects. For example, the proposed new formula would continue to be repo interest rate index driven and would use a similar mathematical calculation as the current formula. In addition, under the proposed new formula, the repo interest positions for a given Member portfolio would continue to be placed into risk buckets based on (a) whether the underlying repo trade is a generic repo trade or a special repo trade and (b) the time to settlement of the underlying repo trade. However, unlike the current formula, more than one repo haircut rate could apply to each risk bucket. This is because the repo haircut rate that would be applied would no longer be based on whether the total net amount for a specific risk bucket is long or short. Instead, as proposed, the specific repo haircut rate to be applied would be based on whether the individual repo interest position in a specific risk bucket is either long or short. Specifically, as proposed, FICC would apply a long repo haircut rate to all the long positions and a short repo haircut rate to all the short positions in each risk bucket. The long positions and the short positions can offset each other within the same risk bucket but cannot offset each other across different risk buckets. As proposed, the repo interest volatility charge for a specific risk bucket would be the absolute value of the sum of the product of repo start amount, time to settlement, and repo haircut rate of the individual repo interest positions in the risk bucket. However, as is the case with the current formula, the total repo interest volatility charge for the portfolio would still be the sum of the repo interest volatility charges of all of the risk buckets in the portfolio. Doing so would provide FICC the flexibility to use two haircuts for each risk bucket, one for long positions and the other for short positions,<sup>5</sup> thus allowing FICC to respond to rapidly changing market conditions more quickly and timely, particularly when the long and short repo interest positions exhibit very different risk profiles. In turn, the proposed changes would help better ensure that FICC calculates and collects adequate margin from Members and lead to a better risk management practice.

Based on FICC's 2020 and 2021 annual model validation reports, the rolling 12-month backtest coverage on the sub-portfolios of repo interest only positions had been below the 99 percent coverage target from June 2019 to September 2020. In order to improve the backtesting coverage, FICC is also proposing to add a repo bid/ask spread to each repo haircut rate (one for long positions and one for short positions) within the same risk bucket. The repo bid/ask spread would be calculated based on the historical percentile movements of the internally constructed repo interest rate indices. FICC is proposing to add the repo bid/ask spread to each repo haircut rate to account

---

<sup>4</sup> FICC has developed its repo interest rate indices using FICC delivery-versus-payment repo transactions.

<sup>5</sup> As an initial matter, FICC would take a streamlined and prudent approach by setting the repo haircut rates for long positions and short positions to be the same rate, i.e., the larger of the two rates, so that the long and short positions in a specific risk bucket would be subject to the same repo haircut rate.

for the difference observed in the repo market between the highest rate a repo participant is willing to pay to borrow money in a repo trade and the lowest rate a repo participant is willing to accept to lend money in a repo trade. FICC believes adding the repo bid/ask spread to each of the repo haircut rates would improve backtesting coverage, particularly with respect to sub-portfolios of repo interest only positions.

For example, assuming a portfolio contains two repo interest positions, both with half a year to settlement, one position has a repo start amount of +\$1 million, and the other has a repo start amount of -\$0.8 million. In this example, the two repo interest positions have the same time to settlement, so they would fall into the same risk bucket. Let's further assume that for that specific risk bucket, the long repo haircut rate is 40 bps and the short repo haircut rate is 45 bps.

Under the current formula, we first calculate the total net amount of the risk bucket by adding the product of repo start amount and the time to settlement of the two repo interest positions, i.e.,  $(+\$1 \text{ million} * 0.5 \text{ year}) + (-\$0.8 \text{ million} * 0.5 \text{ year})$ . As calculated, the total net amount is +\$100,000. Given that the total net amount is positive (long), we apply the long repo haircut rate of 40 bps, i.e.,  $\$100,000 * 40 \text{ bps}$ , and calculate the repo interest volatility charge for the portfolio as \$400.

Under the proposed new formula, we would calculate the individual repo interest positions and apply the applicable repo haircut rate at the position level. Specifically, we would first calculate each repo interest position by multiplying the repo start amount and the time to settlement, i.e.,  $(+\$1 \text{ million} * 0.5 \text{ year}) = +\$500,000$ , and then apply the applicable repo haircut rate, i.e., because +\$500,000 is a long position, we would apply the long repo haircut rate of 40 bps and calculate the amount for that long position as \$2,000. For the second repo interest position, we would first multiply the repo start amount  $(-\$0.8 \text{ million})$  and the time to settlement  $(0.5 \text{ year})$  and get  $-\$400,000$ . Given it is a short position, we would apply the short repo haircut rate of 45 bps and calculate the amount for that short position as  $-\$1,800$ . For the repo interest volatility charge for the portfolio, we would take the absolute value of the sum of the two amounts  $(\$2,000 + (-\$1,800))$  and get \$200 as the repo interest volatility charge for the portfolio using the proposed new formula.<sup>6,7</sup>

---

<sup>6</sup> As an initial matter, FICC would set the repo haircut rates for long positions and short positions to be the same rate, i.e., the larger of the two rates, so that the long and short positions in a specific risk bucket would be subject to the same repo haircut rate. Supra note 5. Using the new proposed formula under this approach, the repo interest volatility charge for the portfolio would be \$450. Instead of using 40 bps for long positions and 45 bps for short positions, we would apply 45 bps (the larger of the two rates) to both the long and short positions in the risk bucket, i.e.,  $(+\$500,000 * 45 \text{ bps})$  and  $(-\$400,000 * 45 \text{ bps})$ , and get \$2,250 and  $-\$1,800$  as the haircut amounts, respectively. The repo interest volatility charge for the portfolio would then be calculated by adding \$2,250 and  $-\$1,800$ , i.e., \$450.

<sup>7</sup> Under the proposed new formula, the repo interest volatility charge would always be a positive number because the calculation thereof is based on the absolute value of the sum of the relevant amounts.

The QRM Methodology Document also contains a detailed description of the repo haircut rate calculation for all risk buckets. FICC is proposing to eliminate this detailed description from the QRM Methodology Document and replace it with a more general description of the repo haircut rate calculation. FICC believes that having a more general description would provide FICC with more flexibility to respond to rapidly changing market conditions more quickly and timely by enabling FICC to adjust how the repo haircut rate is calculated without undergoing a rule filing process.<sup>8</sup> By being able to quickly make adjustments to the calculation of the repo haircut rate, FICC would be able to better risk manage the repo interest positions. Specifically, FICC believes this proposed change would enable FICC to make appropriate and timely adjustments to the repo haircut rates based on an evaluation of a number of factors, including, but not limited to, repo interest rate volatility outlook and backtesting coverage results. Furthermore, there are certain known data availability limitations with respect to the current repo interest rate index. That is, the current repo interest rate index is missing data for a volatile period, so repo haircut rates that have been calibrated based on the current repo interest rate index may not be sufficient if the repo market were to experience heightened volatility. FICC believes the proposed changes would therefore also help counterbalance potential data availability limitation issues by enabling FICC to adjust how the repo haircut rate is calculated more quickly and timely and thereby provide FICC with the flexibility to respond to rapidly changing market conditions more quickly and effectively.

FICC would instead describe the detailed calculations of the repo haircut rates in an internal standalone document. Nonetheless, any future changes to the repo haircut rate calculations would continue to follow DTCC's internal model governance procedure as described in the Clearing

---

For example, assuming a portfolio contains two repo interest positions, both with half a year to settlement, one position has a repo start amount of -\$1 million, and the other has a repo start amount of +\$0.8 million. In this example, the two repo interest positions have the same time to settlement, so they would fall into the same risk bucket. Let's further assume that for that specific risk bucket, the long repo haircut rate is 45 bps and the short repo haircut rate is 40 bps. Under the proposed new formula, we would first calculate each repo interest position by multiplying the repo start amount and the time to settlement, i.e.,  $(-\$1 \text{ million} * 0.5 \text{ year}) = -\$500,000$ , and then apply the applicable repo haircut rate, i.e., because  $-\$500,000$  is a short position, we would apply the short repo haircut rate of 40 bps and calculate the amount for that short position as  $-\$2,000$ . For the second repo interest position, we would first multiply the repo start amount ( $+\$0.8 \text{ million}$ ) and the time to settlement (0.5 year) and get  $+\$400,000$ . Given it is a long position, we would apply the long repo haircut rate of 45 bps and calculate the amount for that long position as  $+\$1,800$ . For the repo interest volatility charge for the portfolio, we would take the absolute value of the sum of the two amounts, i.e.,  $\text{abs}(-\$2,000 + (\$1,800))$  and get  $\$200$  as the repo interest volatility charge for the portfolio using the proposed new formula.

<sup>8</sup> Pursuant to Section 806(e)(1) of Title VIII of the Dodd-Frank Wall Street Reform and Consumer Protection Act and Rule 19b-4(n)(1)(i) under the Securities and Exchange Act of 1934 ("Act"), if a change materially affects the nature or level of risks presented by FICC, then FICC is required to file an advance notice filing. 12 U.S.C. 5465(e)(1) and 17 CFR 240.19b-4(n)(1)(i).

Agency Model Risk Management Framework.<sup>9</sup> In addition, the repo haircut rates would continue to be tracked in the monthly model parameter report.

Accordingly, FICC believes that revising the formula for the calculation of the repo interest volatility charge as described above and replacing the current specific description with a more general description in the QRM Methodology Document would collectively provide FICC with more flexibility and allow FICC to respond to rapidly changing market conditions more quickly by enabling FICC to adjust how the repo haircut rate is calculated without a rule filing. In addition, FICC believes that the proposed changes would enable FICC to better address the backtest coverage issue and thereby risk manage the repo interest positions more effectively.

### Impact Study

FICC conducted an impact study for the period of January 2018 to February 2022 (“Impact Study”). The result of the Impact Study indicates that, at the CCP level, if the proposed changes had been in place, the backtesting coverage ratio for the repo interest volatility charge would have increased from approximately 98.7% to 99.2%.

Specifically, the Impact Study shows that had the proposed changes been in place from January 2018 to February 2022, it would have affected 90 out of 145 (approximately 62%) portfolios of GSD Members per day on average, and the average daily margin increase of the VaR Charge for these Member portfolios would have been approximately \$0.7 million (representing approximately 3% of their average daily VaR Charge). For GSD, the proposed changes would have resulted in an average daily VaR Charge increase of approximately \$86 million (representing approximately 0.8% of the average daily VaR Charge).

### (2) Technical Changes

FICC is also proposing to make certain technical changes to the QRM Methodology Document to enhance clarity.

---

<sup>9</sup> The Clearing Agency Model Risk Management Framework (“Framework”) sets forth the model risk management practices that FICC and its affiliates The Depository Trust Company (“DTC”) and National Securities Clearing Corporation (“NSCC,” and together with FICC and DTC, 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 Exchange Act Release Nos. 81485 (August 25, 2017), 82 FR 41433 (August 31, 2017) (File Nos. SR-DTC-2017-008; SR-FICC-2017-014; SR-NSCC-2017-008), 88911 (May 20, 2020), 85 FR 31828 (May 27, 2020) (File Nos. SR-DTC-2020-008; SR-FICC-2020-004; SR-NSCC-2020-008), 92380 (July 13, 2021), 86 FR 38140 (July 19, 2021) (File No. SR-FICC-2021-006), 92381 (July 13, 2021), 86 FR 38163 (July 19, 2021) (File No. SR-NSCC-2021-008) and 92379 (July 13, 2021), 86 FR 38143 (July 19, 2021) (File No. SR-DTC-2021-003).



FICC proposes to revise the term “GCF Repo” to “repo” in “2.1 Market risks associated with products cleared by GSD” and “3.2.4 Repo Interest Volatility Charge” sections of the QRM Methodology Document for clarity.

In “2.5.4. Repo Interest Volatility Charge” and “3.2.4 Repo Interest Volatility Charge” sections of the QRM Methodology Document, FICC proposes to change “inception date” to “repo inception date” and “above” to “in the above sections” to enhance clarity. FICC also proposes to clarify and update certain descriptions in the “2.5.4. Repo Interest Volatility Charge” and “3.2.4 Repo Interest Volatility Charge” sections. For example, FICC is proposing to clarify the description of the risk that the repo interest volatility charge is designed to address and the repo trades that it applies to. In addition, FICC is proposing to update the paragraphs in “2.5.4. Repo Interest Volatility Charge” section describing the use of risk buckets to reflect the current practice.

Furthermore, FICC proposes to change “repurchase price” to “repurchase settlement amount” and “original sale price” to “start amount paid on the repo inception date” in “3.2.4 Repo Interest Volatility Charge” section for clarity. To enhance the clarity of the QRM Methodology Document, FICC also proposes to remove a formula from “3.2.4 Repo Interest Volatility Charge” section of the QRM Methodology Document that is no longer used but had been included for historical reference.

In addition, FICC is proposing to clarify the description of the repo interest curve in “3.2.4 Repo Interest Volatility Charge” section of the QRM Methodology Document, including, among other things, the description the categories that a collateral security in a repo trade can be designated as and how those categories are treated in the repo interest volatility charge calculation, as well as how the repo rate indices are constructed. FICC also proposes to add that any changes or adjustments to the repo haircut rate calculation would need to go through DTCC’s model governance process.

Lastly, FICC is proposing certain grammar-related technical changes in “2.1 Market risks associated with products cleared by GSD” and “3.2.4 Repo Interest Volatility Charge” sections of the QRM Methodology Document.

#### *Implementation Timeframe*

Subject to approval by the Commission, FICC would implement the proposed rule changes approximately within 30 days following such approval and would announce the effective date of the proposed change by an Important Notice posted to its website.

#### (b) Statutory Basis

FICC believes this proposal is consistent with the requirements of the Act, and the rules and regulations thereunder applicable to a registered clearing agency. Specifically, FICC

believes that the proposed changes to the Rules and the QRM Methodology Document described above are consistent with Section 17A(b)(3)(F) of the Act, for the reasons described below.<sup>10</sup>

Section 17A(b)(3)(F) of the Act requires, in part, 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.<sup>11</sup>

FICC believes that the proposed changes to the QRM Methodology Document described in Item 3(a)(1) above to revise the formula used to calculate the VaR Charge for repo interest volatility and make conforming changes to the description of this formula are designed to assure the safeguarding of securities and funds which are in the custody or control of FICC or for which it is responsible, consistent with Section 17A(b)(3)(F) of the Act.<sup>12</sup> As described above, FICC believes these proposed changes would provide FICC with more flexibility with respect to the calculation of the repo interest volatility charge and thus allow FICC to respond to rapidly changing market conditions more quickly and timely, particularly when the long and short repo interest positions exhibit very different risk profiles. FICC believes that having more flexibility with respect to this calculation would help better ensure that FICC calculates and collects adequate margin from Members and thereby would assure the safeguarding of securities and funds which are in the custody and control of FICC or for which it is responsible, consistent with Section 17A(b)(3)(F) of the Act.<sup>13</sup>

FICC believes that the proposed technical changes described in Item 3(a)(2) above would enhance the clarity of the QRM Methodology Document for FICC. As the QRM Methodology Document is used by FICC Risk Management personnel regarding the calculation of margin requirements, it is therefore important that FICC Risk Management has a clear description of the calculation of the margin methodology. Having a clear description of the calculation of the margin methodology would promote an accurate and smooth functioning of the margining process. Having an accurate and smooth functioning of the margining process would help better ensure that FICC calculates and collects adequate margin from Members and thereby assure the safeguarding of securities and funds which are in the custody and control of FICC or for which it is responsible. As such, FICC believes that enhancing the clarity of the QRM Methodology Document would assure the safeguarding of securities and funds which are in the custody or control of FICC or for which it is responsible, consistent with Section 17A(b)(3)(F) of the Act.<sup>14</sup>

---

<sup>10</sup> 15 U.S.C. 78q-1(b)(3)(F).

<sup>11</sup> Id.

<sup>12</sup> Id.

<sup>13</sup> Id.

<sup>14</sup> Id.

Rule 17Ad-22(e)(4)(i) under the Act<sup>15</sup> requires a covered clearing agency to establish, implement, maintain and enforce written policies and procedures reasonably designed to effectively identify, measure, monitor, and manage its credit exposures to participants and those exposures arising from its payment, clearing, and settlement processes by maintaining sufficient financial resources to cover its credit exposure to each participant fully with a high degree of confidence. FICC believes that the proposed changes in Item 3(a)(1) above are consistent with the requirements of Rule 17Ad-22(e)(4)(i) under the Act.<sup>16</sup> As described above, FICC believes these proposed changes to revise the formula used to calculate the VaR Charge for repo interest volatility would (i) provide FICC with more flexibility with respect to the calculation of the repo interest volatility charge and (ii) improve backtesting coverage. FICC believes that having more flexibility with respect to the calculation of the repo interest volatility charge would allow FICC to respond to rapidly changing market conditions more quickly and timely. Having the ability to respond to rapidly changing market conditions more quickly and timely would in turn help FICC better measure, monitor, and manage its credit exposures to participants and those exposures arising from its payment, clearing, and settlement processes. Moreover, as the result of the Impact Study indicates, having the proposed changes would increase the backtesting coverage ratio for the repo interest volatility charge beyond 99% and thereby help ensure that FICC maintains sufficient financial resources to cover its credit exposure to each participant fully with a high degree of confidence. Therefore, FICC believes that the proposed changes described in Item 3(a)(1) above are consistent with the requirements of Rule 17Ad-22(e)(4)(i) under the Act.<sup>17</sup>

Rule 17Ad-22(e)(6)(i) under the Act<sup>18</sup> requires a covered clearing agency to establish, implement, maintain and enforce written policies and procedures reasonably designed to cover, if the covered clearing agency provides central counterparty services, its credit exposures to its participants by establishing a risk-based margin system that, at a minimum, considers, and produces margin levels commensurate with, the risks and particular attributes of each relevant product, portfolio, and market. FICC believes that the proposed changes in Item 3(a)(1) above are consistent with the requirements of Rule 17Ad-22(e)(6)(i).<sup>19</sup>

Specifically, FICC believes the proposed new formula to allow FICC the flexibility to apply two separate repo haircut rates (one for long positions and the other for short positions) within the same risk bucket would enable FICC to be better equipped to respond to rapidly changing market conditions, particularly when the long and short repo interest positions exhibit very different risk profiles. FICC believes having this flexibility would help lead to a better risk management practice because it would enable FICC to refine its calculation of the repo interest

---

<sup>15</sup> 17 CFR 240.17Ad-22(e)(4)(i).

<sup>16</sup> Id.

<sup>17</sup> Id.

<sup>18</sup> 17 CFR 240.17Ad-22(e)(6)(i).

<sup>19</sup> Id.

volatility charge in response to fast changing market conditions. Being able to refine its calculation of the repo interest volatility charge in response to fast changing market conditions would help FICC cover its credit exposures to its participants by allowing FICC to continue to produce margin levels commensurate with the risks and particular attributes of each relevant product, portfolio, and market. Therefore, FICC believes this proposed change is consistent with Rule 17Ad-22(e)(6)(i) under the Act.<sup>20</sup>

Similarly, FICC believes that the proposed changes to replace the current detailed description of the repo haircut rate calculation for all risk buckets with a more general description, as described above, would also provide FICC with more flexibility to respond to rapidly changing market conditions more quickly and timely because FICC would be able to make adjustments to the repo haircut rate calculation without a rule filing. Having this flexibility would enable FICC to better risk manage the repo interest positions because FICC would then be able to make appropriate and timely adjustments to the repo haircut rates, as described above. Furthermore, as described above, FICC believes these proposed changes would also help counterbalance potential data availability limitation issues by enabling FICC to adjust how the repo haircut rate is calculated more quickly and timely. Being able to adjust its calculation of the repo haircut rate quickly and timely would help FICC cover its credit exposures to its participants by allowing FICC to continue to produce margin levels commensurate with the risks and particular attributes of each relevant product, portfolio, and market. Therefore, FICC believes this proposed change is consistent with Rule 17Ad-22(e)(6)(i) under the Act.<sup>21</sup>

Rule 17Ad-22(e)(6)(v) under the Act<sup>22</sup> requires a covered clearing agency to establish, implement, maintain and enforce written policies and procedures reasonably designed to cover, if the covered clearing agency provides central counterparty services, its credit exposures to its participants by establishing a risk-based margin system that, at a minimum, uses an appropriate method for measuring credit exposure that accounts for relevant product risk factors and portfolio effects across products. FICC believes that the proposed changes in Item 3(a)(1) above are consistent with the requirements of Rule 17Ad-22(e)(6)(v).<sup>23</sup>

Specifically, FICC believes the proposed new formula to allow FICC the flexibility to apply two separate repo haircut rates (one for long positions and the other for short positions) within the same risk bucket would enable FICC to be better equipped to respond to rapidly changing market conditions, particularly when the long and short repo interest positions exhibit very different risk profiles. FICC believes having this flexibility would help lead to a better risk management practice because it would enable FICC to refine its calculation of the repo interest volatility charge in response to fast changing market conditions. Being able to refine its calculation of the repo interest volatility charge in response to fast changing market conditions would help

---

<sup>20</sup> Id.

<sup>21</sup> Id.

<sup>22</sup> 17 CFR 240.17Ad-22(e)(6)(v).

<sup>23</sup> Id.

FICC cover its credit exposures to its participants by allowing FICC to continue to produce margin levels commensurate with relevant product risk factors and portfolio effects across products. Therefore, FICC believes this proposed change is consistent with Rule 17Ad-22(e)(6)(v) under the Act.<sup>24</sup>

Similarly, FICC believes that the proposed changes to replace the current detailed description of the repo haircut rate calculation for all risk buckets with a more general description, as described above, would also provide FICC with more flexibility to respond to rapidly changing market conditions more quickly and timely because FICC would be able to make adjustments to the repo haircut rate calculation without a rule filing. Having this flexibility would enable FICC to better risk manage the repo interest positions because FICC would then be able to make appropriate and timely adjustments to the repo haircut rates, as described above. Furthermore, as described above, FICC believes these proposed changes would also help counterbalance potential data availability limitation issues by enabling FICC to adjust how the repo haircut rate is calculated more quickly and timely. Being able to adjust its calculation of the repo haircut rate quickly and timely would help FICC cover its credit exposures to its participants by allowing FICC to continue to product margin levels commensurate with relevant product risk factors and portfolio effects across products. Therefore, FICC believes this proposed change is consistent with Rule 17Ad-22(e)(6)(v) under the Act.<sup>25</sup>

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

FICC believes that the proposed changes described in Item 3(a)(1) above may have an impact on competition because these changes could result in Members being assessed a higher margin than they would have been assessed using the current formula in calculation of the repo interest volatility charge. FICC believes that the proposed change could burden competition by potentially increasing these Members' operating costs. Nonetheless, FICC believes any burden on competition imposed by the proposed changes described in Item 3(a)(1) would not be significant and, regardless of whether such burden on competition could be deemed significant, would be necessary and appropriate, as permitted by Section 17A(b)(3)(I) of the Act for the reasons described in this filing and further below.<sup>26</sup>

FICC believes any burden on competition imposed by the proposed changes described in Item 3(a)(1) would not be significant. As the result of the Impact Study indicates, had the proposed changes been in place, approximately 62% of the GSD Member portfolios would have had an increase of approximately 3% in their average daily VaR Charge, and at a GSD level the increase would have been approximately 0.8% of the average daily VaR Charge.

However, even if the burden on competition imposed by the proposed changes described in Item 3(a)(1) were deemed significant, FICC believes that any such burden on competition

---

<sup>24</sup> Id.

<sup>25</sup> Id.

<sup>26</sup> 15 U.S.C. 78q-1(b)(3)(I).

would be necessary because, as described above, the proposed changes would provide FICC with more flexibility with respect to the calculation of the repo interest volatility charge and allow FICC to respond to rapidly changing market conditions more quickly and timely, particularly when the long and short repo interest positions exhibit very different risk profiles. Having more flexibility with respect to this calculation would thus help better ensure that FICC calculates and collects adequate margin from Members and thereby assure the safeguarding of securities and funds which are in the custody and control of FICC or for which it is responsible, consistent with Section 17A(b)(3)(F) of the Act.<sup>27</sup>

In addition, FICC believes the proposed changes described in Item 3(a)(1) are necessary to support FICC's compliance with Rules 17ad-22(e)(4)(i), (e)(6)(i), and (e)(6)(v) under the Act. Specifically, as described above, FICC believes these proposed changes would provide FICC with more flexibility with respect to the calculation of the repo interest volatility charge. Having more flexibility with respect to the calculation of the repo interest volatility charge would allow FICC to respond to rapidly changing market conditions more quickly and timely. Having the ability to respond to rapidly changing market conditions more quickly and timely would in turn help FICC better measure, monitor, and manage its credit exposures to participants and those exposures arising from its payment, clearing, and settlement processes, consistent with the requirements of Rules 17ad-22(e)(4)(i) under the Act.<sup>28</sup>

FICC also believes these proposed changes would enable FICC to be better equipped to respond to rapidly changing market conditions, particularly when the long and short repo interest positions exhibit very different risk profiles. FICC believes having this flexibility would help lead to a better risk management practice because it would enable FICC to refine its calculation of the repo interest volatility charge in response to fast changing market conditions. Being able to refine its calculation of the repo interest volatility charge in response to fast changing market conditions would help FICC cover its credit exposures to its participants, consistent with the requirements of Rule 17Ad-22(e)(6)(i) and (e)(6)(v) under the Act.<sup>29</sup>

FICC also believes that any burden on competition imposed by the proposed changes described in Item 3(a)(1) would be appropriate in furtherance of the Act because these proposed changes have been specifically designed to assure the safeguarding of securities and funds which are in the custody and control of FICC or for which it is responsible, as required by Section 17A(b)(3)(F) of the Act. As described above, FICC believes these proposed changes would help better ensure that FICC calculates and collects adequate margin from Member, thus enable FICC to produce margin levels more commensurate with the risks it faces as a CCP. Accordingly, FICC believes these proposed changes are appropriately designed to meet its risk management goals and regulatory obligations.

---

<sup>27</sup> 15 U.S.C. 78q-1(b)(3)(F).

<sup>28</sup> 17 CFR 240.17Ad-22(e)(4)(i).

<sup>29</sup> 17 CFR 240.17Ad-22(e)(6)(i) and (e)(6)(v).

FICC believes that the proposed changes described in Item 3(a)(1) above may also promote competition because these changes could also result in Members being assessed a lower margin than they would have been assessed using the current calculation of the repo interest volatility charge, and thereby could potentially lower operating costs for Members.<sup>30</sup>

With respect to the proposed changes described in Item 3(a)(2) above to make technical changes to the QRM Methodology Document, FICC does not believe these proposed changes would have any impact on competition because these proposed changes would only enhance the clarity of the QRM Methodology Document, which would promote an accurate and smooth functioning of the margining process at FICC and would not affect the substantive rights of Members.

## **5. Self-Regulatory Organization'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 additional 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 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-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](mailto:tradingandmarkets@sec.gov) or 202-551-5777.

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

## **6. Extension of Time Period for Commission Action**

FICC does not consent to an extension of the time period specified in Section 19(b)(2) of the Act for Commission action.

---

<sup>30</sup> The proposed changes described in Item 3(a)(1) could result in Members being assessed a lower margin than they would have been assessed using the current calculation of the repo interest volatility charge. As illustrated by the example in Item 3(a)(1) above, when using the current formula, the repo interest volatility charge for the portfolio in the example is \$400, but when using the proposed new formula, the repo interest volatility charge for the portfolio is reduced to \$200 instead.

**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**

Not applicable.

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

Not applicable.

**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 3a – Excerpt of GSD Initial Market Risk Margin Models: Model Validation Report, July 2021 *Omitted and filed separately with the Commission. Confidential treatment of this Exhibit 3a pursuant to 17 CFR 240.24b-2 being requested.*

Exhibit 3b – Excerpt of DTCC Model Validation Report/GSD Initial Market Risk Margin Models, July 2020 *Omitted and filed separately with the Commission. Confidential treatment of this Exhibit 3b pursuant to 17 CFR 240.24b-2 being requested.*

Exhibit 3c – Summary of Impact Study for the period of January 2018 to February 2022. *Omitted and filed separately with the Commission. Confidential treatment of this Exhibit 3c pursuant to 17 CFR 240.24b-2 being requested.*

Exhibit 4 – Not applicable.



Exhibit 5 – Proposed changes to the QRM Methodology Document. ***Omitted and filed separately with the Commission. Confidential treatment of this Exhibit 5 pursuant to 17 CFR 240.24b-2 being requested.***

**EXHIBIT 1A**

SECURITIES AND EXCHANGE COMMISSION  
(Release No. 34-[\_\_\_\_]; File No. SR-FICC-2022-005)

[DATE]

Self-Regulatory Organizations; Fixed Income Clearing Corporation; Notice of Filing of a Proposed Rule Change to Revise the Formula Used to Calculate the VaR Charge for Repo Interest Volatility

Pursuant to Section 19(b)(1) of the Securities Exchange Act of 1934 (“Act”)<sup>1</sup> and Rule 19b-4 thereunder,<sup>2</sup> notice is hereby given that on June \_\_, 2022, 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. 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

FICC is proposing to amend the GSD Methodology Document – GSD Initial Market Risk Margin Model (“QRM Methodology Document”)<sup>3</sup> in order to revise the formula used to calculate the VaR Charge (as defined below) for repo interest volatility and make conforming changes to the description of this formula. In addition, FICC is

---

<sup>1</sup> 15 U.S.C. 78s(b)(1).

<sup>2</sup> 17 CFR 240.19b-4.

<sup>3</sup> The GSD QRM Methodology Document was filed as a confidential exhibit in the rule filing and advance notice for GSD sensitivity VaR. See Securities Exchange Act Release Nos. 83362 (June 1, 2018), 83 FR 26514 (June 7, 2018) (SR-FICC-2018-001) and 83223 (May 11, 2018), 83 FR 23020 (May 17, 2018) (SR-FICC-2018-801).

proposing to amend the QRM Methodology Document to make certain technical changes, as described in greater detail below.<sup>4</sup>

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

FICC is proposing to amend the QRM Methodology Document to revise the formula used to calculate the VaR Charge for repo interest volatility and make conforming changes to the description of this formula. In addition, FICC is proposing to amend the QRM Methodology Document to make certain technical changes.

(1) Revise the Formula Used to Calculate the VaR Charge for Repo Interest Volatility and Make Conforming Changes

FICC, through GSD, serves as a central counterparty ("CCP") and provider of clearance and settlement services for the U.S. government securities market. A key tool that FICC uses to manage its credit exposures to its Members is the daily collection of margin from each Member. The aggregated amount of all Members' margin constitutes

---

<sup>4</sup> Capitalized terms used herein and not defined shall have the meaning assigned to such terms in the FICC Government Securities Division ("GSD") Rulebook ("Rules"), available at <http://www.dtcc.com/legal/rules-and-procedures.aspx>.

the Clearing Fund, which FICC would be able to access should a defaulted Member's own margin be insufficient to satisfy losses to FICC caused by the liquidation of that Member's portfolio. Each Member's margin consists of a number of applicable components, including a value-at-risk ("VaR") charge ("VaR Charge") designed to capture the potential market price risk associated with the securities in a Member's portfolio. The VaR Charge is typically the largest component of a Member's margin requirement. The VaR Charge is designed to cover FICC's projected liquidation losses with respect to a defaulted Member's portfolio at a 99% confidence level.

The VaR Charge includes a component that addresses repo interest volatility, which the QRM Methodology Document refers to as the "repo interest volatility charge." Interest on a repurchase ("repo") transaction, hereinafter referred to as "repo interest," is the difference between the repurchase settlement amount and the start amount paid on the repo inception date. In its role as a CCP in clearing a repo transaction, FICC guarantees that the borrowers receive their repo collateral back at the close of the repo transaction while lenders receive the start amount paid on the repo inception date plus repo interest. The market value of interest payments for the remaining life of the repo trades are subject to the risk of movements of the market repo interest rates. Since FICC guarantees the repo interest payment to the lenders, this risk needs to be mitigated. The repo interest volatility charge is designed to mitigate such risk, i.e., the risk arising out of fluctuations in market repo interest rates during the margin period of risk ("MPOR"). MPOR is currently set at 3 days for FICC. It represents the duration of time when a CCP is exposed to market risk post-member default, starting from the time of the last successful margin collection to the time the market

risk exposure is effectively mitigated. The repo interest volatility charge is a small component of the total GSD margin (currently about 3% at CCP level).

The QRM Methodology Document contains the formula for the calculation of the repo interest volatility charge and describes the components and calculation thereof.

Currently, the repo interest volatility charge is assessed through application of a haircut schedule with a single haircut rate applied to each risk bucket after netting short and long repo interest positions within the relevant risk bucket. Specifically, under the current formula, the repo interest positions for a given Member portfolio are put into different risk buckets based on (a) whether the underlying repo trade is a generic repo trade or a special repo trade and (b) the time to settlement of the underlying repo trade. The total net amount of each risk bucket is calculated as the sum of the product of repo start amount and the time to settlement of each repo interest position in that risk bucket. If the total net amount is positive (long), then the long repo haircut rate for that specific risk bucket is applied to the total net amount for that specific risk bucket to arrive at the repo interest volatility charge for that specific risk bucket. If the total net amount is negative (short), then the short repo haircut rate for that specific risk bucket is applied to the absolute value of the total net amount to arrive at the repo interest volatility charge for that specific risk bucket. The total repo interest volatility charge for the portfolio is the sum of the repo interest volatility charges of all of the risk buckets in the portfolio. As such, the current formula reflects a repo interest rate index driven approach where a single repo haircut rate is applied to the absolute value of the total net amount of each risk bucket of repo interest positions.<sup>5</sup>

---

<sup>5</sup> FICC has developed its repo interest rate indices using FICC delivery-versus-payment repo transactions.

In order to provide FICC with more flexibility with respect to the calculation of the repo interest volatility charge so FICC can respond to rapidly changing market conditions more quickly and timely, FICC is proposing revisions to the current formula. The proposed new formula is similar to the current formula in certain respects. For example, the proposed new formula would continue to be repo interest rate index driven and would use a similar mathematical calculation as the current formula. In addition, under the proposed new formula, the repo interest positions for a given Member portfolio would continue to be placed into risk buckets based on (a) whether the underlying repo trade is a generic repo trade or a special repo trade and (b) the time to settlement of the underlying repo trade. However, unlike the current formula, more than one repo haircut rate could apply to each risk bucket. This is because the repo haircut rate that would be applied would no longer be based on whether the total net amount for a specific risk bucket is long or short. Instead, as proposed, the specific repo haircut rate to be applied would be based on whether the individual repo interest position in a specific risk bucket is either long or short. Specifically, as proposed, FICC would apply a long repo haircut rate to all the long positions and a short repo haircut rate to all the short positions in each risk bucket. The long positions and the short positions can offset each other within the same risk bucket but cannot offset each other across different risk buckets. As proposed, the repo interest volatility charge for a specific risk bucket would be the absolute value of the sum of the product of repo start amount, time to settlement, and repo haircut rate of the individual repo interest positions in the risk bucket. However, as is the case with the current formula, the total repo interest volatility charge for the portfolio would still be the sum of the repo interest volatility charges of all of the risk buckets in the portfolio. Doing so would provide FICC the flexibility to use two

haircuts for each risk bucket, one for long positions and the other for short positions,<sup>6</sup> thus allowing FICC to respond to rapidly changing market conditions more quickly and timely, particularly when the long and short repo interest positions exhibit very different risk profiles. In turn, the proposed changes would help better ensure that FICC calculates and collects adequate margin from Members and lead to a better risk management practice.

Based on FICC's 2020 and 2021 annual model validation reports, the rolling 12-month backtest coverage on the sub-portfolios of repo interest only positions had been below the 99 percent coverage target from June 2019 to September 2020. In order to improve the backtesting coverage, FICC is also proposing to add a repo bid/ask spread to each repo haircut rate (one for long positions and one for short positions) within the same risk bucket. The repo bid/ask spread would be calculated based on the historical percentile movements of the internally constructed repo interest rate indices. FICC is proposing to add the repo bid/ask spread to each repo haircut rate to account for the difference observed in the repo market between the highest rate a repo participant is willing to pay to borrow money in a repo trade and the lowest rate a repo participant is willing to accept to lend money in a repo trade. FICC believes adding the repo bid/ask spread to each of the repo haircut rates would improve backtesting coverage, particularly with respect to sub-portfolios of repo interest only positions.

For example, assuming a portfolio contains two repo interest positions, both with half a year to settlement, one position has a repo start amount of +\$1 million, and the other

---

<sup>6</sup> As an initial matter, FICC would take a streamlined and prudent approach by setting the repo haircut rates for long positions and short positions to be the same rate, i.e., the larger of the two rates, so that the long and short positions in a specific risk bucket would be subject to the same repo haircut rate.

has a repo start amount of -\$0.8 million. In this example, the two repo interest positions have the same time to settlement, so they would fall into the same risk bucket. Let's further assume that for that specific risk bucket, the long repo haircut rate is 40 bps and the short repo haircut rate is 45 bps.

Under the current formula, we first calculate the total net amount of the risk bucket by adding the product of repo start amount and the time to settlement of the two repo interest positions, i.e.,  $(+\$1 \text{ million} * 0.5 \text{ year}) + (-\$0.8 \text{ million} * 0.5 \text{ year})$ . As calculated, the total net amount is  $+\$100,000$ . Given that the total net amount is positive (long), we apply the long repo haircut rate of 40 bps, i.e.,  $\$100,000 * 40 \text{ bps}$ , and calculate the repo interest volatility charge for the portfolio as  $\$400$ .

Under the proposed new formula, we would calculate the individual repo interest positions and apply the applicable repo haircut rate at the position level. Specifically, we would first calculate each repo interest position by multiplying the repo start amount and the time to settlement, i.e.,  $(+\$1 \text{ million} * 0.5 \text{ year}) = +\$500,000$ , and then apply the applicable repo haircut rate, i.e., because  $+\$500,000$  is a long position, we would apply the long repo haircut rate of 40 bps and calculate the amount for that long position as  $\$2,000$ . For the second repo interest position, we would first multiply the repo start amount  $(-\$0.8 \text{ million})$  and the time to settlement  $(0.5 \text{ year})$  and get  $-\$400,000$ . Given it is a short position, we would apply the short repo haircut rate of 45 bps and calculate the amount for that short position as  $-\$1,800$ . For the repo interest volatility charge for the portfolio, we would take



the absolute value of the sum of the two amounts ( $\$2,000 + (-\$1,800)$ ) and get \$200 as the repo interest volatility charge for the portfolio using the proposed new formula.<sup>7,8</sup>

The QRM Methodology Document also contains a detailed description of the repo haircut rate calculation for all risk buckets. FICC is proposing to eliminate this detailed description from the QRM Methodology Document and replace it with a more general

---

<sup>7</sup> As an initial matter, FICC would set the repo haircut rates for long positions and short positions to be the same rate, i.e., the larger of the two rates, so that the long and short positions in a specific risk bucket would be subject to the same repo haircut rate. Supra note 6. Using the new proposed formula under this approach, the repo interest volatility charge for the portfolio would be \$450. Instead of using 40 bps for long positions and 45 bps for short positions, we would apply 45 bps (the larger of the two rates) to both the long and short positions in the risk bucket, i.e., ( $+\$500,000 * 45$  bps) and ( $-\$400,000 * 45$  bps), and get \$2,250 and -\$1,800 as the haircut amounts, respectively. The repo interest volatility charge for the portfolio would then be calculated by adding \$2,250 and -\$1,800, i.e., \$450.

<sup>8</sup> Under the proposed new formula, the repo interest volatility charge would always be a positive number because the calculation thereof is based on the absolute value of the sum of the relevant amounts.

For example, assuming a portfolio contains two repo interest positions, both with half a year to settlement, one position has a repo start amount of -\$1 million, and the other has a repo start amount of +\$0.8 million. In this example, the two repo interest positions have the same time to settlement, so they would fall into the same risk bucket. Let's further assume that for that specific risk bucket, the long repo haircut rate is 45 bps and the short repo haircut rate is 40 bps. Under the proposed new formula, we would first calculate each repo interest position by multiplying the repo start amount and the time to settlement, i.e., ( $-\$1 \text{ million} * 0.5 \text{ year}$ ) =  $-\$500,000$ , and then apply the applicable repo haircut rate, i.e., because  $-\$500,000$  is a short position, we would apply the short repo haircut rate of 40 bps and calculate the amount for that short position as  $-\$2,000$ . For the second repo interest position, we would first multiply the repo start amount ( $+\$0.8 \text{ million}$ ) and the time to settlement (0.5 year) and get  $+\$400,000$ . Given it is a long position, we would apply the long repo haircut rate of 45 bps and calculate the amount for that long position as  $+\$1,800$ . For the repo interest volatility charge for the portfolio, we would take the absolute value of the sum of the two amounts, i.e.,  $\text{abs}(-\$2,000 + (\$1,800))$  and get \$200 as the repo interest volatility charge for the portfolio using the proposed new formula.

description of the repo haircut rate calculation. FICC believes that having a more general description would provide FICC with more flexibility to respond to rapidly changing market conditions more quickly and timely by enabling FICC to adjust how the repo haircut rate is calculated without undergoing a rule filing process.<sup>9</sup> By being able to quickly make adjustments to the calculation of the repo haircut rate, FICC would be able to better risk manage the repo interest positions. Specifically, FICC believes this proposed change would enable FICC to make appropriate and timely adjustments to the repo haircut rates based on an evaluation of a number of factors, including, but not limited to, repo interest rate volatility outlook and backtesting coverage results. Furthermore, there are certain known data availability limitations with respect to the current repo interest rate index. That is, the current repo interest rate index is missing data for a volatile period, so repo haircut rates that have been calibrated based on the current repo interest rate index may not be sufficient if the repo market were to experience heightened volatility. FICC believes the proposed changes would therefore also help counterbalance potential data availability limitation issues by enabling FICC to adjust how the repo haircut rate is calculated more quickly and timely and thereby provide FICC with the flexibility to respond to rapidly changing market conditions more quickly and effectively.

FICC would instead describe the detailed calculations of the repo haircut rates in an internal standalone document. Nonetheless, any future changes to the repo haircut rate calculations would continue to follow DTCC's internal model governance procedure as

---

<sup>9</sup> Pursuant to Section 806(e)(1) of Title VIII of the Dodd-Frank Wall Street Reform and Consumer Protection Act and Rule 19b-4(n)(1)(i) under the Act, if a change materially affects the nature or level of risks presented by FICC, then FICC is required to file an advance notice filing. 12 U.S.C. 5465(e)(1) and 17 CFR 240.19b-4(n)(1)(i).

described in the Clearing Agency Model Risk Management Framework.<sup>10</sup> In addition, the repo haircut rates would continue to be tracked in the monthly model parameter report.

Accordingly, FICC believes that revising the formula for the calculation of the repo interest volatility charge as described above and replacing the current specific description with a more general description in the QRM Methodology Document would collectively provide FICC with more flexibility and allow FICC to respond to rapidly changing market conditions more quickly by enabling FICC to adjust how the repo haircut rate is calculated without a rule filing. In addition, FICC believes that the proposed changes would enable FICC to better address the backtest coverage issue and thereby risk manage the repo interest positions more effectively.

#### Impact Study

FICC conducted an impact study for the period of January 2018 to February 2022 (“Impact Study”). The result of the Impact Study indicates that, at the CCP level, if the proposed changes had been in place, the backtesting coverage ratio for the repo interest volatility charge would have increased from approximately 98.7% to 99.2%.

---

<sup>10</sup> The Clearing Agency Model Risk Management Framework (“Framework”) sets forth the model risk management practices that FICC and its affiliates The Depository Trust Company (“DTC”) and National Securities Clearing Corporation (“NSCC,” and together with FICC and DTC, 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 Exchange Act Release Nos. 81485 (August 25, 2017), 82 FR 41433 (August 31, 2017) (File Nos. SR-DTC-2017-008; SR-FICC-2017-014; SR-NSCC-2017-008), 88911 (May 20, 2020), 85 FR 31828 (May 27, 2020) (File Nos. SR-DTC-2020-008; SR-FICC-2020-004; SR-NSCC-2020-008), 92380 (July 13, 2021), 86 FR 38140 (July 19, 2021) (File No. SR-FICC-2021-006), 92381 (July 13, 2021), 86 FR 38163 (July 19, 2021) (File No. SR-NSCC-2021-008) and 92379 (July 13, 2021), 86 FR 38143 (July 19, 2021) (File No. SR-DTC-2021-003).

Specifically, the Impact Study shows that had the proposed changes been in place from January 2018 to February 2022, it would have affected 90 out of 145 (approximately 62%) portfolios of GSD Members per day on average, and the average daily margin increase of the VaR Charge for these Member portfolios would have been approximately \$0.7 million (representing approximately 3% of their average daily VaR Charge). For GSD, the proposed changes would have resulted in an average daily VaR Charge increase of approximately \$86 million (representing approximately 0.8% of the average daily VaR Charge).

(2) Technical Changes

FICC is also proposing to make certain technical changes to the QRM Methodology Document to enhance clarity.

FICC proposes to revise the term “GCF Repo” to “repo” in “2.1 Market risks associated with products cleared by GSD” and “3.2.4 Repo Interest Volatility Charge” sections of the QRM Methodology Document for clarity.

In “2.5.4. Repo Interest Volatility Charge” and “3.2.4 Repo Interest Volatility Charge” sections of the QRM Methodology Document, FICC proposes to change “inception date” to “repo inception date” and “above” to “in the above sections” to enhance clarity. FICC also proposes to clarify and update certain descriptions in the “2.5.4. Repo Interest Volatility Charge” and “3.2.4 Repo Interest Volatility Charge” sections. For example, FICC is proposing to clarify the description of the risk that the repo interest volatility charge is designed to address and the repo trades that it applies to. In addition, FICC is proposing to update the paragraphs in “2.5.4. Repo Interest Volatility Charge” section describing the use of risk buckets to reflect the current practice.

Furthermore, FICC proposes to change “repurchase price” to “repurchase settlement amount” and “original sale price” to “start amount paid on the repo inception date” in “3.2.4 Repo Interest Volatility Charge” section for clarity. To enhance the clarity of the QRM Methodology Document, FICC also proposes to remove a formula from “3.2.4 Repo Interest Volatility Charge” section of the QRM Methodology Document that is no longer used but had been included for historical reference.

In addition, FICC is proposing to clarify the description of the repo interest curve in “3.2.4 Repo Interest Volatility Charge” section of the QRM Methodology Document, including, among other things, the description the categories that a collateral security in a repo trade can be designated as and how those categories are treated in the repo interest volatility charge calculation, as well as how the repo rate indices are constructed. FICC also proposes to add that any changes or adjustments to the repo haircut rate calculation would need to go through DTCC’s model governance process.

Lastly, FICC is proposing certain grammar-related technical changes in “2.1 Market risks associated with products cleared by GSD” and “3.2.4 Repo Interest Volatility Charge” sections of the QRM Methodology Document.

#### *Implementation Timeframe*

Subject to approval by the Commission, FICC would implement the proposed rule changes approximately within 30 days following such approval and would announce the effective date of the proposed change by an Important Notice posted to its website.

2. Statutory Basis

FICC believes this proposal is consistent with the requirements of the Act, and the rules and regulations thereunder applicable to a registered clearing agency. Specifically, FICC believes that the proposed changes to the Rules and the QRM Methodology Document described above are consistent with Section 17A(b)(3)(F) of the Act, for the reasons described below.<sup>11</sup>

Section 17A(b)(3)(F) of the Act requires, in part, 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.<sup>12</sup>

FICC believes that the proposed changes to the QRM Methodology Document described in Item II.(A)1(1) above to revise the formula used to calculate the VaR Charge for repo interest volatility and make conforming changes to the description of this formula are designed to assure the safeguarding of securities and funds which are in the custody or control of FICC or for which it is responsible, consistent with Section 17A(b)(3)(F) of the Act.<sup>13</sup> As described above, FICC believes these proposed changes would provide FICC with more flexibility with respect to the calculation of the repo interest volatility charge and thus allow FICC to respond to rapidly changing market conditions more quickly and timely, particularly when the long and short repo interest positions exhibit very different risk profiles. FICC believes that having more flexibility

---

<sup>11</sup> 15 U.S.C. 78q-1(b)(3)(F).

<sup>12</sup> Id.

<sup>13</sup> Id.

with respect to this calculation would help better ensure that FICC calculates and collects adequate margin from Members and thereby would assure the safeguarding of securities and funds which are in the custody and control of FICC or for which it is responsible, consistent with Section 17A(b)(3)(F) of the Act.<sup>14</sup>

FICC believes that the proposed technical changes described in Item II.(A)1(2) above would enhance the clarity of the QRM Methodology Document for FICC. As the QRM Methodology Document is used by FICC Risk Management personnel regarding the calculation of margin requirements, it is therefore important that FICC Risk Management has a clear description of the calculation of the margin methodology. Having a clear description of the calculation of the margin methodology would promote an accurate and smooth functioning of the margining process. Having an accurate and smooth functioning of the margining process would help better ensure that FICC calculates and collects adequate margin from Members and thereby assure the safeguarding of securities and funds which are in the custody and control of FICC or for which it is responsible. As such, FICC believes that enhancing the clarity of the QRM Methodology Document would assure the safeguarding of securities and funds which are in the custody or control of FICC or for which it is responsible, consistent with Section 17A(b)(3)(F) of the Act.<sup>15</sup>

---

<sup>14</sup> Id.

<sup>15</sup> Id.

Rule 17Ad-22(e)(4)(i) under the Act<sup>16</sup> requires a covered clearing agency to establish, implement, maintain and enforce written policies and procedures reasonably designed to effectively identify, measure, monitor, and manage its credit exposures to participants and those exposures arising from its payment, clearing, and settlement processes by maintaining sufficient financial resources to cover its credit exposure to each participant fully with a high degree of confidence. FICC believes that the proposed changes in Item II.(A)1(1) above are consistent with the requirements of Rule 17Ad-22(e)(4)(i) under the Act.<sup>17</sup> As described above, FICC believes these proposed changes to revise the formula used to calculate the VaR Charge for repo interest volatility would (i) provide FICC with more flexibility with respect to the calculation of the repo interest volatility charge and (ii) improve backtesting coverage. FICC believes that having more flexibility with respect to the calculation of the repo interest volatility charge would allow FICC to respond to rapidly changing market conditions more quickly and timely. Having the ability to respond to rapidly changing market conditions more quickly and timely would in turn help FICC better measure, monitor, and manage its credit exposures to participants and those exposures arising from its payment, clearing, and settlement processes. Moreover, as the result of the Impact Study indicates, having the proposed changes would increase the backtesting coverage ratio for the repo interest volatility charge beyond 99% and thereby help ensure that FICC maintains sufficient financial resources to cover its credit exposure to each participant fully with a high degree of confidence. Therefore, FICC believes that the proposed changes described in Item

---

<sup>16</sup> 17 CFR 240.17Ad-22(e)(4)(i).

<sup>17</sup> Id.



II.(A)1(1) above are consistent with the requirements of Rule 17Ad-22(e)(4)(i) under the Act.<sup>18</sup>

Rule 17Ad-22(e)(6)(i) under the Act<sup>19</sup> requires a covered clearing agency to establish, implement, maintain and enforce written policies and procedures reasonably designed to cover, if the covered clearing agency provides central counterparty services, its credit exposures to its participants by establishing a risk-based margin system that, at a minimum, considers, and produces margin levels commensurate with, the risks and particular attributes of each relevant product, portfolio, and market. FICC believes that the proposed changes in Item II.(A)1(1) above are consistent with the requirements of Rule 17Ad-22(e)(6)(i).<sup>20</sup>

Specifically, FICC believes the proposed new formula to allow FICC the flexibility to apply two separate repo haircut rates (one for long positions and the other for short positions) within the same risk bucket would enable FICC to be better equipped to respond to rapidly changing market conditions, particularly when the long and short repo interest positions exhibit very different risk profiles. FICC believes having this flexibility would help lead to a better risk management practice because it would enable FICC to refine its calculation of the repo interest volatility charge in response to fast changing market conditions. Being able to refine its calculation of the repo interest volatility charge in response to fast changing market conditions would help FICC cover its credit exposures to its participants by allowing FICC to continue to produce margin levels commensurate with

---

<sup>18</sup> Id.

<sup>19</sup> 17 CFR 240.17Ad-22(e)(6)(i).

<sup>20</sup> Id.

the risks and particular attributes of each relevant product, portfolio, and market. Therefore, FICC believes this proposed change is consistent with Rule 17Ad-22(e)(6)(i) under the Act.<sup>21</sup>

Similarly, FICC believes that the proposed changes to replace the current detailed description of the repo haircut rate calculation for all risk buckets with a more general description, as described above, would also provide FICC with more flexibility to respond to rapidly changing market conditions more quickly and timely because FICC would be able to make adjustments to the repo haircut rate calculation without a rule filing. Having this flexibility would enable FICC to better risk manage the repo interest positions because FICC would then be able to make appropriate and timely adjustments to the repo haircut rates, as described above. Furthermore, as described above, FICC believes these proposed changes would also help counterbalance potential data availability limitation issues by enabling FICC to adjust how the repo haircut rate is calculated more quickly and timely. Being able to adjust its calculation of the repo haircut rate quickly and timely would help FICC cover its credit exposures to its participants by allowing FICC to continue to produce margin levels commensurate with the risks and particular attributes of each relevant product, portfolio, and market. Therefore, FICC believes this proposed change is consistent with Rule 17Ad-22(e)(6)(i) under the Act.<sup>22</sup>

Rule 17Ad-22(e)(6)(v) under the Act<sup>23</sup> requires a covered clearing agency to establish, implement, maintain and enforce written policies and procedures reasonably

---

<sup>21</sup> Id.

<sup>22</sup> Id.

<sup>23</sup> 17 CFR 240.17Ad-22(e)(6)(v).

designed to cover, if the covered clearing agency provides central counterparty services, its credit exposures to its participants by establishing a risk-based margin system that, at a minimum, uses an appropriate method for measuring credit exposure that accounts for relevant product risk factors and portfolio effects across products. FICC believes that the proposed changes in Item II.(A)1(1) above are consistent with the requirements of Rule 17Ad-22(e)(6)(v).<sup>24</sup>

Specifically, FICC believes the proposed new formula to allow FICC the flexibility to apply two separate repo haircut rates (one for long positions and the other for short positions) within the same risk bucket would enable FICC to be better equipped to respond to rapidly changing market conditions, particularly when the long and short repo interest positions exhibit very different risk profiles. FICC believes having this flexibility would help lead to a better risk management practice because it would enable FICC to refine its calculation of the repo interest volatility charge in response to fast changing market conditions. Being able to refine its calculation of the repo interest volatility charge in response to fast changing market conditions would help FICC cover its credit exposures to its participants by allowing FICC to continue to produce margin levels commensurate with relevant product risk factors and portfolio effects across products. Therefore, FICC believes this proposed change is consistent with Rule 17Ad-22(e)(6)(v) under the Act.<sup>25</sup>

Similarly, FICC believes that the proposed changes to replace the current detailed description of the repo haircut rate calculation for all risk buckets with a more general

---

<sup>24</sup> Id.

<sup>25</sup> Id.

description, as described above, would also provide FICC with more flexibility to respond to rapidly changing market conditions more quickly and timely because FICC would be able to make adjustments to the repo haircut rate calculation without a rule filing. Having this flexibility would enable FICC to better risk manage the repo interest positions because FICC would then be able to make appropriate and timely adjustments to the repo haircut rates, as described above. Furthermore, as described above, FICC believes these proposed changes would also help counterbalance potential data availability limitation issues by enabling FICC to adjust how the repo haircut rate is calculated more quickly and timely. Being able to adjust its calculation of the repo haircut rate quickly and timely would help FICC cover its credit exposures to its participants by allowing FICC to continue to product margin levels commensurate with relevant product risk factors and portfolio effects across products. Therefore, FICC believes this proposed change is consistent with Rule 17Ad-22(e)(6)(v) under the Act.<sup>26</sup>

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

FICC believes that the proposed changes described in Item II.(A)1(1) above may have an impact on competition because these changes could result in Members being assessed a higher margin than they would have been assessed using the current formula in calculation of the repo interest volatility charge. FICC believes that the proposed change could burden competition by potentially increasing these Members' operating costs. Nonetheless, FICC believes any burden on competition imposed by the proposed changes described in Item II.(A)1(1) would not be significant and, regardless of whether such burden on competition could be deemed significant, would be necessary and appropriate,

---

<sup>26</sup> Id.

as permitted by Section 17A(b)(3)(I) of the Act for the reasons described in this filing and further below.<sup>27</sup>

FICC believes any burden on competition imposed by the proposed changes described in Item II.(A)1(1) would not be significant. As the result of the Impact Study indicates, had the proposed changes been in place, approximately 62% of the GSD Member portfolios would have had an increase of approximately 3% in their average daily VaR Charge, and at a GSD level the increase would have been approximately 0.8% of the average daily VaR Charge.

However, even if the burden on competition imposed by the proposed changes described in Item II.(A)1(1) were deemed significant, FICC believes that any such burden on competition would be necessary because, as described above, the proposed changes would provide FICC with more flexibility with respect to the calculation of the repo interest volatility charge and allow FICC to respond to rapidly changing market conditions more quickly and timely, particularly when the long and short repo interest positions exhibit very different risk profiles. Having more flexibility with respect to this calculation would thus help better ensure that FICC calculates and collects adequate margin from Members and thereby assure the safeguarding of securities and funds which are in the custody and control of FICC or for which it is responsible, consistent with Section 17A(b)(3)(F) of the Act.<sup>28</sup>

In addition, FICC believes the proposed changes described in Item II.(A)1(1) are necessary to support FICC's compliance with Rules 17ad-22(e)(4)(i), (e)(6)(i), and (e)(6)(v) under the Act. Specifically, as described above, FICC believes these proposed

---

<sup>27</sup> 15 U.S.C. 78q-1(b)(3)(I).

<sup>28</sup> 15 U.S.C. 78q-1(b)(3)(F)

changes would provide FICC with more flexibility with respect to the calculation of the repo interest volatility charge. Having more flexibility with respect to the calculation of the repo interest volatility charge would allow FICC to respond to rapidly changing market conditions more quickly and timely. Having the ability to respond to rapidly changing market conditions more quickly and timely would in turn help FICC better measure, monitor, and manage its credit exposures to participants and those exposures arising from its payment, clearing, and settlement processes, consistent with the requirements of Rules 17ad-22(e)(4)(i) under the Act.<sup>29</sup>

FICC also believes these proposed changes would enable FICC to be better equipped to respond to rapidly changing market conditions, particularly when the long and short repo interest positions exhibit very different risk profiles. FICC believes having this flexibility would help lead to a better risk management practice because it would enable FICC to refine its calculation of the repo interest volatility charge in response to fast changing market conditions. Being able to refine its calculation of the repo interest volatility charge in response to fast changing market conditions would help FICC cover its credit exposures to its participants, consistent with the requirements of Rule 17Ad-22(e)(6)(i) and (e)(6)(v) under the Act.<sup>30</sup>

FICC also believes that any burden on competition imposed by the proposed changes described in Item II.(A)1(1) would be appropriate in furtherance of the Act because these proposed changes have been specifically designed to assure the safeguarding of securities and funds which are in the custody and control of FICC or for

---

<sup>29</sup> 17 CFR 240.17Ad-22(e)(4)(i).

<sup>30</sup> 17 CFR 240.17Ad-22(e)(6)(i) and (e)(6)(v).

which it is responsible, as required by Section 17A(b)(3)(F) of the Act. As described above, FICC believes these proposed changes would help better ensure that FICC calculates and collects adequate margin from Member, thus enable FICC to produce margin levels more commensurate with the risks it faces as a CCP. Accordingly, FICC believes these proposed changes are appropriately designed to meet its risk management goals and regulatory obligations.

FICC believes that the proposed changes described in Item II.(A)1(1) above may also promote competition because these changes could also result in Members being assessed a lower margin than they would have been assessed using the current calculation of the repo interest volatility charge, and thereby could potentially lower operating costs for Members.<sup>31</sup>

With respect to the proposed changes described in Item II.(A)1(2) above to make technical changes to the QRM Methodology Document, FICC does not believe these proposed changes would have any impact on competition because these proposed changes would only enhance the clarity of the QRM Methodology Document, which would promote an accurate and smooth functioning of the margining process at FICC and would not affect the substantive rights of Members.

---

<sup>31</sup> The proposed changes described in Item II.(A)1(1) could result in Members being assessed a lower margin than they would have been assessed using the current calculation of the repo interest volatility charge. As illustrated by the example in Item II.(A)1(1) above, when using the current formula, the repo interest volatility charge for the portfolio in the example is \$400, but when using the proposed new formula, the repo interest volatility charge for the portfolio is reduced to \$200 instead.

(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 additional 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 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-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](mailto:tradingandmarkets@sec.gov) or 202-551-5777.

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

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](mailto:rule-comments@sec.gov). Please include File Number SR-FICC-2022-005 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-2022-005. 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-2022-005 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.<sup>32</sup>

Secretary

---

<sup>32</sup> 17 CFR 200.30-3(a)(12).



**GSD Initial Market Risk Margin Models**

**Model Validation Report – July 2021**

**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**



**DTCC Model Validation Report**  
**GSD Initial Market Risk Margin Models – July 2020**



**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**

**Summary of Impact Study (January 2018 to February 2022)**

**DTCC**

**Methodology Document**

**GSD Initial Market Risk Margin Model**

**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**