



FIXED INCOME CLEARING CORPORATION

AND

NATIONAL SECURITIES CLEARING CORPORATION

PUBLIC QUANTITATIVE DISCLOSURES FOR CENTRAL COUNTERPARTIES

Q2 2023

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EXECUTIVE SUMMARY

In February 2015, CPMI-IOSCO issued its final report on Quantitative Disclosure Standards for Central Counterparties (“CCPs”), which provides specific quantitative disclosure requirements for CCPs relative to a number of the PFMI principles. These disclosures are intended to complement the narrative disclosures included in the CPMI-IOSCO Disclosure Framework*. This document contains the quantitative disclosures for the two divisions of the Fixed Income Clearing Corporation (“FICC”) — the Government Securities Division (“GSD”) and Mortgage-Backed Securities Division (“MBSD”) — and the National Securities Clearing Corporation (“NSCC”). FICC and NSCC are wholly owned subsidiaries of The Depository Trust & Clearing Corporation (“DTCC”).

The attached disclosures include, in addition to those required by CPMI-IOSCO, some supplemental disclosures as proposed by the Payments Risk Committee’s Recommendations for Supporting Clearing Member Due Diligence of Central Counterparties (Feb 2013).

The information provided in this disclosure is reported as of the dates specified. For further information, please contact **CPMI-IOSCO_Quant@dtcc.com**.

* The Disclosure Frameworks for FICC and NSCC can be found at **www.dtcc.com**

Q2 2023 SUPPLEMENTAL EXPLANATORY NOTE

Management Note

The U.S. equity markets rose during the second quarter of 2023, with the S&P 500 index increasing by 8.7% in the quarter, as the bulk of the gains observed in June was driven by favorable inflation data and a pause to interest rate hikes by the Federal Reserve.

The yields on 10-year U.S. treasuries during the second quarter of 2023 peaked at 3.85% following US debt ceiling crisis and strong employment numbers. The 2-year and 10-year U.S. Treasury curve remained inverted since July 5th, 2022, with the negative spread between the two, exceeding 1% in late June 2023.

GSD, MBSD, and NSCC did not experience a default event nor did any Member fail to satisfy payment obligations in Q2 2023.

Clearing Fund Backtesting Results

At FICC and NSCC, backtesting is conducted to measure the sufficiency of the overall Clearing Fund coverage. More specifically, the backtests compare the Clearing Fund requirements with actual price changes in a portfolio. The portfolio values are calculated by using the actual positions in a Member's portfolio and the observed security price changes over the simulated liquidation period of three days. The results are aggregated into the CCP-level backtesting coverage data that is provided in this disclosure. The backtesting methodology assesses the adequacy of a 3-day liquidation period assumption for a simulated Member default, and the FICC and NSCC VaR models are currently calibrated at a minimum of 99% coverage.

A deficiency is identified when the simulated backtesting (default liquidation) losses are greater than the margin or clearing fund resource collected from a member. We conduct simulated backtests for every portfolio daily, calculate the amount of each deficiency and calculate the ratio to determine coverage (99% target for rolling twelve months).

FICC-Government Securities Division (GSD)

At the end of the second quarter of 2023, GSD's 12-month backtesting coverage level was 99.1%. The 1-month coverage ratio at GSD was 99.96% for April, 99.9% for May, and 99.9% for June. The 12-month backtesting coverage improved to above the 99% target over the 12-month rolling period ending in June as backtesting deficiencies from June 2022 rolled off the lookback period. The largest deficiency for the quarter totaled \$5.5MM, which was observed on 06/28/2023. The median backtesting deficiency for the quarter was \$1.8MM.

FICC-Mortgage-Backed Securities Division (MBSD)

At the end of the second quarter of 2023, MBSD's 12-month backtesting coverage level was 98.9%. The 1-month coverage ratio at MBSD was 99.9% for April, 100% for May, and 100% for June. The 12-month backtesting coverage remained below 99% primarily due to backtesting deficiencies from November 2022. There was a single deficiency for the quarter for \$150K, which was observed on 04/13/2023.

National Securities Clearing Corporation (NSCC)

At the end of the second quarter of 2023, NSCC's 12-month backtesting coverage level was 99.8%. The 1-month coverage ratio was at 99.7% for April, and 99.8% for May and June. The median backtesting deficiency for the quarter was \$1.8MM. The largest deficiency for the quarter was \$26.6MM, which was observed on 05/24/2023.

Q2 2023 SUPPLEMENTAL EXPLANATORY NOTE (Cont'd)

Liquidity Results

There were no simulated default liquidity sufficiency shortfalls observed in Q2 2023.

For GSD and MBSD, the values are estimated liquidity obligations, post netting that are based on trades that are due to settle the following business day. For NSCC, the values are estimated liquidity obligations that are based on multi-day obligations throughout the (T+2) settlement cycle plus the Long Allocation and CALM offsets. The total reflects, where relevant, intraday and multiday payment obligations that could be caused by the default of any single participant and its affiliates (including transactions cleared for indirect participants) in extreme but plausible market conditions.

The liquidity results reflect NSCC's potential liquidity obligations in a Member default scenario. In a non-default scenario, NSCC's Members have cash obligations for all securities deliveries (buy positions). Those cash obligations are netted with cash received for all securities deliveries (sell positions). If a portfolio is balanced with buys/sells, these settlement amounts will largely offset.

In a default scenario, NSCC is responsible for the receipt of securities from, and payment of cash to, the contra side Members (buy positions). This represents the exposure that is published in this report. NSCC may also need to source securities that the defaulting Member was unable to deliver (sell positions). The liquidity obligations of the sell positions pair-off, as NSCC would exchange settlement proceeds between the two contra side Members. As such, the buy positions drive the potential default liquidity risk that is posed to NSCC, since NSCC would be responsible for the payment of cash required to settle those purchases. Therefore, NSCC's conservative liquidity results derived from a default scenario are not comparable to the non-default settlement obligations of its Members.

Liquidity results also reflect the fact that NSCC receives option activity from the Options Clearing Corporation ("OCC") each business day, but activity on non-expiry dates is not as significant as the activity observed around standard expiration periods. Liquidity needs are conservatively calculated and liquidity resources are measured assuming the guarantee for OCC options has been transferred to NSCC. Liquidity risk measurement is calibrated extremely conservatively to address uncertainty of potential outcomes; resources are likely to increase during periods of stress over a 4-day default period, but no such increases are taken into account as potential risk mitigation.

NSCC uses the Supplemental Liquidity Deposit ("SLD"), a payment obligation, determined by whether the projected or actual daily liquidity need on a business day exceeds the sum of NSCC's qualifying liquid resources ("QLR") available to NSCC, after the application of a wide-range of stressed market assumptions. The SLD payment obligation is based on the calculated QLR and projected or actual liquidity exposure over the upcoming settlement cycle that a Member's daily activity would pose to NSCC on that particular day in the event of that Member's default. NSCC collected SLD five times in Q2. SLD is part of NSCC's diversified set of liquidity resources; QLR includes cash deposits to the NSCC Clearing Fund; proceeds of the issuance and private placement of (a) short-term, unsecured notes in the form of commercial paper and extendable notes and (b) term debt; and cash that would be obtained by drawing on NSCC's committed 364-day credit facility with a consortium of banks. The SLD rule is Rule 4A in the NSCC rulebook that can be accessed via https://www.dtcc.com/~media/Files/Downloads/legal/rules/nscc_rules.pdf. Full text of the SLD filings may be obtained by visiting the DTCC website at www.dtcc.com/legal/sec-rule-filings.

Disclosure Reference	Disclosure Description		Frequency	Data Type	FICC		NSCC	Explanatory Notes
					GSD	MBSD		
Disclosure 4.1 - Total value of default resources (excluding initial and retained variation margin), split by clearing service if default funds are segregated by clearing service								
4.1.1	Prefunded - Own Capital Before		Quarterly/ Quarter End	USD \$MM	78		114	The Company maintains an amount referred to as the corporate contribution, to be applied to losses of the Company as provided in the clearing agency rules. The amount of the corporate contribution is generally equal to 50% of the Company's general business risk capital requirement.
4.1.2	Prefunded - Own Capital Alongside			USD \$MM	N/A	N/A	N/A	
4.1.3	Prefunded - Own Capital After			USD \$MM	N/A	N/A	N/A	
4.1.4	Prefunded - Aggregate Participant Contributions - Required			USD \$MM	39,052	10,280	8,601	NSCC and each FICC Division calculates and collects Clearing Fund from its Members using a risk-based margin methodology. These amounts (a Member's "Required Fund Deposit") operate as the Member's margin, and the aggregate of all such Members' deposits is, collectively, the Clearing Fund, which operates as NSCC's/FICC (with respect to each division's) default fund. For NSCC, on September 5, 2017, the US cash equities markets moved to a T+2 settlement cycle. Accordingly, after that date, the clearing fund has been calculated to take into account the shortened settlement cycle.
4.1.5	Prefunded - Aggregate Participant Contributions - Post-Haircut Posted			USD \$MM	47,613	12,315	9,673	
4.1.6	Prefunded - Other			USD \$MM	N/A	N/A	N/A	
4.1.7	Committed - Own/parent funds that are committed to address a participant default (or round of participant defaults)			USD \$MM	N/A	N/A	N/A	
4.1.8	Committed - Aggregate participant commitments to address an initial participant default (or initial round of participant defaults)			USD \$MM	N/A	N/A	N/A	
4.1.9	Committed - Aggregate participant commitments to replenish the default fund to deal with a subsequent participant default (or round of participant defaults) after the initial participant default (or round of participant defaults) has been addressed.			USD \$MM	N/A	N/A	N/A	
4.1.10	Committed - Other			USD \$MM	N/A	N/A	N/A	
Disclosure 4.2 - Kccp - Quarter End								
4.2.1	Kccp - Kccp need only be reported by those CCPs which are, or seek to be a "qualifying CCP" under relevant law.		Quarterly	USD \$MM	585	N/A	N/A	
Disclosure 4.3 - Value of pre-funded default resources (excluding initial and retained variation margin) held for each clearing service								
4.3.1	Cash deposited at a central bank of issue of the currency concerned		Quarterly/ Quarter End	USD \$MM	13,649	4,218	10,626	
				USD \$MM	13,649	4,218	10,626	
4.3.2	Cash deposited at other central banks			USD \$MM	0	0	0	
				USD \$MM	0	0	0	
4.3.3	Secured cash deposited at commercial banks (including reverse repo)			USD \$MM	0	0	0	
				USD \$MM	0	0	0	
4.3.4	Unsecured cash deposited at commercial banks			USD \$MM	500	125	500	See Explanatory Note from 4.1
				USD \$MM	500	125	500	
4.3.4.2	Unsecured cash invested in Money Market Mutual Funds			USD \$MM	0	0	0	See Explanatory Note from 4.1
				USD \$MM	0	0	0	
4.3.4.3	Unsecured cash invested in US Treasury Bills		USD \$MM	0	0	0	See Explanatory Note from 4.1	
			USD \$MM	0	0	0		
4.3.5	Non-Cash Sovereign Government Bonds - Domestic		USD \$MM	30,373	8,114	564	See Explanatory Note from 4.1	
			USD \$MM	29,231	7,844	548		

Disclosure Reference	Disclosure Description		Frequency	Data Type	FICC		NSCC	Explanatory Notes
					GSD	MBSD		
Disclosure 4.3 - Value of pre-funded default resources (excluding initial and retained variation margin) held for each clearing service - Cont'd								
4.3.6	Non-Cash Sovereign Government Bonds - Other	Pre Haircut	Quarterly/ Quarter End	USD \$MM	0	0	0	See Explanatory Note from 4.1
		Post Haircut		USD \$MM	0	0	0	
4.3.7	Non-Cash Agency Bonds	Pre Haircut		USD \$MM	4,625	154	0	
		Post Haircut		USD \$MM	4,301	144	0	
4.3.8	Non-Cash State/municipal bonds	Pre Haircut		USD \$MM	0	0	0	
		Post Haircut		USD \$MM	0	0	0	
4.3.9	Non-Cash Corporate bonds	Pre Haircut		USD \$MM	0	0	0	
		Post Haircut		USD \$MM	0	0	0	
4.3.10	Non-Cash Equities	Pre Haircut		USD \$MM	0	0	0	
		Post Haircut		USD \$MM	0	0	0	
4.3.11	Non-Cash Commodities - Gold	Pre Haircut		USD \$MM	0	0	0	
		Post Haircut		USD \$MM	0	0	0	
4.3.12	Non-Cash Commodities - Other	Pre Haircut		USD \$MM	0	0	0	
		Post Haircut		USD \$MM	0	0	0	
4.3.13	Non-Cash Commodities - Mutual Funds / UCITs	Pre Haircut	USD \$MM	0	0	0		
		Post Haircut	USD \$MM	0	0	0		
4.3.14	Non-Cash Commodities - Other	Pre Haircut	USD \$MM	0	0	0		
		Post Haircut	USD \$MM	0	0	0		
4.3.15	In total. Reported as at quarter end; Pre-Haircut and Post-Haircut	Pre Haircut	USD \$MM	49,147	12,611	11,690		
		Post Haircut	USD \$MM	47,682	12,331	11,674		

Disclosure 4.4 - Credit Risk Disclosures								
4.4.1	State whether the CCP is subject to a minimum "Cover 1" or "Cover 2" requirement in relation to total pre-funded default resources.		Quarterly		Cover 1	Cover 1	Cover 1	
4.4.2	For each clearing service, state the number of business days within which the CCP assumes it will close out the default when calculating credit exposures that would potentially need to be covered by the default fund.			Bus. Days	3	3	3	This is our risk horizon for liquidation and hedging of market risk.
4.4.3	For each clearing service, the estimated largest aggregate stress loss (in excess of initial margin) that would be caused by the default of any single participant and its affiliates (including transactions cleared for indirect participants) in extreme but plausible market conditions. (Previous 12 Months)	Peak Day/ Previous 12 Months		USD \$MM	2,456	2,552	1,646	Amounts correspond to largest Cover 1 ratio. This may not correspond to the largest stress loss amount observed during the look-back period.
		Mean Avg/ Previous 12 Months		USD \$MM	1,608	1,617	506	In November 2022, a rule filing related to GSD's stress testing program was approved by regulators, henceforth GSD results from December 2022 onwards are derived from a model that includes changes described in the rule filing. GSD ST results are the combined average of outputs before and after the described changes.
4.4.4	Report the number of business days, if any, on which the above amount (4.4.3) exceeded actual pre-funded default resources (in excess of initial margin).			Bus. Days	0	0	0	
4.4.5	The amount in 4.4.3 which exceeded actual pre-funded default resources (in excess of initial margin) (Previous 12 Months)	Amt Exceeded/ Previous 12 Months		USD \$MM	0	0	0	
4.4.6	For each clearing service, the actual largest aggregate credit exposure (in excess of initial margin) to any single participant and its affiliates (including transactions cleared for indirect participants) (Previous 12 Months)	Peak Day/ Previous 12 Months		USD \$MM	746	859	82	Amount represents Peak/Average VaR model back test results.
		Avg/ Previous 12 Months		USD \$MM	63	120	7	
4.4.7	For each clearing service, the estimated largest aggregate stress loss (in excess of initial margin) that would be caused by the default of any two participants and their affiliates (including transactions cleared for indirect participants) in extreme but plausible market conditions (Previous 12 Months)	Peak Day/ Previous 12 Months		USD \$MM	3,384	3,894	1,665	Amounts correspond to largest Cover 2 ratio. This may not correspond to the largest Cover-2 stress loss amount observed during the look-back period.
		Mean Avg/ Previous 12 Months		USD \$MM	2,586	2,629	714	In November 2022, a rule filing related to GSD's stress testing program was approved by regulators, henceforth GSD results from December 2022 onwards are derived from a model that includes changes described in the rule filing. GSD ST results are the combined average of outputs before and after the described changes.

Disclosure Reference	Disclosure Description	Frequency	Data Type	FICC		NSCC	Explanatory Notes
				GSD	MBSD		
Disclosure 4.4 - Credit Risk Disclosures - Cont'd							
4.4.8	Number of business days, if any, on which the above amount (4.4.7) exceeded actual pre-funded default resources (in excess of initial margin) and by how much.	Quarterly	Bus. Days	0	0	0	Total number of business days where the largest Cover 2 ratio per day exceeded 100% for the last 12 months of this test period. Excess amounts above pre-funded default resources (in excess of initial margin) corresponding to these business days are referenced below in 4.4.9 explanatory notes, when applicable.
4.4.9	The amount in 4.4.7 which exceeded actual pre-funded default resources (in excess of initial margin) (Previous 12 Months)		USD \$MM	0	0	0	
4.4.10	For each clearing service, what was the actual largest aggregate credit exposure (in excess of initial margin) to any two participants and their affiliates		Peak Day/ Previous 12 Months	USD \$MM	1,046	1,550	109
		Avg/ Previous 12 Months	USD \$MM	97	213	9	
Disclosure 5.1 - Assets eligible as initial margin, and the respective haircuts applied							
5.1.1	Assets eligible as initial margin and the respective haircuts applied	Update as changes are made	Website/ Hyperlink	http://www.dtcc.com/~media/Files/Downloads/legal/rules/ficc_gov_rules.pdf	http://www.dtcc.com/~media/Files/Downloads/legal/rules/ficc_mbsd_rules.pdf	http://www.dtcc.com/~media/Files/Downloads/legal/rules/nsc_rules.pdf	GSD: Section: "SCHEDULE OF HAIRCUTS FOR ELIGIBLE CLEARING FUND SECURITIES" MBSD: Section: "SCHEDULE OF HAIRCUTS FOR ELIGIBLE CLEARING FUND SECURITIES" NSCC: Section: "PROCEDURE XV", "III. Collateral Value of Eligible Clearing Fund Securities"
Disclosure 5.2 - Assets Eligible for pre-funded participant contributions to the default resources, and the respective haircuts applied (if different from 5.1)							
5.2.1	Assets Eligible for pre-funded participant contributions to the default resources, and the respective haircuts applied (if different from 5.1)	Update as changes are made		See 5.1	See 5.1	See 5.1	
Disclosure 5.3 - Results of testing of haircuts							
5.3.1	Confidence interval targeted through the calculation of haircuts	Quarterly	Percentage	99%	99%	99%	See Explanatory Note from 4.4.2
5.3.2	Assumed holding/liquidation period for the assets accepted		Bus. Days	3	3	3	
5.3.3	Look-back period used for testing the haircuts			10+ years	10+ years	10+ years	For Treasury and Agencies the lookback period, "10+ years", starts Jan 1, 2008 and continues to the last day of this quarter tested & reported herewith. Similar to current scenario selection or retention approach, where Historic Stress Scenario Dates are selected from a timespan of more than 10 years (utilizing a fixed start date and extending the end date), or retained for all Historic Scenario Dates previously derived which are on or after Jan 1, 2008. For Mortgages, Historic Stress Scenarios are selected from a 10+ years look-back period starting in 2002 and applied to CUSIPs selected from the 3 months of the quarterly test period.
5.3.4	Number of days during the look-back period on which the fall in value during the assumed holding/liquidation period exceeded the haircut on an asset.		Bus. Days	Treasury total of 8 days. Mortgages total of 62 days. Agency 0 days.	Treasury total of 8 days. Mortgages total of 62 days. Agency 0 days.	Treasury total of 8 days. Mortgages total of 62 days. Agency 0 days.	

Disclosure Reference	Disclosure Description	Frequency	Data Type	FICC		NSCC	Explanatory Notes	
				GSD	MBSD			
Disclosure 6.1 - Total initial margin required split by house, client gross, client net and total (if not segregated)								
6.1.1	Total initial margin required split by house, client gross, client net and total (if not segregated)	House (Net)	Quarterly	USD \$MM	39,052	10,280	8,601	See Explanatory Note from 4.1.4 ¹ Not applicable. GSD/MBSD/NSCC does not hold client margin. See NSCC/FICC's Disclosure Frameworks, Principle 14 discussion.
		Client (Gross)		USD \$MM	N/A ¹	N/A ¹	N/A ¹	
		Client (Net)		USD \$MM	N/A ¹	N/A ¹	N/A ¹	
		Total		USD \$MM	39,052	10,280	8,601	
Disclosure 6.2 - For each clearing service, total initial margin required, split by house and client (or combined total if not segregated)								
						Not applicable. GSD/MBSD/NSCC does not hold client margin. See NSCC/FICC's Disclosure Frameworks, Principle 14 discussion. For aggregate numbers, see 6.1.1 above.		
Disclosure 6.3 - Initial Margin rates on individual contracts, where the CCP sets such rates								
6.3.1	Initial Margin rates on individual contracts where the CCP sets such rates	Update as changes are made			N/A	N/A	N/A	
Disclosure 6.4 - Type of initial margin model used (e.g. portfolio simulation or risk aggregation) for each clearing service and the key model design parameters for each initial margin model applied to that clearing service								
6.4.1	Type of initial margin model used (e.g. portfolio simulation or risk aggregation) for each clearing service and the key model design parameters for each initial margin model applied to that clearing service	Update as changes are made			Historical Simulation + Haircut	Historical Simulation + Haircut	Parametric VaR + Haircut	
Disclosure 6.5 - Results of back-testing of initial margin. At a minimum, this should include, for each clearing service and each initial margin model applied to that clearing service								
6.5.1	Number of times over the past twelve months that margin coverage held against any account fell below the actual mark-to-market exposure of that member account – based on daily back-testing results	Once-a-day/ Previous 12 Months	Quarterly	Count	289	184	69	
6.5.2	Number of observations ((Number of accounts * number of days))	Previous 12 Months		Count	30,751	16,642	31,993	
6.5.3	Achieved coverage level [aggregate CCP-level backtest coverage]	Previous 12 Months		Percentage	99.1%	98.9%	99.8%	
6.5.4	Where breaches of initial margin coverage (as defined in 6.5(a)) have occurred, report on size of uncovered exposure	Peak Size/ Previous 12 Months		USD \$MM	682	460	46	
6.5.5	Where breaches of initial margin coverage (as defined in 6.5(a)) have occurred, report on size of uncovered exposure	Average Size/ Previous 12 Months		USD \$MM	32	25	5	
Disclosure 6.6 - Average Total Variation Margin Paid to the CCP by participants each business								
6.6.1	Average Total Variation Margin Paid to the CCP by participants each business day	Average	Quarterly	USD \$MM	6,915	581	628	For GSD and MBSD, VM is a cash pass-through process across the Members; for NSCC, VM charges are included as part of the Clearing Fund requirements. MTM debits were aggregated across all Members to reflect the variation margin paid to all Members.
Disclosure 6.7 - Maximum total variation margin paid to the CCP on any given business day over the period								
6.7.1	Maximum total variation margin paid to the CCP on any given business day over the period	Maximum	Quarterly	USD \$MM	9,842	1,583	2,853	See Explanatory Note from 6.6

Disclosure Reference	Disclosure Description		Frequency	Data Type	FICC		NSCC	Explanatory Notes
					GSD	MBSD		
Disclosure 6.8 - Maximum aggregate initial margin call on any given business day over the period								
6.8.1	Maximum aggregate initial margin call on any given business day over the period	Maximum	Quarterly	USD \$MM	3,970	1,328	4,752	Amount represents the largest aggregate deficit over amounts on deposit. This is the actual call made, to be reduced by any excess collateral that was held. Call amount would be inclusive of any intraday calls made.
Disclosure 7.1 - Liquidity Risk								
7.1.1	State whether the clearing service maintains sufficient liquid resources to 'Cover 1' or 'Cover 2'.		Quarterly/ Quarter End		Cover 1	Cover 1	Cover 1	
7.1.2	Size and composition of qualifying liquid resources for each clearing service; (a) Cash deposited at a central bank of issue of the currency concerned			USD \$MM	13,649	4,218	22,018	
7.1.3	Size and composition of qualifying liquid resources for each clearing service; (b) Cash deposited at other central banks			USD \$MM	0	0	0	
7.1.4	Size and composition of qualifying liquid resources for each clearing service; (c) Secured cash deposited at commercial banks (including reverse repo)	Repo Only		USD \$MM	0	0	0	
7.1.5	Size and composition of qualifying liquid resources for each clearing service; (d) Unsecured cash deposited at commercial banks	Commercial Bank Deposits		USD \$MM	500	125	1,500	
		Money Market Funds		USD \$MM	0	0	0	
		US Treasury Bills		USD \$MM	0	0	0	
7.1.6	Size and composition of qualifying liquid resources for each clearing service; (e) secured committed lines of credit (ie those for which collateral/security will be provided by the CCP if drawn) including committed foreign exchange swaps and committed repos			USD \$MM	86,313	47,378	9,495	For FICC, amount represents the assigned total amount of rules-based facility, Capped Contingency Liquidity Facility ("CCLF") for the reported quarter. For NSCC, the amount represents a secured line of credit with a syndicate of lenders.
7.1.7	Size and composition of qualifying liquid resources for each clearing service; (f) unsecured committed lines of credit (ie which the CCP may draw without providing collateral/security)			USD \$MM	N/A	N/A	N/A	
7.1.8	Size and composition of qualifying liquid resources for each clearing service; (g) highly marketable collateral held in custody and investments that are readily available and convertible into cash with prearranged and highly reliable funding arrangements even in extreme but plausible market conditions			USD \$MM	N/A	N/A	N/A	
7.1.9	Size and composition of qualifying liquid resources for each clearing service; (h) other			USD \$MM	N/A	N/A	2,000	For NSCC, Supplemental Liquidity Deposit ('SLD') program provides for additional rules-based liquidity resources. Please see Supplemental Note for additional information. Resources reported in Section 7.1 are as of 6/30/23 and do not correspond to the dates of the actual largest obligations.
7.1.10	State whether the CCP has routine access to central bank liquidity or facilities.			N/A	N/A	N/A		
7.1.11	Details regarding the schedule of payments or priority for allocating payments, if such exists, and any applicable rule, policy, procedure, and governance arrangement around such decision making.			N/A	N/A	N/A		

Disclosure Reference	Disclosure Description	Frequency	Data Type	FICC		NSCC	Explanatory Notes
				GSD	MBSD		
Disclosure 7.2 - Size and composition of any supplementary liquidity risk resources for each clearing service above those qualifying liquid resources above.							
7.2.1	Size and composition of any supplementary liquidity risk resources for each clearing service above those qualifying liquid resources in 7.1	Quarterly/ Quarter End	USD \$MM	0	0	N/A	FICC has entered into uncommitted master repurchase agreements ("MRAs") which it may look to as a liquidity source in addition to the resources discussed in the explanatory note from 7.1. These are not designated as qualifying liquid resources. Amounts available under the MRAs cannot be quantified.
Disclosure 7.3 - Liquidity Risk							
7.3.1	Estimated largest same-day and, where relevant, intraday and multiday payment obligation in total that would be caused by the default of any single participant and its affiliates (including transactions cleared for indirect participants) in extreme but plausible market conditions	Forward looking/ Quarterly	USD \$MM	66,394	25,108	29,807	GSD/MBSD/NSCC did not experience a default event nor did any Member fail to satisfy payment obligations. See Supplemental Note.
7.3.2	Number of business days, if any, on which the above amount exceeded its qualifying liquid resources (identified as in 7.1, and available at the point the breach occurred), and by how much.	Quarterly	Bus. Days	0	0	0	See Supplemental Note
7.3.3			USD \$MM	0	0	0	
7.3.4	Actual largest intraday and multiday payment obligation of a single participant and its affiliates (including transactions cleared for indirect participants) over the past twelve months; Peak day amount in previous twelve months	Previous 12 Months	USD \$MM	66,394	34,958	42,328	GSD/MBSD/NSCC did not experience a default event nor did any Member fail to satisfy payment obligations. See Supplemental Note.
7.3.5	Estimated largest same-day and, where relevant, intraday and multiday payment obligation in each relevant currency that would be caused by the default of any single participant and its affiliates (including transactions cleared for indirect participants) in extreme but plausible market conditions	Forward looking/ Quarterly	USD \$MM	66,394	25,108	29,807	See Explanatory Note from 7.3.1
7.3.6	Number of business days, if any, on which the above amounts exceeded its qualifying liquid resources in each relevant currency (as identified in 7.1 and available at the point the breach occurred), and by how much	Quarterly	Bus. Days	0	0	0	See Supplemental Note
7.3.7			USD \$MM	0	0	0	
Disclosure 12.1 - Percentage of settlements by value effected using a DvP, DvD or PvP settlement mechanism							
12.1.1	Percentage of settlements by value effected using a DvP settlement mechanism	Quarterly	Percentage	100%	100%	100%	FICC data provided with respect to GSD GCF Repo and non-GCF Repo CCP services and MBSD clearing services. NSCC data provided with respect to CNS, NSCC's CCP service, which uses a model 2 DvP Settlement mechanism.
12.1.2	Percentage of settlements by value effected using a DvD settlement mechanism		Percentage	N/A	N/A	N/A	
12.1.3	Percentage of settlements by value effected using a PvP settlement mechanism		Percentage	N/A	N/A	N/A	
Disclosure 12.2 - Percentage of settlements by volume effected using a DvP, DvD or PvP settlement mechanism							
12.2.1	Percentage of settlements by volume effected using a DvP settlement mechanism	Quarterly	Percentage	100%	100%	100%	FICC data provided with respect to GSD GCF Repo and non-GCF Repo CCP services and MBSD clearing services. NSCC data provided with respect to CNS, NSCC's CCP service, which uses a model 2 DvP Settlement mechanism.
12.2.2	Percentage of settlements by volume effected using a DvD settlement mechanism		Percentage	N/A	N/A	N/A	
12.2.3	Percentage of settlements by volume effected using a PvP settlement mechanism		Percentage	N/A	N/A	N/A	

Disclosure Reference	Disclosure Description	Frequency	Data Type	FICC		NSCC	Explanatory Notes
				GSD	MBSD		
Disclosure 13.1 - Quantitative information related to defaults							
13.1.1	Quantitative information related to defaults; Amount of loss versus amount of initial margin	Ad-hoc		N/A	N/A	N/A	
13.1.2	Quantitative information related to defaults; Amount of other financial resources used to cover losses			N/A	N/A	N/A	
13.1.3.1	Quantitative information related to defaults; Proportion of client positions closed-out			N/A	N/A	N/A	
13.1.3.2	Quantitative information related to defaults; Proportion of client positions ported			N/A	N/A	N/A	
13.1.4	Quantitative information related to defaults; Appropriate references to other published material related to the defaults			N/A	N/A	N/A	
Disclosure 14.1 - Total Client Positions held as a share of notional values cleared or of the settlement value of securities transactions							
14.1.1	Total Client Positions held in individually segregated accounts	Quarterly/ Quarter End		N/A	N/A	N/A	Not applicable. GSD/MBSD/NSCC does not maintain separate "house" and "client" accounts for its Members. See NSCC/FICC's Disclosure Frameworks, Principle 14 discussion.
14.1.2	Total Client Positions held in omnibus client-only accounts, other than LSOC accounts			N/A	N/A	N/A	
14.1.3	Total Client Positions held in legally segregated but operationally comingled (LSOC) accounts			N/A	N/A	N/A	
14.1.4	Total Client Positions held in comingled house and client accounts			N/A	N/A	N/A	
Disclosure 15.1 - General business risk							
15.1.1	Value of liquid net assets funded by equity	Annual	USD \$MM	359	722		
15.1.2	Six months of current operating expenses		USD \$MM	156	227	Quarter-end	
Disclosure 15.2 - General business risk; Financial Disclosures							
15.2.1	Total Revenue	Annual	USD \$MM	347	608	Calculated on a trailing 12-month basis	
15.2.2	Total Expenditure		USD \$MM	331	479	Calculated on a trailing 12-month basis	
15.2.3	Profits		USD \$MM	16	129	Calculated on a trailing 12-month basis	
15.2.4	Total Assets		USD \$MM	61,885	25,042	Quarter-end	
15.2.5	Total Liabilities		USD \$MM	61,526	24,299	Quarter-end	
15.2.6	Explain if collateral posted by clearing participants is held on or off the CCP's balance sheet				Collateral is held on Balance Sheet	Collateral is held on Balance Sheet	
15.2.7	Additional items as necessary		USD \$MM	n/a	n/a		

Disclosure Reference	Disclosure Description	Frequency	Data Type	FICC		NSCC	Explanatory Notes
				GSD	MBSD		
Disclosure 15.3 - General business risk; Income breakdown							
15.3.1	Percentage of total income that comes from fees related to provision of clearing services	Annual	Percentage	99.6%		98.5%	Calculated on a trailing 12-month basis
15.3.2	Percentage of total income that comes from the reinvestment (or rehypothecation) of assets provided by clearing participants		Percentage	n/a		n/a	Calculated on a trailing 12-month basis
Disclosure 16.1 - Total cash (but not securities) received from participants, regardless of the form in which it is held, deposited or invested, split by whether it was received as initial margin or default fund contribution							
16.1.1	Total cash (but not securities) received from participants, regardless of the form in which it is held, deposited or invested, received as initial margin	Quarterly/ Quarter End	USD \$MM	14,149	4,343	11,126	See Explanatory Note from 4.1
16.1.2	Total cash (but not securities) received from participants, regardless of the form in which it is held, deposited or invested, received as default fund contribution		USD	0	0	0	
Disclosure 16.2 - How total cash received from participants (16.1) is held/deposited/invested, including;							
16.2.1	Percentage of total participant cash held as cash deposits (including through reverse repo)	Quarterly/ Quarter End	Percentage	100.0%	100.0%	100.0%	
16.2.2	Percentage of total participant cash held as cash deposits (including through reverse repo); as cash deposits at central banks of issue of the currency deposited		Percentage	96.5%	97.1%	95.5%	
16.2.3	Percentage of total participant cash held as cash deposits (including through reverse repo); as cash deposits at other central banks		Percentage	N/A	N/A	N/A	
16.2.4	Percentage of total participant cash held as cash deposits (including through reverse repo); as cash deposits at commercial banks (Secured, including through reverse repo)		Percentage	N/A	N/A	N/A	
16.2.5	Percentage of total participant cash held as cash deposits (including through reverse repo); as cash deposits at commercial banks (Unsecured)		Percentage	3.5%	2.9%	4.5%	
16.2.6	Percentage of total participant cash held as cash deposits (including through reverse repo); in money market funds		Percentage	N/A	N/A	N/A	
16.2.7	Percentage of total participant cash held as cash deposits (including through reverse repo); in other forms		Percentage	N/A	N/A	N/A	
16.2.8	Percentage of total participant cash held as cash deposits (including through reverse repo); percentage split by currency of these cash deposits (including reverse repo) and money market funds by CCY; Specify local currency in comments		Percentage	100.0%	100.0%	100.0%	All investments are in USD
16.2.9	Weighted average maturity of these cash deposits (including reverse repo) and money market funds		Bus. Days	100.0%	100.0%	100.0%	All investments are overnight
16.2.10	Percentage of total participant cash invested in securities; Domestic sovereign government bonds		Percentage	N/A	N/A	N/A	
16.2.11	Percentage of total participant cash invested in securities; Other sovereign government bonds		Percentage	N/A	N/A	N/A	
16.2.12	Percentage of total participant cash invested in securities; Agency Bonds		Percentage	N/A	N/A	N/A	
16.2.13	Percentage of total participant cash invested in securities; State/municipal bonds		Percentage	N/A	N/A	N/A	
16.2.14	Percentage of total participant cash invested in securities; Other instruments		Percentage	N/A	N/A	N/A	
16.2.15	Percentage of total participant cash invested in securities; percentage split by currency of these securities; Specify local currency in comments;		Percentage	N/A	N/A	N/A	All investments are in USD
16.2.16	Weighted average maturity of cash received from participants invested in securities. The maturity should be reported as number of days.		Bus. Days	N/A	N/A	N/A	
16.2.17	Provide an estimate of the risk on the investment portfolio (excluding central bank and commercial bank deposits) (99% one-day VaR, or equivalent)		USD \$MM	<1	<1	<1	
16.2.18	State if the CCP investment policy sets a limit on the proportion of the investment portfolio that may be allocated to a single counterparty, and the size of that limit.			Yes	Yes	Yes	Size of limits will vary depending on credit rating and other factors.
16.2.19	State the number of times over the previous quarter in which this limit has been exceeded.		Count	0	0	0	

Disclosure Reference	Disclosure Description	Frequency	Data Type	FICC		NSCC	Explanatory Notes	
				GSD	MBSD			
Disclosure 16.3 - Rehypothecation of participant assets (ie non-cash)								
16.3.1	Total value of participant non-cash rehypothecated (Initial margin)	Quarterly/ Quarter End	USD \$MM	N/A	N/A	N/A		
16.3.2	Total value of participant non-cash rehypothecated (Default fund)		USD \$MM	0	0	0	Rehypothecation of clearing fund securities used for liquidity purposes only in the event of a default	
16.3.3	Rehypothecation of participant assets (ie non-cash) by the CCP where allowed; initial margin; over the following maturities: Overnight/one day; one day and up to one week; One week and up to one month; One month and up to one year; One year and up to two years; Over two years		ON_1D	USD \$MM	N/A	N/A	N/A	
			1D_1W	USD \$MM	N/A	N/A	N/A	
			1W_1M	USD \$MM	N/A	N/A	N/A	
			1M_1Y	USD \$MM	N/A	N/A	N/A	
			1Y_2Y	USD \$MM	N/A	N/A	N/A	
			2Y+	USD \$MM	N/A	N/A	N/A	
16.3.4	Rehypothecation of participant assets (ie non-cash); default fund; over the following maturities: Overnight/one day; one day and up to one week; One week and up to one month; One month and up to one year; One year and up to two years; Over two years		ON_1D	USD \$MM	0	0	0	Rehypothecation of clearing fund securities used for liquidity purposes only in the event of a default
			1D_1W	USD \$MM	0	0	0	
			1W_1M	USD \$MM	0	0	0	
			1M_1Y	USD \$MM	0	0	0	
			1Y_2Y	USD \$MM	0	0	0	
			2Y+	USD \$MM	0	0	0	
Disclosure 17.1 - Operational availability target for the core system(s) involved in clearing (whether or not outsourced) over specified period for the system								
17.1.1	Operational availability target for the core system(s) involved in clearing (whether or not outsourced) over specified period for the system	Quarterly	Percentage	99.6%	99.6%	99.6%	This target and the actual results below are calculated at the individual product-line level and then averaged across all of the systems identified below, in accordance with the established calculation for the applicable SLA.	
Disclosure 17.2 - Actual availability of the core system(s) over the previous twelve month period								
17.2.1	Actual availability of the core system(s) over the previous twelve month period	Quarterly	Percentage	99.9%	99.9%	99.7%	Availability is calculated across multiple systems. Specifically, CMU, CNS, NSCC Risk Management, FICC Risk Management, GSD, MBSD and Trade Capture.	
Disclosure 17.3 - Total number of failures								
17.3.1	Total number of failures and duration affecting the core system(s) involved in clearing over the previous twelve month period (Duration of Failure)	Quarterly	Count / hh:mm:ss	8 / 12:54:00		Regulation Systems Compliance and Integrity (Regulation SCI) events for NSCC, GSD, and MBSD over the previous twelve month period are reviewed for Disclosure 17.3 reporting. Regulation SCI events that impact core systems used in clearing that enable the acceptance and novation of trades, and enable the calculation of margin and settlement obligations are assessed by Risk Management, Product Management, Regulation SCI personnel, and Legal to confirm total number of incidents and duration of failures. Incidents that do not result in a direct business impact to clients are not reported as a failure for Disclosure 17.3. In Q2 2023, there were three instances where Clearing Fund Letters breached the SLA, two times within NSCC for 18 minutes and 13 minutes and one time within GSD for 52 minutes. During Q1 2023, processing issues were encountered on DTCC's mainframe impacting ATP and other systems for 4 hours and 34 minutes. In Q4 2022, on two separate occasions, Clearing Fund Letters were regenerated after the client delivery SLA time by 2 hours and 10 minutes and then 8 minutes. In another instance, a network disruption caused the delay of settling bank acknowledgement by 1 hour and 54 minutes. Manual processing caused the unavailability of intraday VaR calculations for 2 hours and 45 minutes.		
Disclosure 17.4 - Recovery time objective(s)								
17.4.1	Recovery time objective(s) (e.g. within two hours)	Quarterly	Time	Within 2 Hours	Within 2 Hours	Within 2 Hours	Recovery time objective is within 2 hours.	

Disclosure Reference	Disclosure Description	Frequency	Data Type	FICC		NSCC	Explanatory Notes
				GSD	MBSD		
Disclosure 18.1 - Number of clearing members, by clearing service							
For GSD, there are Broker/Dealers, Government Sponsored Entities, Banks, and Hedge Funds For MBSD, there are Broker/Dealers, Hedge Fund, Mortgage Companies, Government Sponsored Entities, Registered Investment Companies, etc. For NSCC there are Broker/Dealers, certain stock exchanges (for omnibus account reporting), and one CSD.							
18.1.1.1	Number of general clearing members	Quarterly/ Quarter End	Count	140	79	67	FICC does not distinguish membership categories between members that clear for others and self-clearing. Accordingly, the total number of FICC members are reported here.
18.1.1.2	Number of direct clearing members		Count	0	0	83	
18.1.1.3	Number of others category (Describe in comments)		Count	0	0	0	Numbers do not include types of members that are not eligible for CCP services: GSD Comparison-Only members, MBSD Electronic Pool Notification (EPN)-only members, and NSCC has several limited membership categories that are not reported here.
18.1.2.1	Number of central bank participants		Count	0	0	0	
18.1.2.2	Number of CCP participants		Count	0	0	0	
18.1.2.3	Number of bank participants		Count	45	17	14	
18.1.2.4	Number of other participants (Describe in comments)		Count	95	62	136	Includes Broker/dealers, Stock Exchanges, CSD's and Trust members. Excludes Banks.
18.1.3.1	Number of domestic participants		Count	97	74	147	
18.1.3.2	Number of foreign participants		Count	43	5	3	US Branches/Agencies of Non US legal entities will be considered Non-US (foreign)

Disclosure 18.2 - Open Position Concentration							
18.2.1	For each clearing service with ten or more members, but fewer than 25 members; Percentage of open positions held by the largest five clearing members, including both house and client, in aggregate	Average End of Day	Quarterly	Percentage	N/A	N/A	N/A
		Peak End of Day		Percentage	N/A	N/A	N/A
18.2.2	For each clearing service with 25 or more members; Percentage of open positions held by the largest five clearing members, including both house and client, in aggregate	Average End of Day		Percentage	28%	47%	37%
		Peak End of Day		Percentage	30%	49%	39%
18.2.3	For each clearing service with 25 or more members; Percentage of open positions held by the largest ten clearing members, including both house and client, in aggregate	Average End of Day		Percentage	42%	69%	54%
		Peak End of Day		Percentage	44%	71%	57%

Disclosure 18.3 - Initial Margin Concentration								
18.3.1	For each clearing service with ten or more members, but fewer than 25 members; Percentage of initial margin posted by the largest five clearing members, including both house and client, in aggregate	Average End of Day	Quarterly	Percentage	N/A	N/A	Under NSCC's and each of FICC Division's current rules and structure, they do not maintain separate Guaranty Funds. NSCC and each FICC Division collect Clearing Fund deposits from their Members using a risk-based margin methodology. These amounts operate, individually, as the Member's margin, and the aggregate of all such Members' deposits* is referred to, collectively, as the Clearing Fund, which operates as NSCC's and each of FICC Division's default fund. * Member's deposits include excess deposits exceeding the requirement that can be withdrawn by members.	
		Peak End of Day		Percentage	N/A	N/A		N/A
18.3.2	For each clearing service with 25 or more members; Percentage of initial margin posted by the largest five clearing members, including both house and client, in aggregate	Average End of Day		Percentage	36%	43%		31%
		Peak End of Day		Percentage	38%	45%		36%
18.3.3	For each clearing service with 25 or more members; Percentage of initial margin posted by the largest ten clearing members, including both house and client, in aggregate	Average End of Day		Percentage	52%	61%		46%
		Peak End of Day		Percentage	55%	64%		50%

Disclosure Reference	Disclosure Description	Frequency	Data Type	FICC		NSCC	Explanatory Notes
				GSD	MBSD		
Disclosure 18.4 - Segregated Default Fund Concentration							
18.4.1	For each segregated default fund with ten or more members, but fewer than 25 members; Percentage of participant contributions to the default fund contributed by largest five clearing members in aggregate	Quarterly/ Quarter End	Percentage	N/A	N/A	N/A	See Explanatory Note from 18.3
18.4.2	For each segregated default fund with 25 or more members; Percentage of participant contributions to the default fund contributed by largest five clearing members in aggregate		Percentage	N/A	N/A	N/A	
18.4.3	For each segregated default fund with 25 or more members; Percentage of participant contributions to the default fund contributed by largest ten clearing members in aggregate		Percentage	N/A	N/A	N/A	
Disclosure 19.1 - Tiered participation arrangements, measures of concentration of client clearing							
19.1.1	Number of clients (if known)	Quarterly/ Quarter End	Count	N/A	N/A	N/A	See Explanatory Note from 14.1
19.1.2	Number of direct members that clear for clients		Count	N/A	N/A	67	NSCC: Number denotes members that clear for other Broker/Dealers.
19.1.3.1	Percent of client transactions attributable to the top five clearing members (if CCP has 10+ clearing members); Peak		Percentage	N/A	N/A	N/A	See Explanatory Note from 14.1
19.1.3.2	Percent of client transactions attributable to the top ten clearing members (if CCP has 10+ clearing members); Average		Percentage	N/A	N/A	N/A	See Explanatory Note from 14.1
19.1.4.1	Percent of client transactions attributable to the top five clearing members (if CCP has 25+ clearing members); Peak		Percentage	N/A	N/A	N/A	See Explanatory Note from 14.1
19.1.4.2	Percent of client transactions attributable to the top ten clearing members (if CCP has 25+ clearing members); Average		Percentage	N/A	N/A	N/A	See Explanatory Note from 14.1
Disclosure 20.1 - FMI Links, Value of Trades							
20.1.1	Value of trades cleared through each link – as a share of total trade values/total notional values cleared in that service	Quarterly	USD \$MM	N/A	N/A	N/A	NSCC does not maintain any interoperable links as described by these items. CDS Clearing and Depository Services, Inc. (the Canadian CSD) is a full service member of NSCC, and is subject to margining and the other requirements of membership as a member. The CDS relationship is described in NSCC's Disclosure Framework under Principle 20. The GSD/CME Cross-Margining Agreement, which is described in GSD's disclosure with respect to PFMI Principle 20, is not an interoperable link as described by sections 20.1 through 20.6 of the quantitative disclosure.
Disclosure 20.2 - FMI Links, Initial Margin or equivalent financial resources provided						See Explanatory Note from 20.1	
Disclosure 20.3 - FMI Links, Initial Margin or equivalent financial resources collected						See Explanatory Note from 20.1	
Disclosure 20.4 - FMI Links, Results of Back-testing coverage						See Explanatory Note from 20.1	
Disclosure 20.5 - FMI Links, Additional pre-funded financial resources provided to						See Explanatory Note from 20.1	
Disclosure 20.6 - FMI Links, Additional pre-funded financial resources collected from						See Explanatory Note from 20.1	

Disclosure Reference	Disclosure Description		Frequency	Data Type	FICC		NSCC	Explanatory Notes
					GSD	MBSD		
Disclosure 20.7 - FMI Links, Cross Margining								
20.7.1	Value of trades subject to cross margining, by clearing service, as a percentage of total trade values/total notional values cleared		Quarter End	Percentage	15.25%	N/A	N/A	NSCC does not maintain any cross margining arrangements. NSCC does maintain an arrangement with OCC for the settlement of exercised and assigned options, which is described in NSCC's Disclosure Framework under Principle 20. GSD has a cross-margining arrangement with the Chicago Mercantile Exchange. For GSD under section 20.7, disclosures are quarter end.
20.7.2	Reduction in total initial margin held by the CCP as a result of cross margining, as a percentage of total initial margin that would otherwise have been held.			Percentage	0.20%	N/A	N/A	
Disclosure 23.1 - Disclosure of rules, key procedures, and market data; Average Daily Volumes								
23.1.1	Average Daily Volumes by Asset Class, CCY and OTC/ETD	OTC	Quarterly		442,191	12,388	88,075,504	For GSD/MBSD and NSCC, average daily volume data is based on sides (as opposed to trades). For NSCC: Includes Exchange-based and OTC trades. Omnibus Accounts are excluded for NSCC.
		NSCC_Exchange			-	-	107,361,889	
23.1.2	Average Notional Value of trades cleared by Asset Class, CCY and OTC/ETD	OTC	USD \$MM	5,775,541	308,270	1,241,665		
		NSCC_Exchange	USD \$MM	-	-	622,772		
Disclosure 23.2 - Disclosure of rules, key procedures, and market data; Non-Yet-Settled								
23.2.1	Gross notional outstanding/total settlement value of novated but not-yet settled securities transactions by Asset Class, CCY and OTC/ETD	CDS_OTC	Quarterly/ Quarter End	USD \$BN	1,587	349	233	Sources: FICC and NSCC financial statements, as available in the DTCC public website
Disclosure 23.3 - Disclosure of rules, key procedures, and market data; Execution Facility								
23.3.1	Average daily volumes submitted by Execution facility or matching/confirmation venue		Quarterly		N/A	N/A	See 23.1	See comment from 23.1
23.3.2	Notional contract values submitted by Execution facility or matching/confirmation venue			USD \$MM	N/A	N/A	See 23.1	
Payment Risk Committee Disclosure 1 - Concentration Measures								
	Initial Margin Required	Top 3 Members	Quarterly/ Quarter End	USD \$MM	8,178	3,627	1,927	Aggregated by deposit account.
	Number of Members with x% of Initial Margin Requirement	> 20%		Count	0	0	0	
		15% to 20%		Count	0	0	0	
		10% to 15%		Count	0	2	0	
		5% to 10%		Count	4	2	2	
		< 5%		Count	177	105	148	
	Total Initial Margin Posted (Market Value)	Total	USD \$MM	48,854	12,436	9,688		

Disclosure Reference	Disclosure Description	Frequency	Data Type	FICC		NSCC	Explanatory Notes
				GSD	MBSD		
Payment Risk Committee Disclosure 2 - Initial Margin Detail							
Initial Margin Breakdown by Component	VaR / Volatility	Quarterly/ Quarter End	USD \$MM	31,640	8,051	5,051	The Value-at-Risk (VaR) and Volatility components are based on the potential price fluctuations of unsettled positions. With the implementation of SVaR for FICC, Margin Proxy is now used as a backup VaR methodology in the event of a significant vendor data disruption.
	Coverage Component (CC)		USD \$MM	N/A	N/A	19	The Coverage Component is a back-test-like component that is meant to address potential model deficiencies. The Coverage Component is designed by NSCC to mitigate the risks associated with a Member's Required Deposit being insufficient to cover projected liquidation losses to the Coverage Target by adjusting a Member's Required Deposit towards the Coverage Target.
	Margin Liquidity Deposit (MLA)		USD \$MM	995	348	361	The Margin Liquidity Adjustment Charge (MLA), addresses the risk presented to the Clearing Corp when a Member's portfolio contains large Net Unsettled Positions in the particular group of securities with a similar risk profile or in a particular asset type.
	Blackout Period Exposure Adjustment		USD \$MM	21	N/A	N/A	Blackout Period Exposure: Refers to the exposure to GSD and Reverse Repo participants of the potential overvaluation of MBS Collateral in GCF Repos during the Blackout Period. An adjustment to Clearing Fund Requirements (increase to Repo participants and decrease to Reverse Repo participants) is made based on MBS positions in Member's GCF portfolios during the Blackout Period. The adjustment is based on the average realized pay-down rate transactions. The adjustment is made during the Blackout Period, the first 5 to 7 business days each month.
	CME Cross Margin		USD \$MM	-76	N/A	N/A	GSD has a cross-margining arrangement with the Chicago Mercantile Exchange. The amount represents the aggregate margin savings for common members who elect to participate in the cross-margining arrangement.
	Margin Req. Differential (MRD)		USD \$MM	N/A	N/A	1,882	The NSCC MRD is designed to address position-variability risk by estimating the shortfall of end-of-day VaR and mark-to-market compared with the next day's intraday risk and the risk that the next margin call will not be satisfied.
	Mark-to-Market (MtM)		USD \$MM	N/A	0	185	As a cash market CCP, NSCC uses a continuous net system where securities within the settlement system are marked daily to the prior night's closing price. Net portfolio debits per Member are collected as part of the Member's Required Deposit; net portfolio credits are not included. Value also includes 'When Issues MtM'. In FICC, GSD and MBSD maintain a pass-through MtM process whereby it collects MTM debits from those Members with debits and passes those to the Members with MTM credits.
	Special Charge		USD \$MM	6,473	1,876	228	GSD includes: Back Test Charges, Intraday Supp. Fund Deposit, Minimum Deposit, and Special Charges MBSD includes: Back Test Charges, Intraday MTM Charges, Intraday VaR Charges, Adequate Assurance, and Special Charges NSCC includes: Back Test Charges, Adequate Assurance, Intraday Mark-to-Market Charge, and Intraday VaR Charge.
	Other Charges		USD \$MM	0	4	875	GSD includes: Minimum Requirement Adjustments, Excess Capital Premium, and Falling Below Minimum Requirement MBSD includes: 6 Day Fails Interest, Excess Capital Premium, Falling Below Minimum Requirement, and Minimum Requirement Adjustments NSCC includes: Family Issued Securities, CNS Fails, Non-CNS Requirements, CF Premium, and Minimum Requirement Adjustments

APPENDIX- Revision Log					
Report Date	Revision Date	Disclosure Reference	Reported Data	Revised Data	Revision Comments
12/31/22	8/30/23	18.1.3.1 and 18.1.3.2 (NSCC)	146 and 2	145 and 3	Revision of initially reported Number of domestic and foreign Participants after reclassification of a NSCC member
3/31/23	8/30/23	18.1.3.1 and 18.1.3.2 (NSCC)	146 and 2	145 and 3	Revision of initially reported Number of domestic and foreign Participants after reclassification of a NSCC member