



FIXED INCOME CLEARING CORPORATION

AND

NATIONAL SECURITIES CLEARING CORPORATION

PUBLIC QUANTITATIVE DISCLOSURES FOR CENTRAL COUNTERPARTIES

Q4 2024

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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

Q4 2024 SUPPLEMENTAL EXPLANATORY NOTE

Management Note

The U.S. equity markets rose during the fourth quarter of 2024, with the S&P 500 index increasing approximately 2.15%. Treasury yields built on the upward momentum, with the 10-year U.S. Treasury yield increased from 3.74% at the beginning of October to 4.58% at year end.

FICC-Government Securities Division (GSD)

At the end of the fourth quarter of 2024, GSD’s 12-month backtesting coverage level was 99.7%. The 1-month coverage ratio at GSD was 99.47% for October, 99.92% for November, and 100.00% for December. The largest deficiency for the quarter totaled \$49.0MM observed on 10/01/2024 and was driven by market movement. The median backtesting deficiency for the quarter was \$7.6MM.

FICC-Mortgage-Backed Securities Division (MBSD)

At the end of the fourth quarter of 2024, MBSD’s 12-month backtesting coverage level was 99.7%. The 1-month coverage ratio at MBSD was 99.70% for October, 100.00% for November, and 99.22% for December. The largest deficiency for the quarter totaled \$5.8MM observed on 10/01/2024 and was driven by positions change. The median backtesting deficiency for the quarter was \$88K.

National Securities Clearing Corporation (NSCC)

At the end of the fourth quarter of 2024, NSCC’s 12-month backtesting coverage level was 99.9%, with the 1-month coverage ratio for October at 99.93%, November at 99.73%, and December at 99.85%. The largest deficiency for the quarter was \$129.6MM, which occurred on 12/11/2024, driven by after-hours trading activity. The median backtesting deficiency for the quarter was \$5.3MM.

Q4 2024 SUPPLEMENTAL EXPLANATORY NOTE

Liquidity Results

GSD, MBSD, and NSCC did not experience a default event nor did any Member fail to satisfy payment obligations in Q4 2024. Two simulated default liquidity sufficiency shortfalls were observed for NSCC in Q4 2024. Further details are below.

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 plus funds-only settlement ("FOS"). For NSCC, the values are estimated liquidity obligations that are based on obligations throughout the settlement cycle plus the Long Allocation and Cross Account Liquidity Methodology ("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 obligations 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 considered as potential risk mitigation.

NSCC observed two simulated default liquidity sufficiency shortfalls during the December index rebalancing period, \$146.61MM and \$7.06BN respectively. The simulated shortfalls were addressed by the payment of a Supplemental Liquidity Deposit ("SLD") along with OCC's commitment to provide liquidity resources associated with OCC activity, in the form of a Guaranty Substitution Payment under the Amended and Restated Stock Options and Futures Settlement Agreement (the "OCC-NSCC Accord"), in the event of a member default. NSCC uses SLD, a payment obligation, determined by whether the daily liquidity obligation 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 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 held SLD on deposit for four business dates in Q4. 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	106		126	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	65,499	11,118	8,884	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 May 28, 2024, the US cash equities markets moved to a T+1 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	76,141	12,975	10,270	
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	1,020	83	N/A	
Disclosure 4.3 - Value of pre-funded default resources (excluding initial and retained variation margin) held for each clearing service								
4.3.1.1	Cash deposited at a central bank of issue of the currency concerned	Pre Haircut	Quarterly/ Quarter End	USD \$MM	16,920	3,950	9,176	
4.3.1.2		Post Haircut		USD \$MM	16,920	3,950	9,176	
4.3.2.1	Cash deposited at other central banks	Pre Haircut		USD \$MM	0	0	0	

Disclosure Reference	Disclosure Description		Frequency	Data Type	FICC		NSCC	Explanatory Notes
					GSD	MBSD		
4.3.2.2		Post Haircut		USD \$MM	0	0	0	
4.3.3.1	Secured cash deposited at commercial banks (including reverse repo)	Pre Haircut		USD \$MM	0	0	0	
4.3.3.2		Post Haircut		USD \$MM	0	0	0	
4.3.4.1	Unsecured cash deposited at commercial banks	Pre Haircut		USD \$MM	500	125	350	See Explanatory Note from 4.1
4.3.4.2		Post Haircut		USD \$MM	500	125	350	
4.3.4.1	Unsecured cash invested in Money Market Mutual Funds	Pre Haircut		USD \$MM	0	0	0	See Explanatory Note from 4.1
4.3.4.2		Post Haircut		USD \$MM	0	0	0	
4.3.4.1	Unsecured cash invested in US Treasury Bills	Pre Haircut		USD \$MM	0	0	0	See Explanatory Note from 4.1
4.3.4.2		Post Haircut		USD \$MM	0	0	0	
4.3.5.1	Non-Cash Sovereign Government Bonds - Domestic	Pre Haircut		USD \$MM	50,872	9,142	736	See Explanatory Note from 4.1
4.3.5.2	Non-Cash Sovereign Government Bonds - Domestic; Reported as at quarter end; Pre-Haircut and Post-Haircut	Post Haircut		USD \$MM	48,956	8,813	715	
4.3.6.1	Non-Cash Sovereign Government Bonds - Other	Pre Haircut	Quarterly/ Quarter End	USD \$MM	0	0	0	
4.3.6.2	Non-Cash Sovereign Government Bonds - Other; Reported as at quarter end; Pre-Haircut and Post-Haircut	Post Haircut		USD \$MM	0	0	0	
4.3.7.1	Non-Cash Agency Bonds	Pre Haircut		USD \$MM	10,058	69	0	See Explanatory Note from 4.1
4.3.7.2	Non-Cash Agency Bonds; Reported as at quarter end; Pre-Haircut and Post-Haircut	Post Haircut		USD \$MM	9,016	62	0	
4.3.8.1	Non-Cash State/municipal bonds	Pre Haircut		USD \$MM	0	0	0	
4.3.8.2	Non-Cash State/municipal bonds; Reported as at quarter end; Pre-Haircut and Post-Haircut	Post Haircut		USD \$MM	0	0	0	
4.3.9.1	Non-Cash Corporate bonds	Pre Haircut		USD \$MM	0	0	0	
4.3.9.2	Non-Cash Corporate bonds; Reported as at quarter end; Pre-Haircut and Post-Haircut	Post Haircut		USD \$MM	0	0	0	
4.3.10.1	Non-Cash Equities	Pre Haircut		USD \$MM	0	0	0	
4.3.10.2	Non-Cash Equities; Reported as at quarter end; Pre-Haircut and Post-Haircut	Post Haircut		USD \$MM	0	0	0	
4.3.11.1	Non-Cash Commodities - Gold	Pre Haircut		USD \$MM	0	0	0	
4.3.11.2	Non-Cash Commodities - Gold; Reported as at quarter end; Pre-Haircut and Post-Haircut	Post Haircut		USD \$MM	0	0	0	

Disclosure Reference	Disclosure Description		Frequency	Data Type	FICC		NSCC	Explanatory Notes
					GSD	MBSD		
4.3.12.1	Non-Cash Commodities - Other	Pre Haircut		USD \$MM	0	0	0	
4.3.12.2	Non-Cash Commodities - Other; Reported as at quarter end; Pre-Haircut and Post-Haircut	Post Haircut		USD \$MM	0	0	0	
4.3.13.1	Non-Cash Commodities - Mutual Funds / UCITs	Pre Haircut		USD \$MM	0	0	0	
4.3.13.2	Non-Cash Commodities - Mutual Funds / UCITs; Reported as at quarter end; Pre-Haircut and Post-Haircut	Post Haircut		USD \$MM	0	0	0	
4.3.14.1	Non-Cash Commodities - Other	Pre Haircut		USD \$MM	0	0	0	
4.3.14.2	Non-Cash Commodities - Other; Reported as at quarter end; Pre-Haircut and Post-Haircut	Post Haircut		USD \$MM	0	0	0	
4.3.15.1	In total. Reported as at quarter end; Pre-Haircut and Post-Haircut	Pre Haircut		USD \$MM	78,351	13,286	10,262	
4.3.15.2		Post Haircut		USD \$MM	75,393	12,950	10,241	

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.
4.4.3.1	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	3,855	3,022	2,993	Amounts correspond to largest Cover 1 ratio. This may not correspond to the largest stress loss amount observed during the look-back period.
4.4.3.2			Mean Avg/ Previous 12 Months		USD \$MM	2,622	2,023	622	
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	
4.4.6.1	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	412	11	123	Amount represents Peak/Average VaR model back test results.
4.4.6.2			Avg/ Previous 12 Months		USD \$MM	115	11	10	
4.4.7.1	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	6,255	4,608	4,360	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.

Disclosure Reference	Disclosure Description		Frequency	Data Type	FICC		NSCC	Explanatory Notes
					GSD	MBSD		
4.4.7.2		Mean Avg/ Previous 12 Months		USD \$MM	4,610	3,480	903	
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.			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)	Amt Exceeded/ Previous 12 Months		USD \$MM	0	0	0	
4.4.10.1	For each clearing service, what was the actual largest aggregate credit exposure (in excess of initial margin) to any two participants and their affiliates (including transactions cleared for indirect participants)? (Previous 12 Months)	Peak Day/ Previous 12 Months		USD \$MM	540	18	128	Amount represents Peak/Average VaR model back test results.
4.4.10.2		Avg/ Previous 12 Months		USD \$MM	165	18	13	
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	See Explanatory Notes	See Explanatory Notes	See Explanatory Notes	GSD: https://www.dtcc.com/-/media/Files/Downloads/legal/risk-management/GSD-Haircut-Schedule-Current.pdf MBSD: https://www.dtcc.com/-/media/Files/Downloads/legal/risk-management/MBSD-Haircut-Schedule-Current.pdf NSCC: https://www.dtcc.com/-/media/Files/Downloads/legal/risk-management/NSCC-Haircut-Schedule-Current.pdf
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	99.00%	99.00%	99.00%	
5.3.2	Assumed holding/liquidation period for the assets accepted			Bus. Days	3	3	3	See Explanatory Note from 4.4.2

Disclosure Reference	Disclosure Description		Frequency	Data Type	FICC		NSCC	Explanatory Notes	
					GSD	MBSD			
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 3 days. Mortgages total of 62 days. Agency 0 days.	Treasury total of 3 days. Mortgages total of 62 days. Agency 0 days.	Treasury total of 3 days. Mortgages total of 62 days. Agency 0 days.	See 5.1 for list of eligible assets and the respective haircuts applied. For Treasuries, based on the “10 years +” lookback period (including 2008 and onward), 1 days for 20 yrs. and 3 days for 30 yrs. tenors were observed, where a change in rate caused a breach of respective HC. The total day count for Treasuries is 3 (of which 1 days caused a breach for both tenors, 20 & 30 yrs.). For Mortgages there were 62 days in Q4 2024 where at least one breach occurred. In total, the stress return (loss) for 24 CUSIPs under two historic stress scenarios breached the current HC. For Agencies no breaches were observed under current HCs.	
Disclosure 6.1 - Total initial margin required split by house, client gross, client net and total (if not segregated)									
6.1.1.1	Total initial margin required split by house, client gross, client net and total (if not segregated)		House (Net)	Quarter End	USD \$MM	65,499	11,118	8,884	See Explanatory Note from 4.1.4 - Not applicable. GSD/MBSD/NSCC does not hold client margin. See NSCC/FICC's Disclosure Frameworks, Principle 14 discussion.
6.1.1.2			Client (Gross)		USD \$MM	N/A	N/A	N/A	
6.1.1.3			Client (Net)		USD \$MM	N/A	N/A	N/A	
6.1.1.4			Total		USD \$MM	65,499	11,118	8,884	
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									

Disclosure Reference	Disclosure Description	Frequency	Data Type	FICC		NSCC	Explanatory Notes	
				GSD	MBSD			
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								
6.5.1.1	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	92	41	28	
6.5.2	Number of observations ([Number of accounts * number of days])	Previous 12 Months		Count	31,430	15,239	32,101	
6.5.3	Achieved coverage level [aggregate CCP-level backtest coverage]	Previous 12 Months		Percentage	99.71%	99.73%	99.91%	Aggregate CCP-level backtest coverage (SEC Mthly Back Test report)
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	441	38	240	Peak Coverage Level at CC Level over the last 12-month at the quarter-end
6.5.5		Average Size/ Previous 12 Months		USD \$MM	24	2	22	Average magnitude of Backtest deficiencies over last 12 months
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	10,679	548	557	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 and include both CNS and SFT MTM debits.
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	14,505	1,817	3,954	See Explanatory Note from 6.6
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	7,574	2,189	7,230	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		

Disclosure Reference	Disclosure Description		Frequency	Data Type	FICC		NSCC	Explanatory Notes
					GSD	MBSD		
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	16,920	3,950	22,667	
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	1,350	
		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	108,418	80,574	9,600	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	0	For GSD and MBSD, the portfolio of a defaulting member, comprised of highly marketable collateral would also be available as a liquidity resource. Value and composition of that portfolio would vary by day and by member. For GSD/MBSD, amount represents the Repo Value of Underlying Securities. NSCC's Supplemental Liquidity Deposit ("SLD") program provides for additional rules-based liquidity. Option expiry settlement cycles typically present elevated liquidity needs to NSCC. Sizing of supplemental liquidity resources will vary based on the historical activity presented by NSCC's largest members as well as market dynamics during the current settlement cycle. As of 12/31/24 there were no SLD deposits on hand. Please see Supplemental Note for additional information. Resources reported in Section 7.1 are as of 12/31/24 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	No schedule of payments or priority for allocating payments exists.

Disclosure 7.2 - Size and composition of any supplementary liquidity risk resources for each clearing service above those qualifying liquid resources above.

Disclosure Reference	Disclosure Description	Frequency	Data Type	FICC		NSCC	Explanatory Notes
				GSD	MBSD		
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	77,969	34,707	57,403	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	2	See Supplemental Note
7.3.3			USD \$MM	0	0	7,065	Where 7.3.2 is greater than 1, the largest exceedance is reported. See Supplemental Note.
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	83,399	34,707	57,403	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	77,969	34,707	57,403	See Supplemental Note
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	2	See Supplemental Note
7.3.7			USD \$MM	0	0	7,065	Where 7.3.6 is greater than 1, the largest exceedance is reported. See Supplemental Note.

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	100.00%	100.00%	100.00%	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	100.00%	100.00%	100.00%	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	

Disclosure Reference	Disclosure Description	Frequency	Data Type	FICC		NSCC	Explanatory Notes
				GSD	MBSD		
12.2.3	Percentage of settlements by volume effected using a PvP settlement mechanism		Percentage	N/A	N/A	N/A	
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	Percentage	N/A	N/A	N/A	Not applicable for the US cash markets. GSD/MBSD/NSCC does not maintain separate "house" and "client" accounts for its Members. See NSCC and FICC Disclosure Frameworks, Principle 14 discussion.
14.1.2	Total Client Positions held in omnibus client-only accounts, other than LSOC accounts		Percentage	N/A	N/A	N/A	
14.1.3	Total Client Positions held in legally segregated but operationally comingled (LSOC) accounts		Percentage	N/A	N/A	N/A	
14.1.4	Total Client Positions held in comingled house and client accounts		Percentage	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	470	683	Quarter-end	
15.1.2	Six months of current operating expenses		USD \$MM	212	252	Quarter-end	
Disclosure 15.2 - General business risk; Financial Disclosures							
15.2.1	Total Revenue	Annual	USD \$MM	498	701	Calculated on a trailing 12-month basis	
15.2.2	Total Expenditure		USD \$MM	415	511	Calculated on a trailing 12-month basis	
15.2.3	Profits		USD \$MM	83	189	Calculated on a trailing 12-month basis	
15.2.4	Total Assets		USD \$MM	91,955	25,819	Quarter-end	
15.2.5	Total Liabilities		USD \$MM	91,485	25,136	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			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	99.67%		98.58%	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	17,420	4,075	9,526	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 \$MM	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	100.00%	100.00%	100.00%	
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	97.13%	96.93%	96.33%	
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	2.87%	3.07%	3.67%	
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	100.00%	100.00%	100.00%	All investments are in USD
16.2.9	Weighted average maturity of these cash deposits (including reverse repo) and money market funds		Bus. Days	1	1	1	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	

Disclosure Reference	Disclosure Description	Frequency	Data Type	FICC		NSCC	Explanatory Notes
				GSD	MBSD		
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 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
16.3.3.1	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	
16.3.3.2		1D_1W		USD \$MM	N/A	N/A	N/A	
16.3.3.3		1W_1M		USD \$MM	N/A	N/A	N/A	
16.3.3.4		1M_1Y		USD \$MM	N/A	N/A	N/A	
16.3.3.5		1Y_2Y		USD \$MM	N/A	N/A	N/A	
16.3.3.6		2Y+		USD \$MM	N/A	N/A	N/A	
16.3.4.1	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	
16.3.4.2		1D_1W	USD \$MM	0	0	0		
16.3.4.3		1W_1M	USD \$MM	0	0	0		
16.3.4.4		1M_1Y	USD \$MM	0	0	0		
16.3.4.5		1Y_2Y	USD \$MM	0	0	0		
16.3.4.6		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							
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Disclosure Reference	Disclosure Description	Frequency	Data Type	FICC		NSCC	Explanatory Notes
				GSD	MBSD		
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	99.60%	99.60%	99.60%	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	99.97%		99.84%	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	0 / 0:00:00			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.
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 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	147	74	67	FICC does not distinguish membership categories between members that clear for others and members that are self-clearing. Accordingly, the total number of FICC members are reported as general clearing members and will include all GSD Netting Members, GSD CCIT Members, and MBSD Clearing Members. For NSCC, general clearing members are full service clear for others members.

Disclosure Reference	Disclosure Description		Frequency	Data Type	FICC		NSCC	Explanatory Notes	
					GSD	MBSD			
18.1.1.2	Number of direct clearing members			Count	0	0	81	FICC does not distinguish membership categories between members that clear for others and members that are self-clearing. Accordingly, the total number of FICC members are reported as general clearing members and will include all GSD Netting Members, GSD CCIT Members, and MBSD Clearing Members. For NSCC, direct clearing members are full service self-clearing members.	
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	50	15	15	Bank participants include entities classified as Bank or Trust Companies	
18.1.2.4	Number of other participants (Describe in comments)			Count	97	59	133	Other participant types include Broker/Dealer, Fund Company, Futures Commission Merchant, Government Securities Issuer, Insured Credit Union, Central Securities Depository (CSD), Clearing Agency/Stock Exchange, and Other	
18.1.3.1	Number of domestic participants			Count	105	70	145	Domestic participants include all members whose country of incorporation/formation is the US. US Branches/Agencies of Non-US legal entities are considered to have a Non-US country of incorporation/formation and will be considered Non-US (foreign).	
18.1.3.2	Number of foreign participants			Count	42	4	3	Foreign participants include all members whose country of incorporation/formation is a country other than the US. US Branches/Agencies of Non-US legal entities are considered to have a Non-US country of incorporation/formation and will be considered Non-US (foreign).	
Disclosure 18.2 - Open Position Concentration									
18.2.1.1	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	
18.2.1.2					Peak End of Day	Percentage	N/A	N/A	N/A
18.2.2.1	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	33.16%	50.53%	36.57%	
18.2.2.2					Peak End of Day	Percentage	36.80%	53.66%	39.95%

Disclosure Reference	Disclosure Description		Frequency	Data Type	FICC		NSCC	Explanatory Notes
					GSD	MBSD		
18.2.3.1	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	49.48%	71.86%	53.34%	
18.2.3.2		Peak End of Day		Percentage	55.56%	75.35%	58.70%	
Disclosure 18.3 - Initial Margin Concentration								
18.3.1.1	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	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.
18.3.1.2	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 and Peak over the quarter	Peak End of Day		Percentage	N/A	N/A	N/A	
18.3.2.1	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	40.41%	48.74%	29.65%	
18.3.2.2	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 and Peak over the quarter	Peak End of Day		Percentage	41.96%	57.53%	33.30%	
18.3.3.1	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	59.50%	70.54%	45.24%	
18.3.3.2	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 and Peak over the quarter	Peak End of Day		Percentage	61.01%	75.33%	51.08%	
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.

Disclosure Reference	Disclosure Description	Frequency	Data Type	FICC		NSCC	Explanatory Notes
				GSD	MBSD		
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 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	5.73%	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	0.57%	N/A	N/A	During the 4th Quarter of 2024, the average end-of-day savings rate for participating firms receiving savings in the CME-FICC program was 57%. The average daily savings in dollar amounts was \$392.2M during the 4th quarter. There were 10 firms participating in the CME-FICC program during the quarter.
Disclosure 23.1 - Disclosure of rules, key procedures, and market data; Average Daily Volumes							

Disclosure Reference	Disclosure Description		Frequency	Data Type	FICC		NSCC	Explanatory Notes
					GSD	MBSD		
23.1.1.1	Average Daily Volumes by Asset Class, CCY and OTC/ETD	OTC	Quarterly		517,783	15,655	133,208,078	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.
23.1.1.2		NSCC_Exchange			N/A	N/A	104,707,401	
23.1.2.1	Average Notional Value of trades cleared by Asset Class, CCY and OTC/ETD	OTC		USD \$MM	8,900,101	451,217	1,630,963	
23.1.2.2		NSCC_Exchange		USD \$MM	N/A	N/A	719,139	
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	2,818	455	117	Values located in the FICC and NSCC financial statements, under the Notes to Financial Statements – Guarantees http://www.dtcc.com/legal/financial-statements .
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	
Disclosure PRC 1 - Payment Risk Committee Disclosure 1 - Concentration Measures								
	Initial Margin Required	Top 3 Members	Quarterly/ Quarter End	USD \$MM	13,286	4,130	1,979	
	Number of Members with x% of Initial Margin Requirement	> 20%		Count	0	0	0	Aggregated by deposit account.
		15% to 20%		Count	0	1	0	
		10% to 15%		Count	0	1	0	
		5% to 10%		Count	3	3	3	
		< 5%		Count	189	103	145	
	Total Initial Margin Posted (Market Value)	Total	USD \$MM	78,351	13,286	10,262		
Disclosure PRC 2 - Payment Risk Committee Disclosure 2 - Initial Margin Detail								
	Initial Margin Breakdown by Component	VaR / Volatility	Quarterly/ Quarter End	USD \$MM	60,747	10,317	4,436	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.

Disclosure Reference	Disclosure Description		Frequency	Data Type	FICC		NSCC	Explanatory Notes
					GSD	MBSD		
		Coverage Component (CC)		USD \$MM	N/A	N/A	101	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	2,536	409	228	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	60	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.
		Margin Req. Differential (MRD)		USD \$MM	N/A	N/A	2,978	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	N/A	449	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	866	388	150	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.

Disclosure Reference	Disclosure Description		Frequency	Data Type	FICC		NSCC	Explanatory Notes
					GSD	MBSD		
		Other Charges		USD \$MM	0	4	543	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-Return Premiums, Debit Independent Amounts, and Minimum Requirement Adjustments
		Portfolio Differential		USD \$MM	1,290	N/A	N/A	Portfolio Differential Charge is designed to mitigate the risks presented to GSD by period-over-period fluctuations in a Member's Margin Portfolio(s) that may occur between the collections of Member's GSD Required Fund Deposits

CPMI-IOSCO Quantitative Disclosures - DTCC

APPENDIX- Revision Log					
Report Date	Revision Date	Disclosure Reference	Reported Data	Revised Data	Revision Comments
12/31/2022	8/30/2023	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
3/31/2023	8/30/2023	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
9/30/2024	1/14/2025	4.3.5 (Pre Haircut)	47911, 9043, 804	43940, 7771, 817	Values correspond to FICC/GSD, FICC/MBSD and NSCC respectively
9/30/2024	1/14/2025	4.3.5 (Post Haircut)	461967, 8746, 781	42382, 7533, 793	Values correspond to FICC/GSD, FICC/MBSD and NSCC respectively
9/30/2024	1/14/2025	4.3.7 (Pre Haircut)	1048, 40, 0	9826, 44, 0	Values correspond to FICC/GSD, FICC/MBSD and NSCC respectively
9/30/2024	1/14/2025	4.3.7 (Post Haircut)	9406, 36, 0	8821, 40, 0	Values correspond to FICC/GSD, FICC/MBSD and NSCC respectively
9/30/2024	1/14/2025	4.3.15 (Pre Haircut)	76047, 12204, 10812	714241, 10935, 10826	Values correspond to FICC/GSD, FICC/MBSD and NSCC respectively
9/30/2024	1/14/2025	4.3.15 (Post Haircut)	73261, 11903, 10789	68861, 10693, 10802	Values correspond to FICC/GSD, FICC/MBSD and NSCC respectively