



FIXED INCOME CLEARING CORPORATION

AND

NATIONAL SECURITIES CLEARING CORPORATION

PUBLIC QUANTITATIVE DISCLOSURES FOR CENTRAL COUNTERPARTIES

Q1 2022

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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

Q1 2022 SUPPLEMENTAL EXPLANATORY NOTE

Management Note

The U.S. equity markets fell in the first quarter as interest rate and inflation fears were compounded by Russia's invasion of Ukraine. The S&P 500 Index suffered its worst quarterly loss since the start of the COVID-19 Pandemic. The Federal Reserve raised interest rates by 25 basis points and the U.S. economy decreased to start the year, as reductions in inventory investment, exports, and government spending contributed to the contraction. The U.S. 10-year Treasury yield increased sharply during the first quarter of 2022, from 1.52% to 2.32% due to inflationary fears and anticipated monetary policy tightening by The Federal Reserve. The U.S. Treasury curve flattened as the U.S. 2-year yield increased from 0.73% to 2.28% and the spread between U.S. 2-year yield and U.S. 10-year yield narrowed from 0.79% to 0.04%.

Clearing Fund Backtesting Results

At DTCC, backtesting is conducted to measure the sufficiency of the overall Clearing Fund coverage by comparing a Member's Required Deposit to the 3-day observed P&L for the Member's portfolio and aggregated into the CCP-level backtesting coverage data that is provided in this disclosure. The backtesting assesses the adequacy of a 3-day liquidation period assumption in the event of Member default, and all VaR models at DTCC are currently calibrated at a minimum of 99% coverage.

FICC-Mortgage-Backed Securities Division (MBSD)

At the end of the first quarter of 2022, MBSD's 12-month backtesting coverage level was 99.8%. The 1-month coverage ratio at MBSD was 99.7% for January, 99.8% for February, and 99.7% for March, amid inflationary fears and market volatility triggered by the Russian invasion of Ukraine. The median backtesting deficiency for the guarter was \$2.0 million.

FICC-Government Securities Division (GSD)

At the end of the first quarter of 2022, GSD's 12-month backtesting coverage level was 99.3%. The 1-month coverage ratio at GSD was 99.8% for January, 99.0% for February, and 96.5% for March, trending lower due to inflationary fears and market volatility triggered by the Russian invasion of Ukraine. The median backtesting deficiency for the quarter was \$1.5 million.

National Securities Clearing Corporation (NSCC)

At the end of the first quarter of 2022, NSCC's 12-month backtesting coverage level was 99.7%, with the 1-month coverage ratio for January at 99.7%, 99.8% for February, and 99.4% for March. The median backtesting deficiency for the quarter was \$4.7 million. The largest deficiency incurred during the quarter was mainly driven by a concentrated security exhibiting idiosyncratic risk.

Q1 2022 SUPPLEMENTAL EXPANATORY NOTE CONT'D

Liquidity Results

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 has a diversified set of liquidity resources and uses metrics to assess the implications for sizing NSCC's liquidity resources.

NSCC received regulatory approval of a rule change to collect, when applicable, daily Supplemental Liquidity Deposits ("SLD") to NSCC's Clearing Fund on June 20, 2021 and implemented it on June 23, 2021. An SLD payment obligation is determined if the 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.

NSCC had one liquidity shortfall during Q1 2022 of \$135MM on DOI 1/4/2022 that was satisfied by a \$135MM SLD call, which mitigated the exposure. The most significant liquidity exposures during the quarter coincided with options expiry dates which continue to have the largest impact on the liquidity profile. 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 collected SLD six times in Q1. SLD is part of NSCC's QLR that 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. With SLD rule change, NSCC is able to address its liquidity exposure each business day based on Members' settlement activity and limit liquidity shortfalls due to forecasts of upcoming liquidity exposures based on historical activity. 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.

The SLD collections fully mitigated NSCC liquidity exposure. The modified SLD rule allows intraday cash collections and also start-of-day SLD collections. For risk reporting and alignment to the QLR stress assumptions, any start-of-day SLD collections are reported as QLR shortfalls for that business day and do not account for additional liquidity resources in line with the additional option activity when NSCC assumes the trade guaranty from the OCC.

At FICC, there were no payment obligations greater than qualifying liquid resources during the quarter.

Disclosure	Disclosure Description		Fraguancy	Data Type	F	icc	NSCC	Explanatory Notes
Reference	Disclosure Description		Frequency	Data Type	GSD	MBSD	NSCC	Explanatory Notes
Disclosu	ure 4.1 - Total value of default resources (excluding initial and retained	l variation margin), split by cle	earing service if de	fault funds are s	segregated by clo	earing service		
4.1.1	Prefunded - Own Capital Before		Quarterly/ Quarter End	USD \$MM	7	0.0	106.0	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
4.1.2	Prefunded - Own Capital Alongside			USD \$MM	N/A	N/A	N/A	generally equal to 50% of the Company's general business risk capital requirement.
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	19,581	9,833	12,610	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
4.1.5	Prefunded - Aggregate Participant Contributions - Post-Haircut Posted			USD \$MM	27,056	13,039	13,505	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.
4.1.6	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 def defaults)	ault (or initial round of participant		USD \$MM	N/A	N/A	N/A	
4.1.9	Committed - Aggregate participant commitments to replenish the default fund to deduct for round of participant defaults) after the initial participant default (or round of participant defaults).			USD \$MM	N/A	N/A	N/A	
4.1.10	Committed - Other			USD \$MM	N/A	N/A	N/A	
Disclosu	ure 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 the company of the compa	g CCP" under relevant law.	Quarterly	USD \$MM	581	N/A	N/A	
Disclosu	are 4.3 - Value of pre-funded default resources (excluding initial and re	etained variation margin) held	for each clearing	service				
4.3.1	Cash deposited at a central bank of issue of the currency concerned	Pre Haircut	Quarterly/	USD \$MM	10,355	2,125	11,920	
		Post Haircut	Quarter End	USD \$MM	10,355	2,125	11,920	
4.3.2	Cash deposited at other central banks	Pre Haircut		USD \$MM	0	0	0	
		Post Haircut		USD \$MM	0	0	0	
4.3.3	Secured cash deposited at commercial banks (including reverse repo)	Pre Haircut		USD \$MM	0	0	0	
4.3.4	Unsecured cash deposited at commercial banks	Post Haircut Pre Haircut		USD \$MM USD \$MM	520	145	0 821	See Explanatory Note from 4.1
4.5.4	onsecured eash deposited at commercial paths	Post Haircut		USD \$MM	520	145	821	See Explanatory Note from 4.1
4.3.4.2	Unsecured cash invested in Money Market Mutual Funds	Pre Haircut		USD \$MM	0	0	0	See Explanatory Note from 4.1
		Post Haircut		USD \$MM	0	0	0	
4.3.4.3	Unsecured cash invested in US Treasury Bills	Pre Haircut		USD \$MM	0	0	0	See Explanatory Note from 4.1
		Post Haircut		USD \$MM	0	0	0	
4.3.5	Non-Cash Sovereign Government Bonds - Domestic	Pre Haircut		USD \$MM	14,821	10,472	786	See Explanatory Note from 4.1
		Post Haircut		USD \$MM	14,269	10,169	765	

losure	Disclosure Description		Frequency	Data Type	F	сс	NSCC	Explanatory Notes
ference	<u> </u>			GSD	MBSD	555	Explanator, 19865	
Disclosu	re 4.3 - Value of pre-funded default resources (excluding initial	and retained variation margin) held	d for each clearing	service - Cont'd				
						T		
4.3.6	Non-Cash Sovereign Government Bonds - Other	Pre Haircut	Quarterly/	USD \$MM	0	0	0	
		Post Haircut	Quarter End	USD \$MM	0	0	0	
4.3.7	Non-Cash Agency Bonds	Pre Haircut		USD \$MM	2,071	649	0	See Explanatory Note from 4.1
		Post Haircut		USD \$MM	1,926	603	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.	Pre Haircut		USD \$MM	27,767	13,391	13,527	
	Reported as at quarter end; Pre-Haircut and Post-Haircut	Post Haircut		USD \$MM	27,071	13,043	13,505	

Disclosu	re 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	Peak Day/ Previous 12 Months		USD \$MM	2,080	4,542	2,034	Amounts correspond to largest Cover 1 ratio. This may not correspond to the largest stress loss amount observed during the look-back period.
	(including transactions cleared for indirect participants) in extreme but plausible market conditions. (Previous 12 Months)	Mean Avg/ Previous 12 Months		USD \$MM	1,519	2,948	588	In October 2020, a rule filing related to MBSD's stress testing program was approved by regulators, henceforth MBSD results from October onwards are derived from a model that includes changes described in the rule filing.
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	Peak Day/ Previous 12 Months		USD \$MM	41	8	186	Amount represents Peak/Average VaR model back test results.
	participants) (Previous 12 Months)	Avg/ Previous 12 Months		USD \$MM	8	5	15	
I	or each clearing service, the estimated largest aggregate stress loss (in excess of initial margin) hat would be caused by the default of any two participants and their affiliates (including	Peak Day/ Previous 12 Months		USD \$MM	3,292	7,599	3,209	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.
	ransactions cleared for indirect participants) in extreme but plausible market conditions Previous 12 Months)	Mean Avg/ Previous 12 Months		USD \$MM	2,207	4,737	838	In October 2020, a rule filing related to MBSD's stress testing program was approved by regulators, henceforth MBSD results from October onwards are derived from a model that includes changes described in the rule filing.

	Disclosure Description	Frequency	Data Type		FICC NSCC		Explanatory Notes	
erence	Disclosure Description		riequency	Data Type	GSD MBSD		NSCC	EXPIANALOTY NOTES
closu	ure 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 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.
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	
1.10	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	46	8	221	Amount represents Peak/Average VaR model back test results.
		Avg/ Previous 12 Months		USD \$MM	10	5	18	
closu	ure 5.1 - Assets eligible as initial margin, and the respective haircuts applied	i						
5.1.1	Assets eligible as initial margin and the respective haircuts applied		Update as changes	Website/	http://www.dtcc	http://www.dtcc	http://www.dtcc	GSD: Section: "SCHEDULE OF HAIRCUTS FOR ELIGIBLE CLEARING FUND SECURITIES"
			are made	Hyperlink		.com/~/media/Fil		MBSD: Section: "SCHEDULE OF HAIRCUTS FOR ELIGIBLE CLEARING FUND SECURITIES"
					es/Downloads/le			NSCC: Section: "PROCEDURE XV", "III. Collateral Value of Eligible Clearing Fund Securities"
				gal/rules/ficc_go				
					v_rules.pdf	sd_rules.pdf	les.pdf	
sclosu	ure 5.2 - Assets Eligible for pre-funded participant contributions to the defa	ult resources, and the re	spective haircuts a	oplied (if differ	ent from 5.1)			
5.2.1	A							
- 1		spective haircuts applied (if	Update as changes		See 5.1	See 5.1	See 5.1	
	Assets Eligible for pre-runded participant contributions to the default resources, and the re different from 5.1)	spective haircuts applied (if	Update as changes are made		See 5.1	See 5.1	See 5.1	
		spective haircuts applied (if			See 5.1	See 5.1	See 5.1	
closu	different from 5.1)	spective haircuts applied (if		Percentage	See 5.1	See 5.1	See 5.1	
	ure 5.3 - Results of testing of haircuts	spective haircuts applied (if	are made	Percentage Bus. Days				See Explanatory Note from 4.4.2
5.3.1	ure 5.3 - Results of testing of haircuts Confidence interval targeted through the calculation of haircuts	spective haircuts applied (if	are made	-	99%	99%	99%	See Explanatory Note from 4.4.2 For Treasury and Agencies the lookback period, "10+ years", starts Jan 1, 2008 and continues to th last day of this quarter tested & reported herewith. Similar to current scenario selection or retent approach, where Historic Stress Scenario Dates are selected from a timespan of more than 10 year (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.

OI WII-I	OSCO Quantitative Disclosures - DTCC							AS OF Watch 31, 2022				
Disclosure	Disclosure Description		Frequency	Data Type	F	ICC	NSCC	Explanatory Notes				
Reference	Disclosure Description		rrequericy	Data Type	GSD	MBSD	Noce	Explanatory Notes				
Disclosu	re 6.1 - Total initial margin required split by house, client gross, client net and	d total (if not segregate	d)									
6.1.1	Total initial margin required split by house, client gross, client net and total (if not	House (Net)	Quarterly	USD \$MM	19,581	9,833	12,610	See Explanatory Note from 4.1.4				
	segregated)	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	Not applicable. GSD/MBSD/NSCC does not hold client margin. See NSCC/FICC's Disclosure				
		Total		USD \$MM	19,581	9,833	12,610	Frameworks, Principle 14 discussion.				
Disclosu	re 6.2 - For each clearing service, total initial margin required, split by house	and client (or combined	d total if not segre	gated)				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.				
Disclosu	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					
Disclosu	ıre 6.4 - Type of initial margin model used (e.g. portfolio simulation or risk ag	gregation) for each clea	ring service and the	he key model d	esign parameter	s for each initial n	nargin model ap	plied to that clearing service				
6.4.1	Type of initial margin model used (e.g. portfolio simulation or risk aggregation) for each clearing	g service and the key model	, ,		Historical	Historical	Parametric					
	design parameters for each initial margin model applied to that clearing service		are made		Simulation +	Simulation +	VaR + Haircut					
					Haircut	Haircut						
	re 6.5 - Results of back-testing of initial margin. At a minimum, this should in											
6.5.1	Number of times over the past twelve months that margin coverage held against any account fell below the actual marked-to-market exposure of that member account – based on daily back-testing results	Once-a-day/ Previous 12 Months	Quarterly	Count	209	25	90					
6.5.2	Number of observations ([Number of accounts * number of days])	Previous 12 Months		Count	29,656	16,251	31,698					
6.5.3	Achieved coverage level [aggregate CCP-level backtest coverage]	Previous 12 Months		Percentage	99.3%	99.8%	99.7%					
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	178	28	161					
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	9	3	13					
Disclosu	re 6.6 - Average Total Variation Margin Paid to the CCP by participants each b	ousiness										
6.6.1	Average Total Variation Margin Paid to the CCP by participants each business day	Average	Quarterly	USD \$MM	3,763	3,865	1,424	For GSD, VM is a cash pass-through process across the members; for MBSD and 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.				
Disclosu	re 6.7 - Maximum total variation margin paid to the CCP on any given busine	ss 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	6,687	8,042	6,218	See Explanatory Note from 6.6				
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				l	ļ			1				

sclosure						FICC		
ference	Disclosure Description		Frequency	Data Type			NSCC	Explanatory Notes
					GSD	MBSD		
Disclosu	re 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	2,571	2,677	9,523	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.
Disclosu	re 7.1 - Liquidity Risk							
7.1.1	State whether the clearing service maintains sufficient liquid resources to 'Cover 1' or 'Cover 2'		Quarterly/		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	Quarter End	USD \$MM	10,355	2,125	22,898	
7.1.3	of the currency concerned 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	Repo Only		USD \$MM	0	0	0	
7.1.5	deposited at commercial banks (including reverse repo) Size and composition of qualifying liquid resources for each clearing service; (d) Unsecured cash deposited at commercial banks	Commercial Bank Deposits		USD \$MM	520	145	1,866	
	cash deposited at commercial banks	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 comm for which collateral/security will be provided by the CCP if drawn) including committed foreign committed repos	·		USD \$MM	86,798	53,461	9,300	For FICC, amount represents the assigned total amount of rules-based facility, Capped Contingence Liquidity Facility ("CCLF") for the reported quarter. For NSCC, the amount represents a secured line credit with a syndicate of lenders.
7.1.7	Size and composition of qualifying liquid resources for each clearing service; (f) unsecured com which the CCP may draw without providing collateral/security)	mitted lines of credit (ie		USD \$MM	N/A	N/A	N/A	
7.1.8	Size and composition of qualifying liquid resources for each clearing service; (g) highly marketa custody and investments that are readily available and convertible into cash with prearranged arrangements even in extreme but plausible market conditions			USD \$MM	16,892	11,121	786	Amounts include Clearing Fund securities.
7.1.9	Size and composition of qualifying liquid resources for each clearing service; (h) other			USD \$MM	0	0	0	For GSD and MBSD, the portfolio of a defaulting member comprised of highly marketable collatera would also be available as a liquidity resource. Value and composition of that portfolio would vary day and by member. At quarter end, GSD observed \$39,593MM and MBSD observed \$1,051MM ir repo value of Underlying Securities. 3/31/22 was not an MBSD class-settlement day.
								For NSCC, Supplemental Liquidity Deposit ('SLD') program provides for additional rules-based liquidity resources. As of 3/31/22 there were no SLD deposits on hand. Please see Supplemental Note for additional information.
								Resources reported in Section 7.1 are as of 3/31/22 and do not correspond to the dates of the act 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, as policy, procedure, and governance arrangement around such decision making.	nd any applicable rule,			N/A	N/A	N/A	

sclosure	Disclosure Description	Frequency	Data Type	F	icc	- NSCC	Explanatory Notes
rence				GSD	MBSD	Nacc	Lapianatory Notes
Disclosu	re 7.2 - Size and composition of any supplementary liquidity risk resources for each clearing service a	above those qualif	fying liquid re	sources 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	GSD can use collateralized loan: from clearing banks as additiona liquidity resources	from clearing I banks as additional	NSCC can use collateralized loans/equity repo utilizing the cash market securities that were destined to defaulter as collateral.	
Disclosu	re 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	53,125	25,857	34,492	For GSD and MBSD, values are estimated liquidity obligations post netting that are based on trade that are due to settle the following business day. For NSCC, 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.
7.3.2	imber of business days, if any, on which the above amount exceeded its qualifying liquid resources (identified as in 7.1,	Quarterly	Bus. Days	0	0	1	See Supplemental Note
7.3.3	and available at the point the breach occurred), and by how much.		USD \$MM	0	0	135	
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	71,404	54,346	38,611	GSD/MBSD/NSCC did not experience a default event nor did any Member fail to satisfy payment obligations. NSCC reflects multi-day settlement obligations. For GSD and MBSD, values are estim liquidity obligations post netting that are based on trades that are due to settle the following business day. This total reflects, where relevant, intraday and multiday payment obligation 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.
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	53,125	25,857	34,492	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	1	See Supplemental Note
7.3.7	currency (as identified in 7.1 and available at the point the breach occurred), and by now indici-		USD \$MM	0	0	135	
Disclosu	re 12.1 - Percentage of settlements by value effected using a DvP, DvD or PvP settlement mechanism	1					
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 clea
12.1.2	Percentage of settlements by value effected using a DvD settlement mechanism		Percentage	N/A	N/A	N/A	services.
12.1.3	Percentage of settlements by value effected using a PvP settlement mechanism		Percentage	N/A	N/A	N/A	NSCC data provided with respect to CNS, NSCC's CCP service, which uses a model 2 DvP Settleme mechanism.
Disclosu	re 12.2 - Percentage of settlements by volume effected using a DvP, DvD or PvP settlement mechanis	sm					
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 clea
12.2.2	Percentage of settlements by volume effected using a DvD settlement mechanism	-	Percentage	N/A	N/A	N/A	services.
							NSCC data provided with respect to CNS, NSCC's CCP service, which uses a model 2 DvP Settleme

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closure ference	Disclosure Description	Frequency	Data Type -	GSD FI	MBSD	NSCC	Explanatory Notes
isclosu	re 13.1 - Quantitative information related to defaults						
12.1.1		A.1.1		A1/A	A1/A	21/4	
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	
3.1.3.1	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	
isclosu	re 14.1 - Total Client Positions held as a share of notional values cleared or of the settlement value of	of securities trans	actions				
14.1.1	Total Client Positions held in individually segregated accounts	Quarterly/	l I	N/A	N/A	N/A	Not applicable. GSD/MBSD/NSCC does not maintain separate "house" and "client" accounts f
14.1.2	Total Client Positions held in omnibus client-only accounts, other than LSOC accounts	Quarter End		N/A	N/A	N/A	Members. See NSCC/FICC's Disclosure Frameworks, Principle 14 discussion.
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	
Disclosu	re 15.1 - General business risk						Values representative of the 2021 Annual Audited Financial Statements. Values will remain s until publication of the 2022 Annual Audited Financial Statements (Q4 2022).
15.1.1	Value of liquid net assets funded by equity	Annual	USD \$MM	32	9	570	
15.1.2	Six months of current operating expenses		USD \$MM	13	3	197	
Disclosu	re 15.2 - General business risk; Financial Disclosures						Values representative of the 2021 Annual Audited Financial Statements. Values will remain suntil publication of the 2022 Annual Audited Financial Statements (Q4 2022).
15.2.1	Total Revenue	Annual	USD \$MM	31	0	572	
15.2.2	Total Expenditure		USD \$MM	29	5	409	
15.2.3	Profits		USD \$MM	1	5	163	
15.2.4	Total Assets		USD \$MM	M 40,197		27,585	
15.2.5	Total Liabilities		USD \$MM	39,	666	27,015	
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	

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Disclosure Reference	Disclosure Description	Frequency	Data Type	GSD F	ICC MBSD	NSCC	Explanatory Notes					
Disclosu	re 15.3 - General business risk; Income breakdown						Values representative of the 2021 Annual Audited Financial Statements. Values will remain static until publication of the 2022 Annual Audited Financial Statements (Q4 2022).					
15.3.1	Percentage of total income that comes from fees related to provision of clearing services	Annual	Percentage	99	.9%	98.7%						
15.3.2	Percentage of total income that comes from the reinvestment (or rehypothecation) of assets provided by clearing participants		Percentage	٨	I/A	N/A						
Disclosu	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	10,875	2,270	12,740	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	N/A	N/A	N/A						
Disclosu	re 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%	100%	100%						
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	95%	94%	94%						
16.2.3	Percentage of total participant cash held as cash deposits (including through reverse repo); as cash deposits at other central banks		Percentage	0%	0%	0%						
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	0%	0%	0%						
16.2.5	Percentage of total participant cash held as cash deposits (including through reverse repo); as cash deposits at commercial banks (Unsecured)		Percentage	5%	6%	6%						
16.2.6	Percentage of total participant cash held as cash deposits (including through reverse repo); in money market funds		Percentage	0%	0%	0%						
16.2.7	Percentage of total participant cash held as cash deposits (including through reverse repo); in other forms		Percentage	0%	0%	0%						
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%	100%	100%						
16.2.9	Percentage of total participant cash held as cash deposits (including through reverse repo); weighted average maturity of these cash deposits (including reverse repo) and money market funds		Bus. Days	1	1	1						
16.2.10	Percentage of total participant cash invested in securities; Domestic sovereign government bonds		Percentage	0%	100%	0%						
16.2.11	Percentage of total participant cash invested in securities; Other sovereign government bonds		Percentage	0%	0%	0%						
16.2.12	Percentage of total participant cash invested in securities; Agency Bonds		Percentage	0%	0%	0%						
16.2.13	Percentage of total participant cash invested in securities; State/municipal bonds		Percentage	0%	0%	0%						
16.2.14	Percentage of total participant cash invested in securities; Other instruments		Percentage	0%	0%	0%						
16.2.15	Percentage of total participant cash invested in securities; percentage split by currency of these securities; Specify local currency in comments;		Percentage	0%	100%	0%						
16.2.16	Percentage of total participant cash invested in securities; weighted average maturity of securities; Specify local currency in comments;		Bus. Days	0	0	0						
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						

	Disclosura Description			Data Tura		cc	NSCC	Final anatomy Nation
ference	Disclosure Description		Frequency	Data Type	GSD	MBSD	NSCC	Explanatory Notes
Disclosu	ure 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	0	0	0	Rehypothecation used for liquidity purposes only in the event of a default.
16.3.2	Total value of participant non-cash rehypothecated (Default fund)		Quanter End	USD \$MM	0	0	0	
16.3.3	Rehypothecation of participant assets (ie non-cash) by the CCP where allowed; initial margin;	ON_1D		USD \$MM	0	0	0	
	over the following maturities:	1D_1W		USD \$MM	0	0	0	
	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	1W_1M		USD \$MM	0	0	0	
	monar and up to one year, one year and up to the years, over the years	1M_1Y		USD \$MM	0	0	0	
		1Y_2Y		USD \$MM	0	0	0	
		2Y+		USD \$MM	0	0	0	
16.3.4	Rehypothecation of participant assets (ie non-cash); default fund; over the following	ON_1D		USD \$MM	0	0	0	
	maturities: Overnight/one day; one day and up to one week; One week and up to one month; One	1D_1W		USD \$MM	0	0	0	
	month and up to one year; One year and up to two years; Over two years	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	
17.1.1	Operational availability target for the core system(s) involved in clearing (whether or not outse period for the system	ourced) over specified	Quarterly	Percentage	99.6%	99.6%	99.6%	averaged across all of the systems identified below, in accordance with the established calcula
	period for the system		Quarterly	Percentage	99.6%	99.6%	99.6%	· · · · · · · · · · · · · · · · · · ·
			Quarterly	Percentage	99.6%	99.6%	99.6%	averaged across all of the systems identified below, in accordance with the established calculat
	period for the system ure 17.2 - Actual availability of the core system(s) over the previous twelve me		Quarterly Quarterly	Percentage Percentage	99.6%	99.6%	99.6%	averaged across all of the systems identified below, in accordance with the established calculat the applicable SLA. Availability is calculated across multiple systems. Specifically, CMU, CNS, Risk Management, GS
Disclosu	period for the system ure 17.2 - Actual availability of the core system(s) over the previous twelve me		·	, and the second	99.6%		99.6%	averaged across all of the systems identified below, in accordance with the established calculat the applicable SLA. Availability is calculated across multiple systems. Specifically, CMU, CNS, Risk Management, GSI MBSD and Trade Capture. Since Risk Management is across FICC and NSCC, actual availability ca
Disclosu 17.2.1 Disclosu	period for the system are 17.2 - Actual availability of the core system(s) over the previous twelve me Actual availability of the core system(s) over the previous twelve month period are 17.3 - Total number of failures	onth period	Quarterly	Percentage	99.6%	99.94%	99.6%	Availability is calculated across multiple systems. Specifically, CMU, CNS, Risk Management, GSI MBSD and Trade Capture. Since Risk Management is across FICC and NSCC, actual availability cabe captured at the individual entity level. Actual availability is across all three in total.
Disclosu	period for the system are 17.2 - Actual availability of the core system(s) over the previous twelve me Actual availability of the core system(s) over the previous twelve month period are 17.3 - Total number of failures	onth period	·	, and the second	99.6%		99.6%	averaged across all of the systems identified below, in accordance with the established calcular the applicable SLA. Availability is calculated across multiple systems. Specifically, CMU, CNS, Risk Management, GS MBSD and Trade Capture. Since Risk Management is across FICC and NSCC, actual availability or
Disclosu 17.2.1 Disclosu 17.3.1	period for the system The 17.2 - Actual availability of the core system(s) over the previous twelve me Actual availability of the core system(s) over the previous twelve month period The 17.3 - Total number of failures Total number of failures and duration affecting the core system(s) involved in clearing over the previous twelve month period	onth period	Quarterly	Percentage Count /	99.6%	99.94%	99.6%	averaged across all of the systems identified below, in accordance with the established calcula the applicable SLA. Availability is calculated across multiple systems. Specifically, CMU, CNS, Risk Management, GS MBSD and Trade Capture. Since Risk Management is across FICC and NSCC, actual availability to be captured at the individual entity level. Actual availability is across all three in total. Regulation Systems Compliance and Integrity (Regulation SCI) events for NSCC, GSD, and MBSI the previous twelve month period are reviewed for Disclosure 17.3 reporting. Regulation SCI ethat impact core systems used in clearing that enable the acceptance and novation of trades, a 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 incident duration of failures. Incidents that do not result in a direct business impact to clients are not re as a failure for Disclosure 17.3. File processing delays caused FICC Clearing Fund Requirements reporting delays to clients on two occasions by 45 minutes and by 40 minutes, but all clearing requirements were satisfied within the required collection time. File processing delays resulted.
Disclosu 17.2.1 Disclosu 17.3.1	are 17.2 - Actual availability of the core system(s) over the previous twelve may be a core system(s) over the previous twelve month period are 17.3 - Total number of failures Total number of failures and duration affecting the core system(s) involved in clearing over the period (Duration of Failure)	onth period	Quarterly	Percentage Count /	99.6% Within 2 Hours	99.94%	99.6% Within 2 Hours	averaged across all of the systems identified below, in accordance with the established calcula the applicable SLA. Availability is calculated across multiple systems. Specifically, CMU, CNS, Risk Management, GS MBSD and Trade Capture. Since Risk Management is across FICC and NSCC, actual availability to be captured at the individual entity level. Actual availability is across all three in total. Regulation Systems Compliance and Integrity (Regulation SCI) events for NSCC, GSD, and MBSI the previous twelve month period are reviewed for Disclosure 17.3 reporting. Regulation SCI ethat impact core systems used in clearing that enable the acceptance and novation of trades, a 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 inciden duration of failures. Incidents that do not result in a direct business impact to clients are not re as a failure for Disclosure 17.3. File processing delays caused FICC Clearing Fund Requirements reporting delays to clients on two occasions by 45 minutes and by 40 minutes, but all clearing requirements were satisfied within the required collection time. File processing delays resulted.

Disclosure	Disclosure Description		Francisco	Data Tura	FICC		NCCC	Evalenatory Notes		
Reference			Frequency	Data Type	GSD	MBSD	NSCC	Explanatory Notes		
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 Number of direct clearing members		Quarterly/ Quarter End	Count	135	79	66	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				Count	0	0	80			
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	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	46	18	14			
18.1.2.4	Number of other participants (Describe in comments)			Count	89	61	132	Includes Broker/dealers, Stock Exchanges, CSD's and Trust members. Excludes Banks.		
18.1.3.1	Number of domestic participants			Count	92	74	144			
18.1.3.2	Number of foreign participants			Count	43	5	2	US Branches/Agencies of Non US legal entities will be considered Non-US (foreign)		
Disclosu	re 18.2 - Open Position Concentration									
18.2.1	For each clearing service with ten or more members, but fewer than 25 members;	Average End of Day	Quarterly	Percentage	N/A	N/A	N/A			
	Percentage of open positions held by the largest five clearing members, including both house and client, in aggregate	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	Average End of Day		Percentage	25%	41%	36%			
	the largest five clearing members, including both house and client, in aggregate	Peak End of Day		Percentage	27%	44%	38%			
18.2.3	For each clearing service with 25 or more members; Percentage of open positions held by	Average End of Day		Percentage	40%	65%	54%			
	the largest ten clearing members, including both house and client, in aggregate	Peak End of Day		Percentage	41%	68%	57%			
Disclosu	Disclosure 18.3 - Initial Margin Concentration									
18.3.1	For each clearing service with ten or more members, but fewer than 25 members;	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		
	Percentage of initial margin posted by the largest five clearing members, including both house and client, in aggregate	Peak End of Day		Percentage	N/A	N/A	N/A	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		
18.3.2	For each clearing service with 25 or more members; Percentage of initial margin posted by	Average End of Day		Percentage	34%	61%	31%	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.		
	the largest five clearing members, including both house and client, in aggregate	Peak End of Day		Percentage	37%	70%	54%			
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%	81%	48%	* Member's deposits include excess deposits exceeding the requirement that can be withdrawn by members.		
	and the state of t	Peak End of Day		Percentage	54%	91%	64%			

closure	Disclosure Description	Frequency	Data Type		FICC	NSCC	Explanatory Notes
rence			//	GSD	MBSD		, ,
closu	re 18.4 - Segregated Default Fund Concentration						
8.4.1	For each segregated default fund with ten or more members, but fewer than 25 members; Percentage of participant	Quarterly/	Percentage	N/A	N/A	N/A	See Explanatory Note from 18.3
	contributions to the default fund contributed by largest five clearing members in aggregate	Quarter End					
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	
0.4.2	, , , , , , , , , , , , , , , , , , , ,		Danasatasas	N/A	N/A	N/A	
8.4.3	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	
closu	re 19.1 - Tiered participation arrangements, measures of concentration of client clearing						
9.1.1	Number of clients (if known)	Quarterly/ Quarter End	Count	N/A	N/A	N/A	See Explanatory Note from 14.1
9.1.2	Number of direct members that clear for clients	Quarter Enu	Count	N/A	N/A	66	NSCC: Number denotes members that clear for other Broker/Dealers.
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
						,	
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
.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
0.1.4.2	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
.1.4.2	references chemical and actions acting and the company and the		refeemage	.,,	.,	.,,	See Explanatory Note 11611 24.2
sclosu	re 20.1 - FMI Links, Value of Trades						
0.1.1	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 a
							Depository Services, Inc. (the Canadian CSD) is a full service member of NSCC, and is subject margining and the other requirements of membership as a member. The CDS relationship
							described in NSCC's Disclosure Framework under Principle 20. The GSD/CME Cross-Margin
							Agreement, which is described in GSD's disclosure with respect to PFMI Principle 20, is not interoperable link as described by sections 20.1 through 20.6 of the quantitative disclosure
							microperate minus accorded by sections 2012 through 2010 of the quantitative assessment
closu	re 20.2 - FMI Links, Initial Margin or equivalent financial resources provided						See Explanatory Note from 20.1
sclosu	re 20.3 - FMI Links, Initial Margin or equivalent financial resources collected	See Explanatory Note from 20.1					
closu	re 20.4 - FMI Links, Results of Back-testing coverage						See Explanatory Note from 20.1
closu	re 20.5 - FMI Links, Additional pre-funded financial resources provided to						See Explanatory Note from 20.1
							Con Europeantery, Note from 20.1
osu	re 20.6 - FMI Links, Additional pre-funded financial resources collected from						See Explanatory Note from 20.1

	OOOO Quantitative Disclosures - D100							A3 of March of, E022
Disclosure Reference	Disclosure Description		Frequency	Data Type		CC	NSCC	Explanatory Notes
	re 20.7 - FMI Links, Cross Margining				GSD	MBSD		
20.7.1	Value of trades subject to cross margining, by clearing service, as a percentage of total trade v cleared	alues/total notional values	Quarterly/ Quarter End	Percentage	19%	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
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	0.08%	N/A	N/A	Disclosure Framework under Principle 20. GSD has a cross-margining arrangement with the Chicago Mercantile Exchange. For GSD under section 20.7, disclosures are quarterly averages.
Disclosu	re 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	ОТС	Quarterly		386,632	16,301	96,179,078	For GSD/MBSD and NSCC, average daily volume data is based on sides (as opposed to trades). Omnibus Accounts are excluded for NSCC.
		NSCC_Exchange			-	-	142,364,958	NSCC - OTC includes CORP/UIT BONDS, CORR CLEAR, ECN/Q.S.R., ETF CR/RD, FINRA ORF, I&RS APP, MUNI BONDS, NASDAQ TRF, O.C.C., OMGEO
23.1.2	Average Notional Value of trades cleared by Asset Class, CCY and OTC/ETD	ОТС		USD \$MM	4,615,431	393,119	1,554,830	NSCC - Exchanges includes BATS, BATS BYX, C.H.X., DIRECT EDGE A, DIRECT EDGE X, IEX EXCHANGE, LTSE EXCHANGE, MEMX EXCHANGE, MIAX PEARL, NASDAQ, NASDAQ BX, NASDAQ PHLX, NYSE, NYSE
		NSCC_Exchange		USD \$MM	-	-	968,453	2, NYSE AMEX, NYSE ARCA, NYSE NATIONAL
Disclosu	ire 23.2 - Disclosure of rules, key procedures, and market data; Non-Yet-Settl	ed						
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 \$MM	1,214	410	278	Sources: FICC and NSCC financial statements, as available in the DTCC public website
Disclosu	ire 23.3 - Disclosure of rules, key procedures, and market data; Execution Fac	ility						
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	
Paymen	t Risk Committee Disclosure 1 - Concentration Measures							
	Initial Margin Required	Top 3 Members	Quarterly/ Quarter End	USD \$MM	4,159	5,667	2,873	
	Number of Members with x% of Initial Margin Requirement	> 20%		Count	0	2	0	Aggregated by deposit account.
		15% to 20%		Count	0	0	0	
		10% to 15%		Count	0	1	0	
		5% to 10%		Count	4	4	4	
		< 5%		Count	168	90	142	
	Total Initial Margin Posted (Market Value)	Total		USD \$MM	26,971	13,104	13,526	

Disclosure	deference Disclosure Description		Frequency	Data Type	FICC		NSCC	Explanatory Notes					
Reference			,,		GSD	MBSD							
Payment Risk Committee Disclosure 2 - Initial Margin Detail													
	Initial Margin Breakdown by Component	VaR / Volatility	Quarterly/ Quarter End	USD \$MM	19,172	8,187	7,122	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	172	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	163	0	589	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	25	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	-15	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	2,843	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	773	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 maintains a pass-through MtM process whereby it collects MTM debits from those Members with debits and passes those to the Members with MTM credits. For MBSD, there is a Deterministic Risk Component ("DRC") in the Clearing Fund Requirement that reflects mark-to-market results on outstanding positions, regardless of settlement date, cash items and adjustments that are the result of netting, and principal and interest exposure on failed positions. At least once daily, MBSD calculates the DRC that reflects the mark-to-market of the portfolio to account for the difference between the contract price and current market prices, interest and other cash settlement obligations. DRC can be a credit or debit amount. If the DRC is a debit, this amount will increase the Clearing Fund requirement. If the DRC is a credit, it can be used to reduce the amount of the Required Fund requirement (subject to the VaR Floor).
		Special Charge		USD \$MM	208	2	147	GSD includes: Back Test Charges, Intraday Supp. Fund Deposit, Minimum Deposit, and Intraday Charge MBSD includes: Back Test Charges, Intraday Charges, and Adequate Assurance NSCC includes: Back Test Charges, Adequate Assurance, and Intraday Mark-to-Market					
		Other Charges		USD \$MM	27	1,644	963	GSD includes: Minimum Requirement Adjustments, Excess Capital Premium, and Falling Below Minimum Requirement MBSD includes: Principal & Interest Related Charges, Cash Obligation Items, 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					