



Q4 2015

# FIXED INCOME CLEARING CORPORATION

AND

# NATIONAL SECURITIES CLEARING CORPORATION

QUANTITATIVE DISCLOSURES FOR CENTRAL COUNTERPARTIES

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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.

Disclosure	Disclosure Description	Disclosure Description Frequency Data Type FICC		Data Turna	F	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 va	riation margin), split by cleari	ng service if defau	It funds are segr	regated by cleari	ng service			
4.1.1	Prefunded - Own Capital Before		Quarterly/ Quarter End	USD \$MM	3	1.9	70.9	For NSCC, amount represents 25% of its Retained Earnings as at quarter end.	
4.1.2	Prefunded - Own Capital Alongside			USD \$MM	n/a	n/a	n/a	FICC does not publish separate Retained Earnings balances for GSD and MBSD since each is a division operating within the legal entity FICC. The separate Rules of each of GSD and MBSD provide that each	
4.1.3	Prefunded - Own Capital After			USD \$MM	n/a	n/a	n/a	of GSD and MBSD applies up to 25% (or more, if its Board determines) of FICC Retained Earnings in the event of a member default for which losses exceed the defaulting member's margin. Accordingly, the amount reported is equal to 25% of FICC Retained Earnings. If a member loss applies to both Divisions, FICC would allocate the amount reported to each Division in proportion to the respective Division-specific exposure.	
4.1.4	Prefunded - Aggregate Participant Contributions - Required			USD \$MM	8,534	3,885	3,156	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	
4.1.5	Prefunded - Aggregate Participant Contributions - Post-Haircut Posted			USD \$MM	10,977	4,568	4,121	<ul> <li>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.</li> <li>FICC and NSCC are in the process of developing a proposal to establish guarantee funds to cover tail risk. The proposal is in the development stage, and will be subject to Member outreach and the Rule Filing process. If such a structure is implemented, it (and not the Clearing Fund) would serve as the financial resource for mutualization.</li> </ul>	
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 r	ound of participant defaults)		USD \$MM	n/a	n/a	n/a		
4.1.8	Committed - Aggregate participant commitments to address an initial participant default defaults)	(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 deal w (or round of participant defaults) after the initial participant default (or round of particip			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					ł			
4.2.1	Kccp - Kccp need only be reported by those CCPs which are, or seek to be a "qualifying C	:P" under relevant law.	Quarterly	USD \$MM	289	n/a	n/a		
4.2.1	Kccp - Kccp need only be reported by those CCPs which are, or seek to be a "qualifying C	CP" under relevant law.	Quarterly	USD \$MM	289	n/a	n/a		
	Kccp - Kccp need only be reported by those CCPs which are, or seek to be a "qualifying C ure 4.3 - Value of pre-funded default resources (excluding initial and retain				289	n/a	n/a		
Disclosu	ure 4.3 - Value of pre-funded default resources (excluding initial and retai	ned variation margin) held for	r each clearing serv	vice	289	n/a 0	n/a 0		
	ure 4.3 - Value of pre-funded default resources (excluding initial and retai								
Disclosu	ure 4.3 - Value of pre-funded default resources (excluding initial and retain Cash deposited at a central bank of issue of the currency concerned	ned variation margin) held for Pre Haircut	r each clearing serv Quarterly/	vice USD \$MM	0	0	0		
Disclosu 4.3.1	ure 4.3 - Value of pre-funded default resources (excluding initial and retain Cash deposited at a central bank of issue of the currency concerned	ned variation margin) held for Pre Haircut Post Haircut	r each clearing serv Quarterly/	vice USD \$MM USD \$MM	0	0	0		
Disclosu 4.3.1	ure 4.3 - Value of pre-funded default resources (excluding initial and retain Cash deposited at a central bank of issue of the currency concerned Cash deposited at other central banks	ned variation margin) held for Pre Haircut Post Haircut Pre Haircut Pre Haircut	r each clearing serv Quarterly/	vice USD \$MM USD \$MM USD \$MM	0 0 0	0 0 0	0 0 0		
<b>Disclosu</b> 4.3.1 4.3.2	ure 4.3 - Value of pre-funded default resources (excluding initial and retain Cash deposited at a central bank of issue of the currency concerned Cash deposited at other central banks	ned variation margin) held for Pre Haircut Post Haircut Pre Haircut Post Haircut Post Haircut	r each clearing serv Quarterly/	Vice USD \$MM USD \$MM USD \$MM USD \$MM	0 0 0 0	0 0 0 0	0 0 0 0		
<b>Disclosu</b> 4.3.1 4.3.2	ure 4.3 - Value of pre-funded default resources (excluding initial and retain Cash deposited at a central bank of issue of the currency concerned Cash deposited at other central banks	ned variation margin) held for Pre Haircut Post Haircut Pre Haircut Post Haircut Pre Haircut Pre Haircut	r each clearing serv Quarterly/	Vice USD \$MM USD \$MM USD \$MM USD \$MM USD \$MM	0 0 0 0 765	0 0 0 0 700	0 0 0 0 615	See Explanatory Note from 4.1	
Disclosu 4.3.1 4.3.2 4.3.3	ure 4.3 - Value of pre-funded default resources (excluding initial and retain Cash deposited at a central bank of issue of the currency concerned Cash deposited at other central banks Secured cash deposited at commercial banks (including reverse repo)	ned variation margin) held for Pre Haircut Post Haircut Pre Haircut Post Haircut Pre Haircut Pre Haircut Pre Haircut Post Haircut	r each clearing serv Quarterly/	Vice USD \$MM USD \$MM USD \$MM USD \$MM USD \$MM USD \$MM	0 0 0 765 780	0 0 0 700 714	0 0 0 615 627	See Explanatory Note from 4.1	
Disclosu 4.3.1 4.3.2 4.3.3	ure 4.3 - Value of pre-funded default resources (excluding initial and retain Cash deposited at a central bank of issue of the currency concerned Cash deposited at other central banks Secured cash deposited at commercial banks (including reverse repo)	ned variation margin) held for Pre Haircut Post Haircut Pre Haircut Post Haircut Pre Haircut Pre Haircut Pre Haircut Pre Haircut Pre Haircut	r each clearing serv Quarterly/	Vice USD \$MM USD \$MM USD \$MM USD \$MM USD \$MM USD \$MM USD \$MM	0 0 0 765 780 1,050	0 0 0 700 714 570	0 0 0 615 627 850	See Explanatory Note from 4.1 See Explanatory Note from 4.1	
Disclosu 4.3.1 4.3.2 4.3.3 4.3.4.1	ure 4.3 - Value of pre-funded default resources (excluding initial and retain Cash deposited at a central bank of issue of the currency concerned Cash deposited at other central banks Secured cash deposited at commercial banks (including reverse repo) Unsecured cash deposited at commercial banks	ned variation margin) held for Pre Haircut Post Haircut Pre Haircut Post Haircut Pre Haircut Pre Haircut Post Haircut Pre Haircut Pre Haircut Pre Haircut Post Haircut	r each clearing serv Quarterly/	Vice USD \$MM USD \$MM USD \$MM USD \$MM USD \$MM USD \$MM USD \$MM USD \$MM	0 0 0 765 780 1,050 1,050	0 0 0 700 714 570 570	0 0 0 615 627 850 850		
Disclosu 4.3.1 4.3.2 4.3.3 4.3.4.1	ure 4.3 - Value of pre-funded default resources (excluding initial and retain Cash deposited at a central bank of issue of the currency concerned Cash deposited at other central banks Secured cash deposited at commercial banks (including reverse repo) Unsecured cash deposited at commercial banks	ned variation margin) held for Pre Haircut Post Haircut Post Haircut Pre Haircut Pre Haircut Pre Haircut Post Haircut Pre Haircut Pre Haircut Post Haircut Pre Haircut Pre Haircut Pre Haircut Pre Haircut Pre Haircut	r each clearing serv Quarterly/	Vice USD \$MM USD \$MM USD \$MM USD \$MM USD \$MM USD \$MM USD \$MM USD \$MM USD \$MM	0 0 0 765 780 1,050 1,050 3,035	0 0 0 700 714 570 570 1,758	0 0 0 615 627 850 850 2,382		

Disclosure	Dislaure Description		Francisco	Data Tura	F	ICC	NICCO	Forderschurghlater
Reference	Disclosure Description		Frequency	Data Type	GSD	MBSD	NSCC	Explanatory Notes
Disclosu	re 4.3 - Value of pre-funded default resources (excluding initial and retained va	ariation margin) held for	r each clearing ser	vice - Cont'd				
4.3.5	Non-Cash Sovereign Government Bonds - Domestic	Pre Haircut	Quarterly/	USD \$MM	5,831	1,065	290	See Explanatory Note from 4.1
		Post Haircut	Quarter End	USD \$MM	5,911	1,045	279	
4.3.6	Non-Cash Sovereign Government Bonds - Other	Pre Haircut		USD \$MM	0	0	0	
		Post Haircut		USD \$MM	0	0	0	
4.3.7	Non-Cash Agency Bonds	Pre Haircut		USD \$MM	190	451	0	See Explanatory Note from 4.1
		Post Haircut		USD \$MM	167	397	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	
Disclosu	ıre 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		Quarterly	[	Cover 1	Cover 1	Cover 1	
	to total pre-funded default resources.							
4.4.2	For each clearing service, state the number of business days within which the CCP assumes it			Bus. Days	3	3	3	This is our risk horizon for liquidation and hedging of market risk.
	will close out the default when calculating credit exposures that would potentially need to be							
	covered by the default fund.							
4.4.3	For each clearing service, the estimated largest aggregate stress loss (in excess of initial	Peak Day/		USD \$MM	1,361	1,139	1,113	
	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)	Mean Avg/ Previous 12 Months		USD \$MM	1,152	704	291	
4.4.4	Report the number of business days, if any, on which the above amount (4.4.3) exceeded actual	Previous 12 Months		Ruc Dave	0	0	0	
4.4.4	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	Amt Exceeded/		USD \$MM	0	0	0	
4.4.5	margin) (Previous 12 Months)	Previous 12 Months			0	0	v	
115	For each clearing service, the actual largest aggregate credit exposure (in excess of initial	Peak Day/		USD \$MM	392	35	30	Amount represents Peak/Average margin back test results. Also see disclosure 6.5.4 and 6.5.5.
4.4.6	margin) to any single participant and its affiliates (including transactions cleared for indirect	Previous 12 Months			332	35	50	אוויטטות ובטיבטרונג דבמא אירומצר וומוצווי שמנה נכזר דבשונג. אוגט געל טוגנוטגערע ס.ג.4 מוע ס.ג.5.
	participants) (Previous 12 Months)	Avg/		USD \$MM	16	2	1	
		Previous 12 Months				4.655		
4.4.7		Peak Day/ Previous 12 Months		USD \$MM	2,019	1,602	1,377	
	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	Mean Avg/		USD \$MM	1,692	1,024	426	-
	conditions (Previous 12 Months)	Previous 12 Months		USU Şiviivî	1,032	1,024	420	
4.4.8	Number of business days, if any, on which the above amount (4.4.7) exceeded actual pre-			Bus. Days	0	0	0	
	funded default resources (in excess of initial margin) and by how much.							
			1					

Disclosure	Disclosure Description		Frequency Data Type		ICC	NSCC	Explanatory Notes	
Reference			Frequency	Data Type	GSD	MBSD	NSCC	Explanatory Notes
Disclosu	ure 4.4 - Credit Risk Disclosures - Cont'd							
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	Quarterly	USD \$MM	0	0	0	
4.4.10	For each clearing service, what was the actual largest aggregate credit exposure (in excess of initial margin) to any two participants and their affiliates (including transactions cleared for	Peak Day/ Previous 12 Months	-	USD \$MM	414	43	42	Amount represents Peak/Average margin back test results.
	indirect participants)? (Previous 12 Months) Previous 12 Months)			USD \$MM	35	3	4	
Disclosu	ure 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	com/~/media/Fil es/Downloads/le	com/~/media/Fil es/Downloads/le	http://www.dtcc. com/~/media/Fil es/Downloads/le gal/rules/nscc_ru les.pdf	
					Section: "SCHEDULE OF HAIRCUTS FOR ELIGIBLE CLEARING FUND	Section: "SCHEDULE OF HAIRCUTS FOR ELIGIBLE CLEARING FUND	Section: "PROCEDURE XV", "III. Collateral Value of Eligible	
					SECUDITIES"		Clearing Fund	
Disclosu	ure 5.2 - Assets Eligible for pre-funded participant contributions to the default r	resources, and the respo	ective haircuts appl	ied (if different	SECURITIES"	SECURITIES"	Clearing Fund Securities"	
Disclosu 5.2.1			ective haircuts appl Update as changes are made	ied (if different		SECURITIES"	-	
5.2.1	Assets Eligible for pre-funded participant contributions to the default resources, and the respect		Update as changes	ied (if different	t from 5.1)		Securities"	
5.2.1	Assets Eligible for pre-funded participant contributions to the default resources, and the respect different from 5.1) ure 5.3 - Results of testing of haircuts		Update as changes	ied (if different	t from 5.1)		Securities"	
5.2.1 Disclosu	Assets Eligible for pre-funded participant contributions to the default resources, and the respect different from 5.1) ure 5.3 - Results of testing of haircuts		Update as changes are made		: from 5.1) See 5.1 above	See 5.1 above	Securities" See 5.1 above	See Explanatory Note from 4.4.2
5.2.1 Disclosu	Assets Eligible for pre-funded participant contributions to the default resources, and the respect different from 5.1) ure 5.3 - Results of testing of haircuts Confidence interval targeted through the calculation of haircuts Assumed holding/liquidation period for the assets accepted		Update as changes are made	Percentage	: from 5.1) See 5.1 above 99%	See 5.1 above	Securities" See 5.1 above 99%	See Explanatory Note from 4.4.2
5.2.1 Disclosu 5.3.1 5.3.2	Assets Eligible for pre-funded participant contributions to the default resources, and the respect different from 5.1) <b>ure 5.3 - Results of testing of haircuts</b> Confidence interval targeted through the calculation of haircuts Assumed holding/liquidation period for the assets accepted Look-back period used for testing the haircuts Number of days during the look-back period on which the fall in value during the assumed	ive haircuts applied (if	Update as changes are made	Percentage Bus. Days Bus. Days	: from 5.1) See 5.1 above 99% 3 Days 10 years 0	See 5.1 above           99%           3 Days           10 years           0	Securities" See 5.1 above 99% 3 Days 10 years 0	See Explanatory Note from 4.4.2
5.2.1 Disclosu 5.3.1 5.3.2 5.3.3	Assets Eligible for pre-funded participant contributions to the default resources, and the respect different from 5.1) ure 5.3 - Results of testing of haircuts Confidence interval targeted through the calculation of haircuts Assumed holding/liquidation period for the assets accepted Look-back period used for testing the haircuts	ive haircuts applied (if	Update as changes are made	Percentage Bus. Days	strom 5.1)         See 5.1 above         99%         3 Days         10 years	See 5.1 above           99%           3 Days           10 years	Securities" See 5.1 above 99% 3 Days 10 years	See Explanatory Note from 4.4.2
5.2.1 Disclosu 5.3.1 5.3.2 5.3.3 5.3.4	Assets Eligible for pre-funded participant contributions to the default resources, and the respect different from 5.1) <b>ure 5.3 - Results of testing of haircuts</b> Confidence interval targeted through the calculation of haircuts Assumed holding/liquidation period for the assets accepted Look-back period used for testing the haircuts Number of days during the look-back period on which the fall in value during the assumed	ive haircuts applied (if Treasury Agency Mortgages	Update as changes are made Quarterly	Percentage Bus. Days Bus. Days Bus. Days	: from 5.1) See 5.1 above 99% 3 Days 10 years 0 0	See 5.1 above           99%           3 Days           10 years           0           0	Securities" See 5.1 above 99% 3 Days 10 years 0 0 0	See Explanatory Note from 4.4.2
5.2.1 Disclosu 5.3.1 5.3.2 5.3.3 5.3.4	Assets Eligible for pre-funded participant contributions to the default resources, and the respect different from 5.1) <b>ure 5.3 - Results of testing of haircuts</b> Confidence interval targeted through the calculation of haircuts Assumed holding/liquidation period for the assets accepted Look-back period used for testing the haircuts 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. <b>ure 6.1 - Total initial margin required split by house, client gross, client net and</b>	ive haircuts applied (if Treasury Agency Mortgages	Update as changes are made Quarterly	Percentage Bus. Days Bus. Days Bus. Days	: from 5.1) See 5.1 above 99% 3 Days 10 years 0 0	See 5.1 above           99%           3 Days           10 years           0           0	Securities" See 5.1 above 99% 3 Days 10 years 0 0 0	See Explanatory Note from 4.1.4
5.2.1 Disclosu 5.3.1 5.3.2 5.3.3 5.3.4 Disclosu	Assets Eligible for pre-funded participant contributions to the default resources, and the respect different from 5.1) <b>ure 5.3 - Results of testing of haircuts</b> Confidence interval targeted through the calculation of haircuts Assumed holding/liquidation period for the assets accepted Look-back period used for testing the haircuts 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. <b>ure 6.1 - Total initial margin required split by house, client gross, client net and</b>	ive haircuts applied (if Treasury Agency Mortgages total (if not segregated)	Update as changes are made Quarterly	Percentage Bus. Days Bus. Days Bus. Days Bus. Days Bus. Days	: from 5.1)         See 5.1 above         99%         3 Days         10 years         0         0         0         0         0         0	See 5.1 above 99% 3 Days 10 years 0 0 0 0	Securities" See 5.1 above 99% 3 Days 10 years 0 0 0 0	

Disclosure	Disclosure Description		Frequency	Data Type	I	ICC	NSCC	Explanatory Notes
Reference			Frequency	Data Type	GSD	MBSD	NSCC	Explanatory Notes
Disclosu	re 6.2 - For each clearing service, total initial margin required, split by ho	use and client (or combined t	otal if not segrega	ited)				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.
6.2.1	Cash deposited at a central bank of issue of the currency concerned	House IM Pre Haircut	Quarterly	USD \$MM	n/a	n/a	n/a	
		House IM Post Haircut		USD \$MM	n/a	n/a	n/a	
		Client IM Pre Haircut		USD \$MM	n/a	n/a	n/a	
		Client IM Post Haircut		USD \$MM	n/a	n/a	n/a	
		Total IM Pre Haircut		USD \$MM	n/a	n/a	n/a	
		Total IM Post Haircut		USD \$MM	n/a	n/a	n/a	
6.2.2	Cash deposited at other central banks	House IM Pre Haircut		USD \$MM	n/a	n/a	n/a	
		House IM Post Haircut		USD \$MM	n/a	n/a	n/a	
		Client IM Pre Haircut		USD \$MM	n/a	n/a	n/a	
		Client IM Post Haircut		USD \$MM	n/a	n/a	n/a	
		Total IM Pre Haircut		USD \$MM	n/a	n/a	n/a	
		Total IM Post Haircut		USD \$MM	n/a	n/a	n/a	
6.2.3	Secured cash deposited at commercial banks (including reverse repo)	House IM Pre Haircut		USD \$MM	n/a	n/a	n/a	
		House IM Post Haircut		USD \$MM	n/a	n/a	n/a	
		Client IM Pre Haircut		USD \$MM	n/a	n/a	n/a	
		Client IM Post Haircut		USD \$MM	n/a	n/a	n/a	
		Total IM Pre Haircut		USD \$MM	n/a	n/a	n/a	
		Total IM Post Haircut		USD \$MM	n/a	n/a	n/a	
6.2.4	Unsecured cash deposited at commercial banks	House IM Pre Haircut		USD \$MM	n/a	n/a	n/a	
		House IM Post Haircut		USD \$MM	n/a	n/a	n/a	
		Client IM Pre Haircut		USD \$MM	n/a	n/a	n/a	
		Client IM Post Haircut		USD \$MM	n/a	n/a	n/a	
		Total IM Pre Haircut		USD \$MM	n/a	n/a	n/a	
		Total IM Post Haircut		USD \$MM	n/a	n/a	n/a	
6.2.5	Non-Cash Sovereign Government Bonds - Domestic	House IM Pre Haircut		USD \$MM	n/a	n/a	n/a	
		House IM Post Haircut		USD \$MM	n/a	n/a	n/a	
		Client IM Pre Haircut		USD \$MM	n/a	n/a	n/a	
		Client IM Post Haircut		USD \$MM	n/a	n/a	n/a	
		Total IM Pre Haircut		USD \$MM	n/a	n/a	n/a	
		Total IM Post Haircut		USD \$MM	n/a	n/a	n/a	
6.2.6	Non-Cash Sovereign Government Bonds - Other	House IM Pre Haircut		USD \$MM	n/a	n/a	n/a	
		House IM Post Haircut		USD \$MM	n/a	n/a	n/a	
		Client IM Pre Haircut		USD \$MM	n/a	n/a	n/a	
		Client IM Post Haircut		USD \$MM	n/a	n/a	n/a	
		Total IM Pre Haircut		USD \$MM	n/a	n/a	n/a	
		Total IM Post Haircut		USD \$MM	n/a	n/a	n/a	
6.2.7	Non-Cash Agency Bonds	House IM Pre Haircut		USD \$MM	n/a	n/a	n/a	
		House IM Post Haircut		USD \$MM	n/a	n/a	n/a	
		Client IM Pre Haircut		USD \$MM	n/a	n/a	n/a	
		Client IM Post Haircut		USD \$MM	n/a	n/a	n/a	
		Total IM Pre Haircut		USD \$MM	n/a	n/a	n/a	1
		Total IM Post Haircut		USD \$MM	n/a	n/a	n/a	

Disclosure	Disclosure Description		Frequency	Data Type		FICC	NSCC	Explanatory Notes
Reference			Frequency	Data Type	GSD	MBSD	NSCC	Explanatory Notes
Disclosu	re 6.2 - For each clearing service, total initial margin required, split by hous	se and client (or combined t	otal if not segrega	ted) (cont'd)				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.
6.2.8	Non-Cash State/municipal bonds	House IM Pre Haircut	Quarterly	USD \$MM	n/a	n/a	n/a	
		House IM Post Haircut		USD \$MM	n/a	n/a	n/a	
		Client IM Pre Haircut		USD \$MM	n/a	n/a	n/a	
		Client IM Post Haircut		USD \$MM	n/a	n/a	n/a	
		Total IM Pre Haircut		USD \$MM	n/a	n/a	n/a	
		Total IM Post Haircut		USD \$MM	n/a	n/a	n/a	
6.2.9	Non-Cash Corporate bonds	House IM Pre Haircut		USD \$MM	n/a	n/a	n/a	
		House IM Post Haircut		USD \$MM	n/a	n/a	n/a	
		Client IM Pre Haircut		USD \$MM	n/a	n/a	n/a	
		Client IM Post Haircut		USD \$MM	n/a	n/a	n/a	
		Total IM Pre Haircut		USD \$MM	n/a	n/a	n/a	
		Total IM Post Haircut		USD \$MM	n/a	n/a	n/a	
6.2.10	Non-Cash Equities	House IM Pre Haircut		USD \$MM	n/a	n/a	n/a	
		House IM Post Haircut		USD \$MM	n/a	n/a	n/a	
		Client IM Pre Haircut		USD \$MM	n/a	n/a	n/a	
		Client IM Post Haircut		USD \$MM	n/a	n/a	n/a	
		Total IM Pre Haircut		USD \$MM	n/a	n/a	n/a	
		Total IM Post Haircut		USD \$MM	n/a	n/a	n/a	
6.2.11	Non-Cash Commodities - Gold	House IM Pre Haircut		USD \$MM	n/a	n/a	n/a	
		House IM Post Haircut		USD \$MM	n/a	n/a	n/a	
		Client IM Pre Haircut Client IM Post Haircut		USD \$MM USD \$MM	n/a n/a	n/a n/a	n/a n/a	
				-	n/a	n/a	n/a	
		Total IM Pre Haircut Total IM Post Haircut		USD \$MM USD \$MM	n/a	n/a	n/a	
6.2.12	Non-Cash Commodities - Other	House IM Pre Haircut		USD \$MM	n/a	n/a	n/a	
0.2.12	Non-Cash Commodities - Other	House IM Post Haircut		USD \$MM	n/a	n/a	n/a	
		Client IM Pre Haircut		USD \$MM	n/a	n/a	n/a	
		Client IM Post Haircut		USD \$MM	n/a	n/a	n/a	
		Total IM Pre Haircut		USD \$MM	n/a	n/a	n/a	
		Total IM Post Haircut		USD \$MM	n/a	n/a	n/a	
6.2.13	Non-Cash - Mutual Funds / UCITs	House IM Pre Haircut		USD \$MM	n/a	n/a	n/a	
0.2.15		House IM Post Haircut		USD \$MM	n/a	n/a	n/a	
		Client IM Pre Haircut		USD \$MM	n/a	n/a	n/a	
		Client IM Post Haircut		USD \$MM	n/a	n/a	n/a	
		Total IM Pre Haircut		USD \$MM	n/a	n/a	n/a	
		Total IM Post Haircut		USD \$MM	n/a	n/a	n/a	
6.2.14	Non-Cash - Other	House IM Pre Haircut		USD \$MM	n/a	n/a	n/a	
		House IM Post Haircut		USD \$MM	n/a	n/a	n/a	
		Client IM Pre Haircut		USD \$MM	n/a	n/a	n/a	
		Client IM Post Haircut		USD \$MM	n/a	n/a	n/a	
		Total IM Pre Haircut		USD \$MM	n/a	n/a	n/a	
		Total IM Post Haircut		USD \$MM	n/a	n/a	n/a	
		A deal man a deal and deal		000 911111	.,	.,.	.,, .	

Disclosure			_		F	ICC		
Reference	Disclosure Description		Frequency	Data Type	GSD	MBSD	NSCC	Explanatory Notes
Disclosu	ure 6.2 - For each clearing service, total initial margin required, split by house a	nd client (or combined	total if not segrega	ted) (cont'd)				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.
6.2.15	Cash deposited at a central bank of issue of the currency concerned; Total (if not segregated)	House IM Pre Haircut	1	USD \$MM	n/a	n/a	n/a	
		House IM Post Haircut		USD \$MM	n/a	n/a	n/a	
		Client IM Pre Haircut		USD \$MM	n/a	n/a	n/a	
		Client IM Post Haircut		USD \$MM	n/a	n/a	n/a	
		Total IM Pre Haircut		USD \$MM	n/a	n/a	n/a	
		Total IM Post Haircut		USD \$MM	n/a	n/a	n/a	
						-	-	
Disclos	ure 6.3 - Initial Margin rates on individual contracts, where the CCP sets such ra	ites						
6.3.1	Initial Margin rates on individual contracts where the CCP sets such rates		Update as changes		n/a	n/a	n/a	
			are made					
Disclosu	ure 6.4 - Type of initial margin model used (e.g. portfolio simulation or risk agg	regation) for each cleari	ng service and the	key model desi	gn parameters fo	r each initial mar	gin model applied	d to that clearing service
6.4.4		service and the key model	Update as changes		Historical	Historical	Parametric	
	design parameters for each initial margin model applied to that clearing service		are made		Simulation + Haircut	Simulation + Haircut	VaR + Haircut	
					Haircut	Haircut		
Disclos	ure 6.5 - Results of back-testing of initial margin. At a minimum, this should inc	lude, for each clearing s	ervice and each ini	tial margin mod	lel applied to tha	t clearing service	-	
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	241	28	81	
6.5.2	Number of observations ([Number of accounts * number of days])	Previous 12 Months		Count	26,972	30,500	36,646	
6.5.3	Achieved coverage level [aggregate CCP-level backtest coverage]	Previous 12 Months		Percentage	99.1%	99.9%	99.8%	
6.5.4	Where breaches of initial margin coverage (as defined in 6.5(a)) have occurred, report on size of uncovered exposure	Peak Size/ Previous 12 Months		USD \$MM	392	35	30	
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	16	2	1	
Disclos	ure 6.6 - Average Total Variation Margin Paid to the CCP by participants each bu	usiness						
6.6.1	Average Total Variation Margin Paid to the CCP by participants each business day	Average	Quarterly	USD \$MM	1,281	562	331	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.
Disclose	ure 6.7 - Maximum total variation margin paid to the CCP on any given business	s day over the period						
Disclose			-		_			
6.7.1	Maximum total variation margin paid to the CCP on any given business day over the period	Maximum	Quarterly	USD \$MM	2,289	1,401	1,032	See Explanatory Note from 6.6
	*	•			*	*	•	

Disclosure	Disslayura Description		Fraguangy	Data Tura	I	ICC	NICCO	Fundameterre Natas
Reference	Disclosure Description		Frequency	Data Type	GSD	MBSD	NSCC	Explanatory Notes
Disclosu	rre 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	842	816	1,909	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	ıre 7.1 - Liquidity Risk					· · ·		
7.1.1	State whether the clearing service maintains sufficient liquid resources to 'Cover 1' or 'Cover 2'.		Quarterly/ Quarter End		Cover 1	Cover 1	Cover 1	
7.1.2	Size and composition of qualifying liquid resources for each clearing service; (a) Cash deposited a the currency concerned	at a central bank of issue of		USD \$MM	n/a	n/a	n/a	
7.1.3	Size and composition of qualifying liquid resources for each clearing service; (b) Cash deposited a	at other central banks		USD \$MM	n/a	n/a	n/a	
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	765	700	615	
7.1.5	Size and composition of qualifying liquid resources for each clearing service; (d) Unsecured cash deposited at commercial banks	Commerical Bank Deposits		USD \$MM	1,050	570	1,080	
		Money Market Funds		USD \$MM	3,035	1,758	3,168	
		US Treasury Bills		USD \$MM	n/a	100	n/a	
7.1.6	Size and composition of qualifying liquid resources for each clearing service; (e) secured commit for which collateral/security will be provided by the CCP if drawn) including committed foreign e committed repos			USD \$MM	n/a	21,835	12,100	For MBSD, amount represents a rules-based facility, Capped Contingency Liquidity Facility ("CCLF"). 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 comm the CCP may draw without providing collateral/security)	itted lines of credit (ie which		USD \$MM	n/a	n/a	n/a	
7.1.8	Size and composition of qualifying liquid resources for each clearing service; (g) highly marketab and investments that are readily available and convertible into cash with prearranged and highly arrangements even in extreme but plausible market conditions			USD \$MM	6,021	1,516	290	Amounts include Clearing Fund securities.
7.1.9	Size and composition of qualifying liquid resources for each clearing service; (h) other			USD \$MM	47,000	706	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 resources around monthly option expiry periods. Option expiry settlement cycles typically present elevated liquidity needs to NSCC. Members may be required to provide additional funding based on historical activity, or may voluntarily pre-fund outsize liquidity needs. 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 9/30 there were no SLD deposits on hand) Resources reported in Section 7.1 are as of 12/31/15 and do not correspond to the dates of the actual largest obligations. On the dates of the actual largest obligations sufficient liquidity resources were available.
7.1.10					n/a	n/a	n/a	
7.1.11	Details regarding the schedule of payments or priority for allocating payments, if such exists, and procedure, and governance arrangement around such decision making.	any applicable rule, policy,			n/a	n/a	n/a	

Disclosure	Disclosure Description	Frequency	Data Type	F	сс	NSCC	Explanatory Notes
Reference				GSD	MBSD	NSCC	
Disclosu	re 7.2 - Size and composition of any supplementary liquidity risk resources for each clearing service ab	ove those qualifying	ng liquid resou	rces 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 loans from clearing banks as additional liquidity resources.	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	53,692	15,276	22,282	For GSD and MBSD, values are estimated liquidity obligations that are based on trades that are due to settle the following business day. For NSCC, values are estimated liquidity obligations that are based on an Accelerated Trade Guarantee ("ATG") which covers the multi-day obligations throughout the (T+3) settlement cycle plus the Long Allocation offsets.
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 USD \$MM	0	0	0 0	
7.3.3	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	53,692	19,238	8,637	GSD/MBSD/NSCC did not utilize any of its liquidity resources to cover any member payment obligations. NSCC reflects multi-day settlement obligations. GSD obligations that are based on trades that are due to settle the following business day. MBSD obligations are based on bilateral trades due to settle the next business day.
7.3.4	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	53,692	15,276	22,282	See Explanatory Note from 7.3.1
7.3.5	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 USD \$MM	0	0 0	0	See Explanatory Note from 7.1.9 reference for SLD
Disclosu	re 12.1 - Percentage of settlements by value effected using a DvP, DvD or PvP settlement mechanism				l		
12.1.1	Percentage of settlements by value effected using a DvP settlement mechanism	Quarterly	Percentage	100%	100%	100%	FICC data provided with respect to GSD GCF Repo and non-GCF Repo CCP services and MBSD clearing services.
12.1.2	Percentage of settlements by value effected using a DvD 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 Settlement
12.1.3	Percentage of settlements by value effected using a PvP settlement mechanism		Percentage	n/a	n/a	n/a	mechanism.
Disclosu	re 12.2 - Percentage of settlements by volume effected using a DvP, DvD or PvP settlement mechanism	n		·	1		
12.2.1	Percentage of settlements by volume effected using a DvP settlement mechanism	Quarterly	Percentage	100%	100%	100%	FICC data provided with respect to GSD GCF Repo and non-GCF Repo CCP services and MBSD clearing services.
12.2.2	Percentage of settlements by volume effected using a DvD 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 Settlement mechanism.
12.2.3	Percentage of settlements by volume effected using a PvP settlement mechanism		Percentage	n/a	n/a	n/a	
LI		11		1	1	1	

15.2.7

Additional items as necessary

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closure erence	Disclosure Description	Frequency	Data Type	GSD	FICC	NSCC	Explanatory Notes
isclosu	re 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	Quantitative information related to defaults; Proportion of client positions closed-out/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	
sclosu	re 14.1 - Total Client Positions held as a share of notional values cleared or of the settlement value of	securities transac	tions				
4.1.1	Total Client Positions held in individually segregated accounts	Quarterly/ Quarter End		n/a	n/a	n/a	Not applicable for the US cash markets. See NSCC and FICC Disclosure Frameworks, Principle 1- discussion.
4.1.2	Total Client Positions held in omnibus client-only accounts, other than LSOC accounts			n/a	n/a	n/a	
14.1.3	Total Client Positions held in legally segregated but operationally comingled (LSOC) accounts			n/a	n/a	n/a	
14.1.4	Total Client Positions held in comingled house and client accounts		Percentage	100%	100%	100%	
isclosu	re 15.1 - General business risk					<u>.</u>	
15.1.1	Value of liquid net assets funded by equity	Annual	USD \$MM		214	321	
15.1.2	Six months of current operating expenses		USD \$MM		77	144	
sclosu	re 15.2 - General business risk; Financial Disclosures	l				<u>.</u>	
15.2.1	Total Revenue	Annual	USD \$MM		171	368	
15.2.2	Total Expenditure		USD \$MM		170	311	
15.2.3	Profits		USD \$MM		1	33	
15.2.4	Total Assets		USD \$MM	1!	5,795	5,631	
15.2.5	Total Liabilities		USD \$MM	1	5,580	5,277	
15.2.6	Explain if collateral posted by clearing participants is held on or off the CCP's balance sheet				eral is held ance Sheet	Collateral is held on Balance Sheet	

USD \$MM

n/a

n/a

Disclosure Reference	Disclosure Description	Frequency	Data Type	F GSD	FICC MBSD	NSCC	Explanatory Notes		
	re 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	1	00%	99.65%			
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			
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	4,850	3,128	3,847	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%	97%	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	0%	0%	0%			
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	16%	23%	16%			
16.2.5	Percentage of total participant cash held as cash deposits (including through reverse repo); as cash deposits at commercial banks (Unsecured)		Percentage	22%	19%	22%			
16.2.6	Percentage of total participant cash held as cash deposits (including through reverse repo); in money market funds		Percentage	63%	58%	62%			
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%	USD		
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%	USD		
16.2.16	Percentage of total participant cash invested in securities; weighted average maturity of securities; Specify local currency in comments;		Bus. Days	0	147	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			

Disclosure	Disclosure Description		F	Data Tara	FI	ICC	NICCO	Employed and Maker
Reference	Discosure Description		Frequency	Data Type	GSD	MBSD	NSCC	Explanatory Notes
Disclosu	re 16.2 - How total cash received from participants (16.1) is held/deposited/in	vested, including; (cont'c	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.		Quarterly/ Quarter End		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	
Disclosu	re 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)			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	1W_1M		USD \$MM	0	0	0	
	and up to one year; One year and up to two years; Over two 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:	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	
	and up to one year, one year and up to two years, over two years	1M_1Y		USD \$MM	0	0	0	
		1Y_2Y		USD \$MM	0	0	0	
		2Y+		USD \$MM	0	0	0	
Disclosu	re 17.1 - Operational availability target for the core system(s) involved in clear	ing (whether or not outs	ourced) over spe	cified period for	the system			
17.1.1	Operational availability target for the core system(s) involved in clearing (whether or not outsou for the system	rced) over specified period	Quarterly	Percentage	99.6%	99.6%	99.6%	This target and the actual results below are calculated at the individual product-line level and then averaged across all of the systems identified below, in accordance with the established calculation for the applicable SLA.
Disclosu	re 17.2 - Actual availability of the core system(s) over the previous twelve more	nth period						
17.2.1	7.2.1 Actual availability of the core system(s) over the previous twelve month period		Quarterly	Percentage		99.99%		Availability is calculated across multiple systems. Specifically, CMU, CNS, Risk Management, GSD, MBSD and Trade Capture. Since Risk Management is across FICC and NSCC, actual availability cannot be captured at the individual entity level. Actual availability is across all three in total.
Disclosu	re 17.3 - Total number of failures							
17.3.1	7.3.1 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	10 / 24:37:00			Total number of failures and duration are for Reg SCI reportable failure incidents impacting the CCP systems. Incidents that do not result in a direct business impact are not included. Duration has been adjusted to reflect these criteria.
Disclosu	re 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.

### Q4 2015 (As of December 31, 2015)

isclosure	Disclosure Description	Frequency	Data Type		FICC	NSCC	Explanatory Notes	
eference	Discusare Description	Frequency	Data Type	GSD	MBSD	NSCC	Explanatory Notes	
Disclosu	re 18.1 - Number of clearing members, by clearing service						For GSD, there are Broker/Dealers, Government Sponsored Entities 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	107	77	63	FICC does not distinguish membership categories between members that clear for others and self- clearing. Accordingly, the total number of FICC members are reported here.	
18.1.1.2	Number of direct clearing members		Count	0	0	98		
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 h 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	33	14	11		
18.1.2.4	Number of other participants (Describe in comments)		Count	74	60	150		
18.1.3.1	Number of domestic participants		Count	86	74	159		
18.1.3.1	Number of foreign participants		Count	21	3	2	US Branches/Agencies of Non US legal entities will be considered Non-US (foreign)	

FICC

Disclosure	18.2 - Op	pen Position	Concentration
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18.2.1	For each clearing service with ten or more members, but fewer than 25 members; Percentage of open positions held by the largest five clearing members, including both house and client, in	Average End of Day	Quarterly	Percentage	n/a	n/a	n/a
	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 the largest five clearing members, including both house and client, in aggregate	Average End of Day		Percentage	24%	38%	28%
		Peak End of Day		Percentage	26%	43%	32%
18.2.3	For each clearing service with 25 or more members; Percentage of open positions held by the largest ten clearing members, including both house and client, in aggregate	Average End of Day		Percentage	42%	59%	44%
	argest ten dearing memoris, medaling both house and cheft, in aggregate	Peak End of Day		Percentage	44%	62%	53%

#### Disclosure 18.3 - Initial Margin Concentration

18.3.1	For each clearing service with ten or more members, but fewer than 25 members; Percentage	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
	of initial margin posted by the largest five clearing members, including both house and client, in							Guaranty Funds. NSCC and each FICC Division collect Clearing Fund deposits from their Members using
	aggregate	Peak End of Day		Percentage	n/a	n/a	n/a	a risk-based margin methodology. These amounts operate, individually, as the Member's margin, and
	aggiegate							
18.3.2	For each clearing service with 25 or more members; Percentage of initial margin posted by the	Average End of Day		Percentage	38%	44%	25%	the aggregate of all such Members' deposits* is referred to, collectively, as the Clearing Fund, which
	largest five clearing members, including both house and client, in aggregate							operates as NSCC's and each of FICC Division's default fund.
	in Best und einen Bureinsens, wielen Bister und einen in abei eBare	Peak End of Day		Percentage	41%	53%	27%	
		-						* Member's deposits include excess deposits exceeding the requirement that can be withdrawn by
18.3.3	For each clearing service with 25 or more members; Percentage of initial margin posted by the	Average End of Day		Percentage	54%	60%	43%	
	largest ten clearing members, including both house and client, in aggregate	- ,		-				members.
	largest ten clearing members, including bett nouse and clear, in age egate	Peak End of Day		Percentage	57%	71%	46%	
		- /						

Disclosure	Disclosure Description	Disclosure Description Frequency Data Type		сс	NSCC	Explanatory Notes					
Reference		riequency	Data Type	GSD	MBSD	NSCC	Explanatory Notes				
Disclosu	re 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					
Disclosu	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	63	NSCC: Number denotes members that clear for other Broker/Dealers.				
19.1.3	Percent of client transactions attributable to the top five clearing members (if CCP has 10+ clearing members)		Percentage	n/a	n/a	n/a	See Explanatory Note from 14.1				
19.1.4	Percent of client transactions attributable to the top ten clearing members (if CCP has 25+ clearing members)		Percentage	n/a	n/a	n/a	See Explanatory Note from 14.1				
Disclosu	re 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.				
Disclosu	re 20.2 - FMI Links, Initial Margin or equivalent financial resources provided										
20.2.1	Initial margin or equivalent financial resources provided to each linked CCP by the CCP to cover the potential future exposure of the linked CCP on contracts cleared across link	Quarterly/ Quarter End	USD \$MM	n/a	n/a	n/a	See Explanatory Note from 20.1				
Disclosu	re 20.3 - FMI Links, Initial Margin or equivalent financial resources collected										
20.3.1	Initial margin or equivalent financial resources collected from each linked CCP to cover potential future exposure to the linked CCP on contracts cleared across link (at market value and post-haircut)	Quarterly/ Quarter End	USD \$MM	n/a	n/a	n/a	See Explanatory Note from 20.1				
			L	I	1		1				

Disclosure	Disclosure Description	Disclosure Description Frequency Data Type FICC		сс	NSCC	Explanatory Notes		
Reference			Frequency	Data Type	GSD	MBSD	NSCC	
Disclosu	re 20.4 - FMI Links, Results of Back-testing coverage							
20.4.1	Number of times over the past twelve months that coverage provided by margin and equivalen against each linked CCP fell below the actual marked-to-market exposure to that linked CCP – b results; Intraday or Continuous or Once-a-day		Quarterly	Count	n/a	n/a	n/a	See Explanatory Note from 20.1
20.4.2	Number of observations (i.e. number of accounts multiplied by number of days covered in the b Continuous or Once-a-day	back test); Intraday or		Count	n/a	n/a	n/a	
20.4.3	Achieved coverage level; Intraday or Continuous or Once-a-day			Percentage	n/a	n/a	n/a	
Disclosu	re 20.5 - FMI Links, Additional pre-funded financial resources provided to							
20.5.1	Additional pre-funded financial resources (if any) beyond initial margin and equivalent financial linked CCP, that are available to the linked CCP to cover exposures to the CCP and whether part from the standard default fund	-	Quarterly/ Quarter End	USD \$MM	n/a	n/a	n/a	See Explanatory Note from 20.1
Disclosu	re 20.6 - FMI Links, Additional pre-funded financial resources collected from							
20.6.1	Additional pre-funded financial resources (if any) beyond initial margin and equivalent financial linked CCP, that are available to the linked CCP to cover exposures to the CCP and whether part from the standard default fund		Quarterly/ Quarter End	USD \$MM	n/a	n/a	n/a	See Explanatory Note from 20.1
Disclosu	re 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 va cleared	lues/total notional values	Quarterly/ Quarter End	Percentage	23%	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
20.7.2	Reduction in total initial margin held by the CCP as a result of cross margining, as a percentage of would otherwise have been held.	of total initial margin that		Percentage	2%	n/a	n/a	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		140,442	13,976	31,768,177	For GSD/MBSD and NSCC, average daily volume data is based on sides (as opposed to trades). For NSCC: OTC: Includes OMGEO, NASDAQTRF, MUNI BONDS, FINRA ORF, ETF CR/RD, ECN/QSR, and
		NSCC_Exchange			-	-	79,452,573	CORP/UIT Bonds
23.1.2	Notional Value of trades cleared by Asset Class, CCY and OTC/ETD	отс		USD \$MM	2,983,544	248,419	461,950	For NSCC: Exchange: Includes OCC, NYSE ARCA, NYSE AMEX, NYSE2, NYSE, NASDAQ PHLX, NASDAQ BX, NASDAQ, DIRECT EDGE X, DIRECT EDGE A, CHX, BATS BYX and BATS
		NSCC_Exchange		USD \$MM	-	-	409,928	
Disclosu	re 23.2 - Disclosure of rules, key procedures, and market data; Non-Yet-Settle	d						
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	829,000	244,700	156,800	Sources: FICC and NSCC financial statements, as available in the DTCC public website

isclosure	Disclosure Descript	tion	Frequency	Data Type	F	FICC	NSCC	Explanatory Notes
ference			requercy	Data Type	GSD	MBSD	NSCC	
	rre 23.3 - Disclosure of rules, key procedures, and market ncy: Quarterly	data; Execution Facility						
23.3.1	3.1 Average daily volumes submitted by Execution facility or matching/confirmation venue		Quarterly		n/a	n/a	See 23.1 above	For NSCC: <u>OTC</u> - Includes OMGEO, NASDAQTRF, MUNI BONDS, FINRA ORF, ETF CR/RD, ECN/QSR, and CORP/UI Bonds
23.3.2 Notional contract values submitted by Execution facility or matching/confirmation venue			USD \$MM	n/a	n/a	See 23.1 above	Exchange - Includes OCC, NYSE ARCA, NYSE AMEX, NYSE2, NYSE, NASDAQ PHLX, NASDAQ BX, NASDA DIRECT EDGE X, DIRECT EDGE A, CHX, BATS BYX and BATS	
aymen	t Risk Committee Disclosure 1 - Concentration Measures							·
	Initial Margin Required	Top 3 Members	Quarterly/ Quarter End	USD \$MM	2,029	1,574	506	
	Number of Members with x% of Initial Margin Requirement	> 20%		Count	0	0	0	
		15% to 20%		Count	0	1	0	
		10% to 15%		Count	0	1	0	
		5% to 10%		Count	5	4	3	
		< 5%		Count	110	104	158	
	Total Initial Margin Posted (Market Value)	Total		USD \$MM	10,871	4,644	4,132	
aymen	It Risk Committee Disclosure 2 - Intial Margin Detail	VaR / Volatility	Quarterly/	USD \$MM	6,716	1,918	2,584	The Value-at-Risk (VaR) and Volatililty components are based on the potential price fluctuations of
	initial margin breakdown by component	vary volatility	Quarter End		0,710	1,516	2,304	unsettled positions.
		Coverage Component (CC)		USD \$MM	528	13	n/a	The Coverage Component is a back-test-like component that is meant to address potential model deficiencies.
		Implied Vol Charge		USD \$MM	672	n/a	n/a	The Implied Vol Charge (also known as the Augmented Volatility Multiplier, or AVM) is designed to enhance the performance of the model and enable GSD to more effectively achieve and maintain t

Implied Vol Charge	USD \$MM	672	n/a	n/a	The Implied Vol Charge (also known as the Augmented Volatility Multiplier, or AVM) is designed to enhance the performance of the model and enable GSD to more effectively achieve and maintain the confidence level targeted by GSD.
CME Cross Margin	USD \$MM	-164	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	452	n/a	The 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.
Market to Market (MTM)	USD \$MM	n/a	0	108	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.
Illiquid	USD \$MM	n/a	n/a	43	NSCC may apply an additional charge on positions in OTC Bulletin Board or Pink Sheet securities based on size, average daily volume or price; and financial condition of the participant. This charge is separate from both VaR and SPC.
SPC Charge	USD \$MM	n/a	n/a	63	NSCC applies the Shortened Process Cycle charge based on the amount of positions processed as non- standard settling trades. Since these trades are guaranteed before margin is collected, the SPC charge covers the additional exposure.
Special Charge	USD \$MM	568	1,495	39	Special charges include MBSD's Margin Proxy charge and GSD's backtest charges. The MBSD Margin Proxy charge was developed in October 2013 as an interim solution to immediately address the observed risk margin gaps between MBSD production VaR model and the targeted risk coverage levels.
Other Charges	USD \$MM	214	7	320	