



Q1 2016

# 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		Frequency	Data Type	F	ICC	NSCC	Explanatory Notes
Reference			Frequency	Data Type	GSD	MBSD	NSCC	Explanatory Notes
Disclosu	re 4.1 - Total value of default resources (excluding initial and retained v	variation margin), split by cleari	ng service if defau	It funds are seg	regated by cleari	ng service		
				1	T			
4.1.1	Prefunded - Own Capital Before		Quarterly/ Quarter End	USD \$MM	3	2.1	74.0	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	9,216	4,494	4,624	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	12,103	5,171	5,496	<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 round of participant defaults)		USD \$MM	n/a	n/a	n/a	
4.1.8	Committed - Aggregate participant commitments to address an initial participant defau defaults)	ult (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 (or round of participant defaults) after the initial participant default (or round of partic			USD \$MM	n/a	n/a	n/a	
4.1.10	Committed - Other			USD \$MM	n/a	n/a	n/a	
4.2.1	Ire 4.2 - Kccp - Quarter End Kccp - Kccp need only be reported by those CCPs which are, or seek to be a "qualifying		Quarterly	USD \$MM	303	n/a	n/a	
Disclosu	re 4.3 - Value of pre-funded default resources (excluding initial and ret	ained variation margin) held for	each clearing ser	vice				
4.3.1	Cash deposited at a central bank of issue of the currency concerned	Pre Haircut	Quarterly/	USD \$MM	2,600	1,700	2,500	
		Post Haircut	Quarter End	USD \$MM	2,600	1,700	2,500	
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	700	300	750	
		Post Haircut		USD \$MM	714	306	765	
4.3.4.1	Unsecured cash deposited at commercial banks	Pre Haircut		USD \$MM	1,045	445	945	See Explanatory Note from 4.1
		Post Haircut		USD \$MM	1,045	445	945	
4.3.4.2	Unsecured cash invested in Money Market Mutual Funds	Pre Haircut		USD \$MM	873	915	919	See Explanatory Note from 4.1
		Post Haircut		USD \$MM	873	915	919	
4.3.4.3	Unsecured cash invested in US Treasury Bills	Pre Haircut		USD \$MM	0	100	0	See Explanatory Note from 4.1
		Post Haircut		USD \$MM	0	100	0	

Disclosure	Sclosure Disclosure Description		Frequency Data Type		FICC		NICCO	Explanatory Notes	
Reference	Disclosure Description		Frequency Data Type		GSD	MBSD	NSCC	Explanatory Notes	
Disclosur	re 4.3 - Value of pre-funded default resources (excluding initial and retained va	riation margin) held for	r each clearing ser	vice - Cont'd					
4.3.5	Non-Cash Sovereign Government Bonds - Domestic	Pre Haircut	Quarterly/	USD \$MM	7,190	1,308	404	See Explanatory Note from 4.1	
		Post Haircut	Quarter End	USD \$MM	6,891	1,258	379		
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	244	491	0	See Explanatory Note from 4.1	
		Post Haircut		USD \$MM	214	434	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		
4.4.1	State whether the CCP is subject to a minimum "Cover 1" or "Cover 2" requirement in relation to total pre-funded default resources.		Quarterly						
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				Cover 1	Cover 1	Cover 1		
4.4.3	covered by the default fund.		-	Bus. Days	Cover 1	Cover 1 3	Cover 1 3	This is our risk horizon for liquidation and hedging of market risk.	
4.4.5	covered by the default fund. For each clearing service, the estimated largest aggregate stress loss (in excess of initial margin) that would be caused by the default of any single participant and its affiliates (including	Peak Day/ Previous 12 Months		Bus. Days USD \$MM				This is our risk horizon for liquidation and hedging of market risk.	
	covered by the default fund. For each clearing service, the estimated largest aggregate stress loss (in excess of initial margin) that would be caused by the default of any single participant and its affiliates (including transactions cleared for indirect participants) in extreme but plausible market conditions. (Previous 12 Months)				3 1,214 1,104	3 1,127 773	3 611 233	This is our risk horizon for liquidation and hedging of market risk.	
4.4.4	covered by the default fund. For each clearing service, the estimated largest aggregate stress loss (in excess of initial margin) that would be caused by the default of any single participant and its affiliates (including transactions cleared for indirect participants) in extreme but plausible market conditions.	Previous 12 Months Mean Avg/		USD \$MM	3 1,214	3 1,127	3 611	This is our risk horizon for liquidation and hedging of market risk.	
	covered by the default fund. For each clearing service, the estimated largest aggregate stress loss (in excess of initial margin) that would be caused by the default of any single participant and its affiliates (including transactions cleared for indirect participants) in extreme but plausible market conditions. (Previous 12 Months) Report the number of business days, if any, on which the above amount (4.4.3) exceeded actual	Previous 12 Months Mean Avg/		USD \$MM USD \$MM	3 1,214 1,104	3 1,127 773	3 611 233	This is our risk horizon for liquidation and hedging of market risk.	
4.4.4	covered by the default fund.         For each clearing service, the estimated largest aggregate stress loss (in excess of initial margin) that would be caused by the default of any single participant and its affiliates (including transactions cleared for indirect participants) in extreme but plausible market conditions. (Previous 12 Months)         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).         The amount in 4.4.3 which exceeded actual pre-funded default resources (in excess of initial	Previous 12 Months Mean Avg/ Previous 12 Months Amt Exceeded/		USD \$MM USD \$MM Bus. Days	3 1,214 1,104 0	3 1,127 773 0	3 611 233 0	This is our risk horizon for liquidation and hedging of market risk.	
4.4.4 4.4.5 4.4.6	covered by the default fund.         For each clearing service, the estimated largest aggregate stress loss (in excess of initial margin) that would be caused by the default of any single participant and its affiliates (including transactions cleared for indirect participants) in extreme but plausible market conditions. (Previous 12 Months)         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).         The amount in 4.4.3 which exceeded actual pre-funded default resources (in excess of initial margin) (Previous 12 Months)         For each clearing service, the actual largest aggregate credit exposure (in excess of initial margin) to any single participant and its affiliates (including transactions cleared for indirect participants) (Previous 12 Months)	Previous 12 Months Mean Avg/ Previous 12 Months Amt Exceeded/ Previous 12 Months Peak Day/ Previous 12 Months Avg/ Previous 12 Months		USD \$MM USD \$MM Bus. Days USD \$MM USD \$MM USD \$MM	3 1,214 1,104 0 0 440 27	3 1,127 773 0 0 48 24	3 611 233 0 0 200 7		
4.4.4	covered by the default fund.For each clearing service, the estimated largest aggregate stress loss (in excess of initial margin) that would be caused by the default of any single participant and its affiliates (including transactions cleared for indirect participants) in extreme but plausible market conditions. (Previous 12 Months)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).The amount in 4.4.3 which exceeded actual pre-funded default resources (in excess of initial margin) (Previous 12 Months)For each clearing service, the actual largest aggregate credit exposure (in excess of initial margin) to any single participant and its affiliates (including transactions cleared for indirect participants) (Previous 12 Months)For each clearing service, the estimated largest aggregate stress loss (in excess of initial margin) that would be caused by the default of any two participants and their affiliates	Previous 12 Months         Mean Avg/         Previous 12 Months         Amt Exceeded/         Previous 12 Months         Peak Day/         Previous 12 Months         Avg/         Previous 12 Months         Peak Day/         Previous 12 Months         Peak Day/         Previous 12 Months         Peak Day/         Previous 12 Months		USD \$MM USD \$MM Bus. Days USD \$MM USD \$MM USD \$MM USD \$MM	3 1,214 1,104 0 0 440 27 2,019	3 1,127 773 0 0 48 24 1,531	3 611 233 0 0 200 7 867		
4.4.4 4.4.5 4.4.6	covered by the default fund.For each clearing service, the estimated largest aggregate stress loss (in excess of initial margin) that would be caused by the default of any single participant and its affiliates (including transactions cleared for indirect participants) in extreme but plausible market conditions. (Previous 12 Months)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).The amount in 4.4.3 which exceeded actual pre-funded default resources (in excess of initial margin) (Previous 12 Months)For each clearing service, the actual largest aggregate credit exposure (in excess of initial margin) to any single participant and its affiliates (including transactions cleared for indirect participants) (Previous 12 Months)For each clearing service, the estimated largest aggregate stress loss (in excess of initial margin service, the estimated largest aggregate stress loss (in excess of initial	Previous 12 Months Mean Avg/ Previous 12 Months Amt Exceeded/ Previous 12 Months Peak Day/ Previous 12 Months Avg/ Previous 12 Months Peak Day/		USD \$MM USD \$MM Bus. Days USD \$MM USD \$MM USD \$MM	3 1,214 1,104 0 0 440 27	3 1,127 773 0 0 48 24	3 611 233 0 0 200 7		

isclosure								
eference	Disclosure Description		Frequency	Data Type	F GSD	ICC MBSD	NSCC	Explanatory Notes
	rre 4.4 - Credit Risk Disclosures - Cont'd				GSD	MIBSD		
1301030								
4.4.9	The amount in 4.4.7 which exceeded actual pre-funded default resources (in excess of initial	Amt Exceeded/	Quarterly	USD \$MM	0	0	0	
	margin) (Previous 12 Months)	Previous 12 Months						
4.4.10	For each clearing service, what was the actual largest aggregate credit exposure (in excess of	Peak Day/		USD \$MM	469	48	390	Amount represents Peak/Average VaR model back test results.
	initial margin) to any two participants and their affiliates (including transactions cleared for indirect participants)? (Previous 12 Months)	Previous 12 Months Avg/		USD \$MM	39	24	10	
		Previous 12 Months						
Disclosu	re 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	Website/			http://www.dtcc.	
			are made	Hyperlink			com/~/media/Fil	
					es/Downloads/le	es/Downloads/le	es/Downloads/le gal/rules/nscc_ru	
					v_rules.pdf	sd_rules.pdf	les.pdf	
					v_ruics.pur	su_rules.pur	ics.pui	
					Section:	Section:	Section:	
					<b>"SCHEDULE OF</b>	<b>"SCHEDULE OF</b>	"PROCEDURE	
					HAIRCUTS FOR	HAIRCUTS FOR	XV", "III.	
					ELIGIBLE	ELIGIBLE CLEARING FUND	Collateral Value of Eligible	
					SECURITIES"	SECURITIES"	Clearing Fund	
					SECONTES	SECONTIES	Securities"	
							Securices	
							occurrico	
Disclosu	re 5.2 - Assets Eligible for pre-funded participant contributions to the default r			ed (if differen	-			
iisclosu 5.2.1	Assets Eligible for pre-funded participant contributions to the default r Assets Eligible for pre-funded participant contributions to the default resources, and the respect different from 5.1)		ctive haircuts appli Update as changes are made	ed (if differen	t from 5.1) See 5.1 above	See 5.1 above	See 5.1 above	
5.2.1	Assets Eligible for pre-funded participant contributions to the default resources, and the respect		Update as changes	ed (if differen	-	See 5.1 above		
5.2.1	Assets Eligible for pre-funded participant contributions to the default resources, and the respect different from 5.1)		Update as changes	ed (if differen	-	See 5.1 above		
5.2.1 Disclosu	Assets Eligible for pre-funded participant contributions to the default resources, and the respect different from 5.1) The 5.3 - Results of testing of haircuts		Update as changes are made		See 5.1 above		See 5.1 above	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>Ire 5.3 - Results of testing of haircuts</b> Confidence interval targeted through the calculation of haircuts Assumed holding/liquidation period for the assets accepted		Update as changes are made	Percentage	See 5.1 above	99% 3 Days	See 5.1 above 99% 3 Days	See Explanatory Note from 4.4.2
5.2.1 iisclosu	Assets Eligible for pre-funded participant contributions to the default resources, and the respect different from 5.1) The <b>5.3 - Results of testing of haircuts</b> Confidence interval targeted through the calculation of haircuts		Update as changes are made	Percentage	See 5.1 above	99%	See 5.1 above	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) Tre 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	See 5.1 above	99% 3 Days	See 5.1 above 99% 3 Days	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) Tre 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 Bus. Days	See 5.1 above 99% 3 Days 10 years	99% 3 Days 10 years	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	Assets Eligible for pre-funded participant contributions to the default resources, and the respect different from 5.1) <b>Tre 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	See 5.1 above 99% 3 Days 10 years 0	99% 3 Days 10 years 0	See 5.1 above 99% 3 Days 10 years 0	See Explanatory Note from 4.4.2
5.2.1 iisclosu 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>Tre 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	Treasury Agency Mortgages	Update as changes are made Quarterly	Percentage Bus. Days Bus. Days Bus. Days Bus. Days	See 5.1 above 99% 3 Days 10 years 0 0	99% 3 Days 10 years 0 0	See 5.1 above 99% 3 Days 10 years 0 0	See Explanatory Note from 4.4.2
5.2.1 isclosu 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) The 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 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. The 6.1 - Total initial margin required split by house, client gross, client net and	Treasury Agency Mortgages	Update as changes are made Quarterly	Percentage Bus. Days Bus. Days Bus. Days Bus. Days	See 5.1 above 99% 3 Days 10 years 0 0	99% 3 Days 10 years 0 0	See 5.1 above 99% 3 Days 10 years 0 0	See Explanatory Note from 4.4.2 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) Tre 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 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. Tre 6.1 - Total initial margin required split by house, client gross, client net and	Treasury Agency Mortgages	Update as changes are made	Percentage Bus. Days Bus. Days Bus. Days Bus. Days Bus. Days	See 5.1 above 99% 3 Days 10 years 0 0 0 0	99% 3 Days 10 years 0 0 0	See 5.1 above 99% 3 Days 10 years 0 0 0	
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) Tre 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 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. Tre 6.1 - Total initial margin required split by house, client gross, client net and	Treasury Agency Mortgages total (if not segregated) House (Net)	Update as changes are made	Percentage Bus. Days Bus. Days Bus. Days Bus. Days Bus. Days Bus. Days	See 5.1 above 99% 3 Days 10 years 0 0 0 9,216	99% 3 Days 10 years 0 0 0	See 5.1 above 99% 3 Days 10 years 0 0 0 0 0	See Explanatory Note from 4.1.4 <sup>1</sup> Not applicable. GSD/MBSD/NSCC does not hold client margin. See NSCC/FICC's Disclosure
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) Tre 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 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. Tre 6.1 - Total initial margin required split by house, client gross, client net and	Treasury Agency Mortgages total (if not segregated) House (Net) Client (Gross)	Update as changes are made	Percentage Bus. Days Bus. Days Bus. Days Bus. Days Bus. Days Bus. Days USD \$MM USD \$MM	See 5.1 above 99% 3 Days 10 years 0 0 0 9,216 n/a <sup>1</sup>	99% 3 Days 10 years 0 0 0 0 4,494 <i>n/a</i> <sup>1</sup>	See 5.1 above 99% 3 Days 10 years 0 0 0 0	See Explanatory Note from 4.1.4

Disclosure	Disclosure Description		Frequency	Data Type	l	FICC	NSCC	Explanatory Notes
Reference					GSD	MBSD	NSCC	
Disclosu	re 6.2 - For each clearing service, total initial margin required, split by	house 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	
		Total IM Post Haircut		USD \$MM	n/a	n/a	n/a	
					-	-		

Disclosure	Disclosure Description		Freedom	Data Tura	F	FICC	NICCO	Fundamentary Nation
Reference	Disclosure Description		Frequency	Data Type	GSD	MBSD	NSCC	Explanatory Notes
Disclosu	re 6.2 - For each clearing service, total initial margin required,	split by house and client (or combined t	otal if not segrega	regated) (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	n/a	n/a n/a	n/a	
				USD \$MM	n/a n/a	n/a n/a	n/a n/a	
		Total IM Pre Haircut		USD \$MM	n/a	n/a	n/a	
6.2.12	Non-Cash Commodities - Other	Total IM Post Haircut		USD \$MM USD \$MM	n/a	n/a	n/a	
0.2.12	Non-cash commodities - Other	House IM Pre Haircut 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	
0.2.120		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	

Disclosure	Picelosura Description FICC		Furdametery: Nation								
Reference Disclosure Description		Frequency	Data Type	GSD	MBSD	NSCC	Explanatory Notes				
Disclosure 6.2 - For each clearing service, total initial margin required, split by house a	nd 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.				
6.2.15 Cash deposited at a central bank of issue of the currency concerned; Total (if not segregated)	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					
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		n/a	n/a	n/a					
		are made									
Disclosure 6.4 - Type of initial margin model used (e.g. portfolio simulation or risk agg			key model desi <sub>ế</sub>			1	to that clearing service				
6.4.4 Type of initial margin model used (e.g. portfolio simulation or risk aggregation) for each clearin design parameters for each initial margin model applied to that clearing service	service and the key model	Update as changes are made		Historical Simulation +	Historical Simulation +	Parametric VaR + Haircut					
design parameters for each mittar margin moder applied to that clearing service		aremade		Haircut	Haircut	Valvi Halicut					
Disclosure 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	el 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	174	34	84					
6.5.2 Number of observations ([Number of accounts * number of days])	Previous 12 Months	-	Count	26,609	30,500	34,708					
6.5.3 Achieved coverage level [aggregate CCP-level backtest coverage]	Previous 12 Months		Percentage	99.4%	99.8%	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	18	2	3					
Disclosure 6.6 - Average Total Variation Margin Paid to the CCP by participants each b	usiness										
6.6.1 Average Total Variation Margin Paid to the CCP by participants each business day	Average	Quarterly	USD \$MM	1,454	713	396	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.				
Disclosure 6.7 - Maximum total variation margin paid to the CCP on any given busines	s 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	2,323	1,577	1,178	See Explanatory Note from 6.6				

Disclosure	Disclosure Description		Frequency	Data Type	F	ICC	NSCC	Explanatory Notes
Reference			Frequency	Data Type	GSD	MBSD	NSCC	Explanatory Notes
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	990	658	2,222	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'.				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	2,600	1,700	3,915	
7.1.3	Size and composition of qualifying liquid resources for each clearing service; (b) Cash deposited	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	700	300	750	
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	1,045	445	945	
		Money Market Funds		USD \$MM	873	915	919	
		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	19,310	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	7,435	1,799	404	Amounts include Clearing Fund securities.
7.1.9	Size and composition of qualifying liquid resources for each clearing service; (h) other			USD \$MM	44,082	816	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 3/31 there were no SLD deposits on hand) Resources reported in Section 7.1 are as of 3/31/16 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	State whether the CCP has routine access to central bank liquidity or facilities.				n/a	n/a	n/a	
7.1.11	Details regarding the schedule of payments or priority for allocating payments, if such exists, and procedure, and governance arrangement around such decision making.	any applicable rule, policy,			n/a	n/a	n/a	

Disclosure	Disclosure Description	Frequency	Data Type	FICC		NICCO	Explanatory Notes
Reference	Disclosure Description	Frequency	Data Type	GSD	MBSD	NSCC	Explanatory Notes
Disclosur	re 7.2 - Size and composition of any supplementary liquidity risk resources for each clearing service ab	ove those qualifyin	ng liquid resou	ces 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.	from clearing banks as additional	NSCC can use collateralized loans/equity repo utilizing the cash market securities that were destined to defaulter as collateral.	
Disclosur	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	54,611	11,450	21,705	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	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	54,611	11,450	21,705	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 0	See Explanatory Note from 7.1.9 reference for SLD
Disclosur	re 12.1 - Percentage of settlements by value effected using a DvP, DvD or PvP settlement mechanism						
12.1.1	Percentage of settlements by value effected using a DvP settlement mechanism	Quarterly	Percentage	100%	100%	100%	FICC data provided with respect to GSD GCF Repo and non-GCF Repo CCP services and MBSD clearing services.
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 mechanism.
12.1.3	Percentage of settlements by value effected using a PvP settlement mechanism		Percentage	n/a	n/a	n/a	
Disclosur	re 12.2 - Percentage of settlements by volume effected using a DvP, DvD or PvP settlement mechanism	n					
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	

Disclosure	Disclosure Description	Frequency	Data Type	FICC		NSCC	Explanatory Notes				
Reference		requeitcy	Data Type	GSD	MBSD	NSCC	Explanatory Notes				
Disclosu	Disclosure 13.1 - Quantitative information related to defaults										
13.1.1	Quantitative information related to defaults; Amount of loss versus amount of initial margin	Ad-hoc		n/a	n/a	n/a					
13.1.2	Quantitative information related to defaults; Amount of other financial resources used to cover losses			n/a	n/a	n/a					
13.1.3	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					
Disclosu	are 14.1 - Total Client Positions held as a share of notional values cleared or of the settlement value of	securities transact	ions								

14.1.1	Total Client Positions held in individually segregated accounts	Quarterly/		n/a	n/a	n/a	Not applicable for the US cash markets. See NSCC and FICC Disclosure Frameworks, Principle 14
		Quarter End					discussion.
14 1 2	Total Client Positions held in omnibus client-only accounts, other than LSOC accounts			n/a	n/a	n/a	
14.1.2				.,, 2	.,, .	.,, 2	
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%	

Discl	osure 15.1 - General business risk		Values representative of the 2015 Annual Audited Financial Statements. Values will remain static until publication of the 2016 Annual Audited Financial Statements (Q4 2016).			
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	

Disclosu	ure 15.2 - General business risk; Financial Disclosures		Values representative of the 2015 Annual Audited Financial Statements. Values will remain static until publication of the 2016 Annual Audited Financial Statements (Q4 2016).			
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	15,795	5,631	
15.2.5	Total Liabilities		USD \$MM	15,580	5,277	
15.2.6	Explain if collateral posted by clearing participants is held on or off the CCP's balance sheet			Collateral is held on Balance Sheet	Collateral is held on Balance Sheet	
15.2.7	Additional items as necessary		USD \$MM	n/a	n/a	

Disclosure Reference	Disclosure Description	Frequency	Data Type	GSD	FICC	NSCC	Explanatory Notes
Disclosu	re 15.3 - General business risk; Income breakdown						Values representative of the 2015 Annual Audited Financial Statements. Values will remain static until publication of the 2016 Annual Audited Financial Statements (Q4 2016).
15.3.1	Percentage of total income that comes from fees related to provision of clearing services	Annual	Percentage	1	100%	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	
Disclosu	re 16.1 - Total cash (but not securities) received from participants, regardless of the form in which it is	held, deposited o	or invested, split	by whether it w	as received as initi	al margin or de	fault 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	5,218	3,460	5,114	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	Quarter End	Percentage	50%	51%	49%	
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	13%	9%	15%	
16.2.5	Percentage of total participant cash held as cash deposits (including through reverse repo); as cash deposits at commercial banks (Unsecured)		Percentage	20%	13%	18%	
16.2.6	Percentage of total participant cash held as cash deposits (including through reverse repo); in money market funds		Percentage	17%	27%	18%	
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	56	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		Fraguanay	Data Turno	F	ICC	NECC	Explanatory Notes
Reference	Disclosure 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 counterparty, and the size of that limit.	may be allocated to a single	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.	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)		<b>L</b>	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: 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	1D_1W		USD \$MM	0	0	0	
		1W_1M		USD \$MM	0	0	0	
		1M_1Y		USD \$MM	0	0	0	
		1Y_2Y		USD \$MM	0	0	0	
		2Y+		USD \$MM	0	0	0	
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	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 17.1.1	re 17.1 - Operational availability target for the core system(s) involved in clear Operational availability target for the core system(s) involved in clearing (whether or not outsou		ourced) over spec	cified period for Percentage	99.6%	99.6%	99.6%	This target and the actual results below are calculated at the individual product-line level and then
	for the system							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 mor	th period						
17.2.1	Actual availability of the core system(s) over the previous twelve month period		Quarterly	Percentage		99.93%		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	Total number of failures and duration affecting the core system(s) involved in clearing over the	previous twelve month	Quarterly	Count /		11 / 26:09:00		Total number of failures and duration are for Reg SCI reportable failure incidents impacting the CCP
	period (Duration of Failure)			hh:mm:ss				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.
L				ļ	<u> </u>	ļ	ļ	<u> </u>

## Q1 2016 (As of March 31, 2016)

Disclosure	Disclosure Description	Frequency	Data Tura		FICC	NSCC	Explanatory Notes
eference	Disclosure Description	Frequency	Data Type	GSD	MBSD	NSCC	
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	106	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 has several limited membership categories that are not reported here.
18.1.2.1	Number of central bank participants		Count	0	0	0	
18.1.2.2	Number of CCP participants		Count	0	0	0	
18.1.2.3	Number of bank participants		Count	33	14	11	
18.1.2.4	Number of other participants (Describe in comments)		Count	73	63	150	
18.1.3.1	Number of domestic participants		Count	85	75	159	
18.1.3.1	Number of foreign participants		Count	21	2	2	US Branches/Agencies of Non US legal entities will be considered Non-US (foreign)

18.2.1		Average End of Day	Quarterly	Percentage	n/a	n/a	n/a
	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 the largest five clearing members, including both house and client, in aggregate	Average End of Day		Percentage	25%	41%	28%
	argest rive cleaning members, including both house and client, in aggregate	Peak End of Day		Percentage	27%	43%	31%
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	1	Percentage	43%	63%	44%
	largest ten clearing members, meldung both house and chent, in aggregate	Peak End of Day		Percentage	44%	65%	52%

#### 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
		Peak End of Day		Percentage	n/a	n/a	n/a	· · · · · · · ·
	aggregate			-			-	a risk-based margin methodology. These amounts operate, individually, as the Member's margin, and
18.3.2	For each clearing service with 25 or more members; Percentage of initial margin posted by the	Average End of Day		Percentage	36%	42%	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.
	a Best me clear "B members) meraan B son mode and clear, mage ebute	Peak End of Day		Percentage	40%	49%	32%	
				-				* 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	52%	61%	43%	
	largest ten clearing members, including both house and client, in aggregate			-				members.
	angest ten stearing members, medaning settimente and sherti, in aggi egate	Peak End of Day		Percentage	55%	67%	49%	
				-				

18.4.1 For cor 18.4.2 For	Disclosure Description 18.4 - Segregated Default Fund Concentration or each segregated default fund with ten or more members, but fewer than 25 members; Percentage of participant	Frequency	Data Type	GSD	MBSD	NSCC	Explanatory Notes
18.4.1 For cor 18.4.2 For					INIDSD		
18.4.2 For	or each segregated default fund with ten or more members, but fewer than 25 members; Percentage of participant						
	ontributions 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
	or each segregated default fund with 25 or more members; Percentage of participant contributions to the default fund ontributed by largest five clearing members in aggregate		Percentage	n/a	n/a	n/a	
	or each segregated default fund with 25 or more members; Percentage of participant contributions to the default fund ontributed by largest ten clearing members in aggregate		Percentage	n/a	n/a	n/a	
Disclosure 1	19.1 - Tiered participation arrangements, measures of concentration of client clearing						
19.1.1 Nu	umber of clients (if known)	Quarterly/ Quarter End	Count	n/a	n/a	n/a	See Explanatory Note from 14.1
19.1.2 Nu	umber 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 Per	ercent 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 Per	ercent 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
Disclosure 2	20.1 - FMI Links, Value of Trades						
20.1.1 Val	alue of trades cleared through each link – as a share of total trade values/total notional values cleared in that service	Quarterly	USD \$MM	n/a	n/a	n/a	NSCC does not maintain any interoperable links as described by these items. CDS Clearing and Depository Services, Inc. (the Canadian CSD) is a full service member of NSCC, and is subject to margining and the other requirements of membership as a member. The CDS relationship is described in NSCC's Disclosure Framework under Principle 20. The GSD/CME Cross-Margining Agreement, which is described in GSD's disclosure with respect to PFMI Principle 20, is not an interoperable link as described by sections 20.1 through 20.6 of the quantitative disclosure.
Disclosure 2	20.2 - FMI Links, Initial Margin or equivalent financial resources provided						
	itial margin or equivalent financial resources provided to each linked CCP by the CCP to cover the potential future exposure 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
Disclosure 2	20.3 - FMI Links, Initial Margin or equivalent financial resources collected						
	itial margin or equivalent financial resources collected from each linked CCP to cover potential future exposure to the nked 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

Disclosure	Disclosure Description		Frequency	Data Type	F	ICC	NSCC	Explanatory Notes
Reference			mequency	Data Type	GSD	MBSD		
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	ack 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			1	I	1		
20.5.1	20.5.1 Additional pre-funded financial resources (if any) beyond initial margin and equivalent financial resources provided to each linked CCP, that are available to the linked CCP to cover exposures to the CCP and whether part of, additional to, or separate from the standard default fund			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	20.6.1 Additional pre-funded financial resources (if any) beyond initial margin and equivalent financial resources provided to each linked CCP, that are available to the linked CCP to cover exposures to the CCP and whether part of, additional to, or separate from the standard default fund			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	ues/total notional values	Quarterly/ Quarter End	Percentage	24%	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	3%	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	/olumes						
23.1.1	Average Daily Volumes by Asset Class, CCY and OTC/ETD	OTC	Quarterly		173,447	15,696	38,952,091	For GSD/MBSD and NSCC, average daily volume data is based on sides (as opposed to trades).
		NSCC_Exchange			-	-	95,888,125	For NSCC: OTC: Includes OMGEO, NASDAQTRF, MUNI BONDS, FINRA ORF, ETF CR/RD, ECN/QSR, and CORP/UIT Bonds
23.1.2	Notional Value of trades cleared by Asset Class, CCY and OTC/ETD	ОТС		USD \$MM	3,631,544	277,216	524,417	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	-	-	457,882	
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	856,000	314,000	219,000	Sources: FICC and NSCC financial statements, as available in the DTCC public website
		I		I	I	1		

osure	Distance Description				FI	сс			
rence	Disclosure Description		Frequency	Data Type	GSD	MBSD	NSCC	Explanatory Notes	
	rre 23.3 - Disclosure of rules, key procedures, and market dat ncy: Quarterly	ta; Execution Facility							
23.3.1	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/L Bonds	
3.3.2	Notional contract values submitted by Execution facility or matching/conf	firmation venue	_	USD \$MM	n/a	n/a	See 23.1 above	Exchange - Includes OCC, NYSE ARCA, NYSE AMEX, NYSE2, NYSE, NASDAQ PHLX, NASDAQ BX, NASI DIRECT EDGE X, DIRECT EDGE A, CHX, BATS BYX and BATS	
men	t Risk Committee Disclosure 1 - Concentration Measures		1	1					
	Initial Margin Required	Top 3 Members	Quarterly/ Quarter End	USD \$MM	1,984	1,461	965		
	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	0	0		
		5% to 10%		Count	5	4	4		
		< 5%		Count	109	106	158		
	Total Initial Margin Posted (Market Value)	Total		USD \$MM	12,244	5,256	5,512		
men	It Risk Committee Disclosure 2 - Intial Margin Detail	VaR / Volatility	Quarterly/ Quarter End	USD \$MM	6,532	2,313	3,942	The Value-at-Risk (VaR) and Volatililty components are based on the potential price fluctuations unsettled positions.	
		Coverage Component (CC)		USD \$MM	596	4	n/a	The Coverage Component is a back-test-like component that is meant to address potential mode deficiencies.	
		Implied Vol Charge		USD \$MM	1,633	n/a	n/a	The Implied Vol Charge (also known as the Augmented Volatility Multiplier, or AVM) is designed enhance the performance of the model and enable GSD to more effectively achieve and maintain confidence level targeted by GSD.	
		CME Cross Margin		USD \$MM	-200	n/a	n/a	GSD has a cross-margining arrangement with the Chicago Mercantile Exchange. The amount rep the aggregate margin savings for common members who elect to participate in the cross-margin arrangement.	
		Margin Req. Differential (MRD)		USD \$MM	n/a	435	n/a	The MRD is designed to address position-variability risk by estimating the shortfall of end-of-day and mark-to-market compared with the next day's intraday risk and the risk that the next margin will not be satisfied.	

USD \$MM

USD \$MM

USD \$MM

USD \$MM

USD \$MM

n/a

n/a

n/a

477

177

Market to Market (MTM)

Illiquid

SPC Charge

Special Charge

Other Charges

0

n/a

n/a

1,736

8

32

194

89

29

338

As a cash market CCP, NSCC uses a continuous net system where securities within the settlement

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

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

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.

system are marked daily to the prior night's closing price.

from both VaR and SPC.

covers the additional exposure.