Update date: 27 Feb.20 Tokyo Finacial Exchange

Financial Market Infrastructure: Ouantitative Disclosure

		Principle 4 Credit Risk		Frequ	uency	Clear	ing Service	(Unit : Millions of yen)
Ref.No.		Disclosure Description				Interest Rate Futures	Daily Futures Contracts	Comments
Ret.No.		·		Start Date	End Date	Contracts	Daily Futures Contracts	
4.1		(excluding initial and retained value of	ariation margin)	10010/10/01	2010/12/21			
4.1.1	Prefunded Own Capital	Before Alongside		2019/12/31	2019/12/31	800	1,800	
4.1.3		After		-		0	0	
4.1.4	Prefunded Participant	Required				1,500	13,703	
4.1.5	contributions	Posted	Post-Haircut			7,785	23,758	
	Prefunded Other			2010/12/21	2010/12/21	0	0	
	Committed Own/parent funds Committed Participant	Round of participant defaults Initial round of participant defau	ıl+	2019/12/31	2019/12/31	0	0	
4.1.9	commitments	Replenish the default fund	III.	-		unlimited	unlimited	
	Committed Other	110000000000000000000000000000000000000				0	0	
4.2	KCCP							
4.2.1		ted by those CCPs which are, or	seek to be a "qualifying CCP"	2019/12/31	2019/12/31	14	0	
4.3	under relevant law	ources (excluding initial and reta	nod variation margin) hold for o	ach clearing of	onvice in tota	Land colit by		
4.3.1	Cash	Cash deposited at a central	Pre-Haircut	2019/12/31		- and split by	_	(4.3.3)"Secured cash deposited at
		bank of issue of the currency	Post-Haircut			-	-	commercial banks" refers to the cash
4.3.2		Cash deposited at other central	Pre-Haircut			-	-	deposited at ordinary deposit account or
		banks	Post-Haircut			-	-	fixed deposit account in commercial bank,
4.3.3		Secured cash deposited at	Pre-Haircut	_		3,933	17,613	which does not incur any loss at the
4.2.4		commercial banks	Post-Haircut	4		3,933	17,613	maturity.
4.3.4		Unsecured cash deposited at	Pre-Haircut Post-Haircut	-		0	0	
4.3.5	Non-cash	commercial banks Sovereign Government Bonds -	Pre-Haircut	1		1,089	7,373	
7.5.5	TOTAL COURT	Domestic	Post-Haircut	1		1,066	7,373	
4.3.6	1		Pre-Haircut]
		Other	Post-Haircut			-	-]
4.3.7		Agency Bonds	Pre-Haircut	4		-	-	
4 3 0		Ctate/municipal bands	Post-Haircut	-		-	-	
4.3.8		State/municipal bonds	Pre-Haircut Post-Haircut	-		-		
4.3.9		Corporate bonds	Pre-Haircut	1		-		
			Post-Haircut	1		-	-	
4.3.10		Equities	Pre-Haircut			5,123	986	
			Post-Haircut			3,585	690	
4.3.11		Commodities - Gold	Pre-Haircut	4		-	-	
4.3.12	•	Commodities - Other	Post-Haircut Pre-Haircut	-		-		
7.5.12		Commodices offici	Post-Haircut	1		-	-	
4.3.13		Commodities - Mutual	Pre-Haircut			-	-	
		Funds/UCITs	Post-Haircut			-	-	
4.3.14		Commodities - Other	Pre-Haircut	_		-	-	
4.3.15	In total		Post-Haircut Pre-Haircut	-		10,146		
4.3.15	III total		Post-Haircut	-		8,585	25,572	
4.4	Credit Risk Disclosures		1			3,000		
4.4.1	Whether the CCP is subject to a	a minimum "Cover1" or "Cover2"	requirement in reraqtion to	2019/1/1	2019/12/31	4	3	(4.4.1) The number of expected defaulting
	total pre-funded default resource							members is defined as one Clearing
4.4.2	,	vithin which the CCP assumes it v				1day	1day	Member that would potentially cause the
4.4.3		t would potentially need to be co e stress loss (in excess of initial		-		2,744	15,487	largest credit risk to TFX and several
	margin) that would be caused by		12 months				13/10/	Clearing Members with the lowest amount
	participant and its affiliates (inc	, , ,	Average over previous 12			1,438	7,507	of net assets.
		e but plausible market conditions	months					Interest Rate Futures Contracts: 3
4.4.4	The number of business days, i	f any, on which the above	No. of days			0	2	members / Daily Futures Contracts: 2 members
445	The amount in 4.4.3 which exceeded	Il pre-funded default resources eeded actual pre-funded default		+			204	
4.4.5	resources	eeueu actuai pre-runded derault				-	284 256	$(4.4.3 \sim 4.4.6, 4.4.7 \sim 4.4.10)$ The estimated
	i esoui ces					-	- 250	largest aggregate stress loss (here in after
						-		"ELL") is calculated on the basis of the
						-	-	number of expected defaulting members
						-	-	TFX defines in 4.4.1
						-		
						-	-	
						-	-	1
4.4.6	The actual largest aggregate cre	edit exposure to any single	Peak day amount in previous]		0	0	
	participant and its affiliates		12 months	4				
			Average over previous 12			0	0	
4.4.7	The estimated largest aggregate	e stress loss (in excess of initial	months Peak day amount in previous	1		_	-	
	margin) that would be caused by	•	12 months					
	participants and their affiliates (Average over previous 12	1		-	-	1
	for indirect participants) in extre	eme but plausible market	months					
4.4.8	The number of business days, i	f any, on which the above	No. of days			-	-	
4.4.0	amount (4.4.3) exceeded actua		The han five every	4				
4.4.9		eeded actual pre-funded default	The top rive amount			-	-	
4.4.10	resources The actual largest aggregate cre	edit exposure to anv two	Peak day amount in previous	1		_	-	
	participants and theirits affiliate		12 months					
1			Average over previous 12			-	-]
			months					

	Principle 5 Collateral	Freq	uency	Clear	ring Service				
Ref.No.	Disclosure Description	Start Date	End Date	Interest Rate Futures Contracts	Daily Futures Contracts	Comments			
5.1	Assets eligible as initial margin, and the respective haircuts applied								
5.1.1	Assets eligible, and the respective haircuts applied	-	-	https://www.tfx.co.jp/en	/rules/pdf/a-09_en.pdf	(5.1.1)(5.2.1)10 years is the sample period			
						for calculating haircut ratio since the			
						disclosure document of 1Q 2018.			
5.2	Assets Eligible for pre-funded participant contributions to the default resources, and the respective haircuts applied (if different from 5.1)								
5.2.1	Pre-funded participant contributions to the default resources	-	-	https://www.tfx.co.jp/en	/rules/pdf/b-18_en.pdf				
5.3	Results of testing of haircuts								
5.3.1	Confidedce interval targeted through the calculation of haircut	2019/10/1	2019/12/31	100.00%	100.00%				
5.3.2	Assumed holding/liquidation period for the assets accepted			4days	4days				
5.3.3	Look-back period used for testing the haircuts			1year	1year				
5.3.4	The number of days during the look-back period on which the fall in value during the assumed			0day	0day				
	holding/liquidation period exceeded the haircut on an asset								

		Principle 6 Margin		Frequ	iency		g Service		(Unit : Millions of yen
Ref.No.		Disclosure Description		Start Date	End Date	Interest Rate Futures Contracts	Daily Futures C	ontracts uity Index	Comments
6.1	For each clearing service, total i	nitial margin required, split by h	ouse and client			Contracts	FX Eq	uity Index	
6.1.1	Total initial margin required		House Net	2019/12/31	2019/12/31	254	26,257		(6.1.1)"Total initial margin required" of
			Client Gross Client Net			438	61,848	5,325	TFX_FX and TFX_CFD includes the amount
			Total			692	88,105	6,264	of variation margin.
6.2	For each clearing service, total i			2010/12/21	2010/12/21				(C 1 1 C 2 15) Tabial manning described
6.2.1	Cash deposited at a central bank issue of the currency	House House	Pre Haircut Post Haircut	2019/12/31	2019/12/31	-	-	-	$(6.1.1\sim6.2.15)$ Initial margin deposit for TFX_FX and TFX_CFD is deposited only by
	concerned	Client	Pre Haircut			-	-	-	JPY cash.
		Client Total	Post Haircut Pre Haircut			-	-		
		Total	Post Haircut			-	-	-	(6.2.3)"Secured cash deposited at
6.2.2	· ·	House	Pre Haircut			-	-	-	commercial bank" refers to the cash deposited at ordinary deposit account or
	banks	House Client	Post Haircut Pre Haircut			-	-	-	fixed deposit account in commercial bank,
		Client	Post Haircut			-	-	-	and it does not incur any loss at the
		Total	Pre Haircut			-	-	-	maturity.
6.2.3	Secured cash deposited at	Total House	Post Haircut Pre Haircut			5,141	100,614	8,361	
0.2.3	commercial bank	House	Post Haircut			5,141	100,614	8,361	
		Client	Pre Haircut			2,397	327,634	57,037	
		Client Total	Post Haircut Pre Haircut	_		2,397 7,538	327,634 428,247	57,037 65,398	
		Total	Post Haircut			7,538	428,247	65,398	
6.2.4	Unsecured cash deposited at	House	Pre Haircut			-	-	-	
	commercial banks	House Client	Post Haircut Pre Haircut	_		-	-		
		Client	Post Haircut			-	-	-	
		Total Total	Pre Haircut	_		-	-	-	
6.2.5	Sovereign government bonds -	Total House	Post Haircut Pre Haircut			7,101	-	-	
	domestic	House	Post Haircut]		6,951	-	-	
		Client Client	Pre Haircut Post Haircut	_		1,535	-	-	
		Total	Pre Haircut	1		1,494 8,636	-	<u>-</u>	
		Total	Post Haircut			8,445	-	-	
6.2.6	Sovereign government bonds -	House House	Pre Haircut Post Haircut	-		-	-	-	
	other	Client	Pre Haircut			-	-		
		Client	Post Haircut			-	-	-	
		Total Total	Pre Haircut Post Haircut			-	-	-	
6.2.7	Agency bonds	House	Pre Haircut			-	-	-	
		House	Post Haircut			-	-	-	
		Client Client	Pre Haircut Post Haircut			-	-	-	
		Total	Pre Haircut			-	-	-	
6.2.0		Total	Post Haircut			-	-	-	
6.2.8	State/municipal bonds	House House	Pre Haircut Post Haircut	_		-	-		
		Client	Pre Haircut			-	-	-	
		Client	Post Haircut			-	-	-	
		Total Total	Pre Haircut Post Haircut			-	-		
6.2.9	Corporate bonds	House	Pre Haircut			-	-	-	
		House Client	Post Haircut Pre Haircut	_		-	-	-	
		Client	Post Haircut			-	-	-	
		Total	Pre Haircut			-	-	-	
6.2.10	Equities	Total House	Post Haircut Pre Haircut			27,396	-		
0.2.10	Lydities	House	Post Haircut			19,170	-	-	
		Client	Pre Haircut			453	-	-	
		Client Total	Post Haircut Pre Haircut			317 27,849	-	-	
		Total	Post Haircut			19,487	-	-	
6.2.11	Commodities - Gold	House	Pre Haircut			-	-	-	
		House Client	Post Haircut Pre Haircut			-	-		
		Client	Post Haircut	1		-	-	-	
		Total	Pre Haircut	_		-	-		
6.2.12	Commodities - Other	Total House	Post Haircut Pre Haircut	1		-	-	-	
		House	Post Haircut]		-	-	-	
		Client Client	Pre Haircut Post Haircut	-		-	-	-	
		Total	Pre Haircut	1		-	-	<u>-</u>	
		Total	Post Haircut]		-	-	-	
6.2.13	Mutual funds / UCIT s	House House	Pre Haircut Post Haircut	4		-	-	-	
		Client	Pre Haircut	1		-	-	<u>-</u>	
		Client	Post Haircut]		-	-	-	
		Total Total	Pre Haircut Post Haircut	4		-	-	-	
6.2.14	Other	House	Pre Haircut	1					
		House	Post Haircut			-	-	-	
		Client Client	Pre Haircut Post Haircut	1		-	-	-	
		Total	Pre Haircut	1			-		
C 2 :-	T-1-1	Total	Post Haircut	_		-	-		
6.2.15	lotal	House House	Pre Haircut Post Haircut	_		39,638 31,262	100,614 100,614	8,361 8,361	
		Client	Pre Haircut	1		4,384	327,634	57,037	
		Client	Post Haircut			4,208	327,634	57,037	
		Total Total	Pre Haircut Post Haircut			44,023 35,470	428,247 428,247	65,398 65,398	
6.3	For each clearing service, total i	nitial margin held, split by house	and client						
	Initial margin rates on	Interest Rate Futures Contracts		-	-	https://www.tfx.co.jp/en/h	istorical/futures/s _l	pparam.htm	
	individual contracts where the	FX Daily Futures Contracts	Individual Customers	-		https://www.click365.jp/en	/start/start06 02	.html	
	CCP sets such rates	, . asares contracts							
									1
			Non-individual Customers and			https://www.click365.jp/en	ı/start/start06.htm	nl .	
		Equity Index Daily Futures Cont	Market Makers	-		https://www.click365.jp/enhttps://www.clickkabu365.j			

6.4	Type of initial margin model use	ed (e.g. portfolio simulation or ris	k aggregation) for each clearing	service and t	the key model	design parameters for each	n initial margin i	model applied to	that clearing service
6.4.1	Type of IM model	Interest Rate Futures Contracts		-	-	SPAN® method			(6.4.1)For Transactions by Individual
									Customers of FX Daily Futures contracts,
		FX Daily Futures Contracts	Individual Customers	1		Fixed leverage ratio(x25) i	method		TFX determines the Margin Reference
									Amount based on the maximum leverage
			Non-individual Customers			Historical volatility method			ratio of 25 times as prescribed in the
			Market Makers			Historical volatility method	with the limit o	f maximum	relevant laws and regulations.
			That Rec Hakers			leverage ratio(x25)	with the mine o	i illaxiillalli	
		Equity Index Daily Futures	Customers			Historical volatility method	with the limit o	f maximum	(*1)For Transactions by Individual
		Contracts				leverage ratio(x25)			Customers of FX Daily Futures contracts,
			Market Makers			Historical volatility method			TFX determines the Margin Reference
6.4.2	Type of IM model change effect	ivo dato	Customers	_		1996/4/8	2017/2/27	2019/2/10	Amount based on the maximum leverage
0.4.2	Type of 1M model change effect	ive date	Market Makers	_		1990/4/6	2017/2/27	2018/2/19	ratio of 25 times as prescribed in the
6.4.3	IM model name		i idine i idine i			SPAN®	-	-	. I A has
6.4.4	IM model name change effective	e date		1		-	-	-	confirmed that the ratio fully covers
6.4.5	Single-tailed confidence level	Individual Customers]		99.00%	(*1)	99.00%	confidence level of 99% or more in price
	targeted	Non-individual Customers and	d Market Makers]			99.00%	99.00%	movement data used in stress test with
6.4.6	Single-tailed confidence level ch	nange effective date				(*2)	(*2)	(*2)	respect to at least three major currency
6.4.7	Sample/data look-back period for	or calibrating the model				6months	8weeks or	24weeks	pairs (USD/JPY, EUR/JPY, AUD/JPY).
6.4.0		. 1.1.		_			104weeks(*3)	(+2)	(*2)Since TFX adopted the Financial
6.4.8	Look back period change effecti	ve date nting, if any, applied to histrical d	ata	_		(*2)	(*2)		Resources Framework in July 2015, those
6.4.10	Adjustments change effective d		ata	_		(*2)	(*2)		parameters are reviewed once a year as
6.4.11	Close-out/holding periods	ate				1day	1day		part of the validation of overall risk
6.4.12	Close-out/holding periods effect	tive date		1		(*2)	(*2)	(*2)	management framework.
6.4.13	IM rates link	Interest Rate Futures Contracts				https://www.tfx.co.jp/en/	historical/future	s/spparam.htm	management framework.
						1			(*3)Non-individual Customers and Market
		FX Daily Futures Contracts	Individual Customers			https://www.click365.jp/e	n/start/start06_	_02.html	Makers
			Non-individual Customers and			https://www.click365.jp/e	n/start/start06.	html	1
			Market Makers			,,	., ,		
		Equity Index Daily Futures Cont	racts			https://www.clickkabu365	.jp/en/start/sta	rt05.html	
6.4.14	Frequency of parameter reviews					monthly	weekly	weekly	
	Frequency of parameter reviews		uld include for each alcoring com	vice and each	initial manuals	(*2)	(*2)	(*2)	
6.5	Number of times over the past	margin. At a minimum, this should margin coverage			2019/12/31	model applied to that clea	ning service	40	(Note)(6.5.4)Peak that margin coverage
0.5.1.1	· ·	rket exposure of that member ac		2019/1/1	2019/12/31		o	40	held against a clearing member fell below
	testing results	rket exposure or that member at	.count - based off daily back-						the actual marked-to-market exposure of
6.5.1.2	Frequency of daily back-testing	result measurements		1		daily	daily	daily	that member account - based on daily back-
				1		17:00:00	6:00:00	6:00:00	tecting recults
6.5.2	Number of observations					3,594	6,223	4,573	testing results.
									(Note)(6.5.5)Average that margin coverage
6.5.3	Achieved coverage level					100.00%	100.00%	99.13%	held against a clearing member fell below
6.5.4	Where breaches of initial margin	n coverage have occurred	Peak	-		0	0	304	the actual marked-to-market exposure of
0.5.4	report on size of uncovered exp	,	T Gain			ا	J	394	that member account - based on daily back-
6.5.5	Where breaches of initial margin		Average	1		0	0	36	testing results.
	report on size of uncovered exp		_						J
6.6		Paid to the CCP by participants e							
6.6.1	Average Total Variation Margin			2019/10/1	2019/12/31	44	2,079	298	
6.7		paid to the CCP on any given by		2010/10/1	2010/12/21	206	10.000	1.013	
6.7.1 6.8		n paid to the CCP on any given bu gin call on any given business da		2019/10/1	2019/12/31	206	10,000	1,012	
6.8.1	Maximum aggregate initial marg			2019/10/1	2019/12/31	24	1,216	88	
		J 2 2 , g	, 	// 1	,, 51		-,0		1

Unit	:	Millions	of	yer

		rinciple 7 Liquidity Risk	Frequ	lonev	Cloar	ing Service	(Unit : Millions of yen)
	P	rinciple / Liquidity RISK	Frequ	dericy		ing Service	Community
Ref.No.		Disclosure Description	Start Date	End Date	Interest Rate Futures Contracts	Daily Futures Contracts	Comments
7.1	Liquidity Risk						
7.1.1	State whether the clearing serv	rice maintains sufficient liquid resources to 'Cover 1' or 'Cover 2'.	2019/12/31	2019/12/31	4	3	(7.1.1)The number of expected defaulting
							members is defined as one Clearing
7.1.2	Size and composition of	(a) Cash deposited at a central bank of issue of the currency			0	0	Member that would potentially cause the
	qualifying liquid resources for	concerned					largest liquidity risk to TFX and several
7.1.3	each clearing service	(b) Cash deposited at other central banks			0	0	Clearing Members with the lowest amount
7.1.4		(c) Secured cash deposited at commercial banks (including			0	185,069	of net assets. Interest Rate Futures Contracts :
		reverse repo)					
7.1.5		(d) Unsecured cash deposited at commercial banks			0	0	3members / Daily Futures Contracts :
			_				2members.
7.1.6		(e) secured committed lines of credit (ie those for which			0	0	
		collateral/security will be provided by the CCP if drawn)					(7.1.4)"Secured cash deposited at
		including committed foreign exchange swaps and committed					commercial bank" refers to the cash
		repos					deposited at ordinary deposit account or
7.1.7		(f) unsecured committed lines of credit (ie which the CCP may			29,000	0	fixed deposit account in commercial bank,
		draw without providing collateral/security)					which does not incur any loss at the
7.1.8		(g) highly marketable collateral held in custody and			0	0	maturity.
		investments that are readily available and convertible into cash					macurity.
		with prearranged and highly reliable funding arrangements					(7.4.7) 7
		even in extreme but plausible market conditions					(7.1.7)The liquidity supply facilities are set
7.1.9		(h) other			0	0	with several commercial banks designated
7.1.10		tine access to central bank liquidity or facilities			None.		as the Settlement Banks and TFX can utilize
7.1.11	Details regarding the schedule	of payments or priority for allocating payments, if such exists,			https://www.tfx.co.jp/en/	/rules/pdf/a1a08_en.pdf	the funds within the same day upon taking
	and any applicable rule, policy,	procedure, and governance arrangement around such decision					procedural steps provided in the applicable
	making.						agreements.
7.2		pplementary liquidity risk resources for each clearing service above	sources above.				
7.2.1	Size and composition of any su	pplementary liquidity risk resources for each clearing service	-	-		4,053	
	above those qualifying liquid re	sources in 7.1					

7.3	Liquidity Risk					
7.3.1	Estimated largest same-day and, where relevant, intraday and	SameDayPayment_Total	2019/1/1	2019/12/31	3,225	25,688
	multiday payment obligation ("ELPO") in total that would be	SameDayPayment			3,225	25,688
	caused by the default of any single participant and its affiliates	IntraDayPayment			-	-
	in extreme but plausible market conditions	MultiDayPayment			-	-
7.3.2	Report the number of business days, if any, on which the above	amount exceeded its qualifying			0	0
	liquid resources (identified as in 7.1, and available at the point	the breach occurred), and by				
	how much; No. of days in quarter					
7.3.3	Number of business days, if any, on which the above amount ex	ceeded its qualifying liquid			0	0
	resources (identified as in 7.1, and available at the point the bre	ach occurred), and by how				
	much; Amount of excess on each day					
7.3.4	Actual largest intraday and multiday payment obligation of a	SameDayPayment_Total			192	2,549
	single participant and its affiliates (including transactions	SameDayPayment			192	2,549
	cleared for indirect participants) over the past twelve months;	IntraDayPayment			-	-
	Peak day amount in previous twelve months	MultiDayPayment			-	-
7.3.5	Estimated largest same-day and, where relevant, intraday and r	nultiday payment obligation in			-	-
	each relevant currency that would be caused by the default of a	ny single participant and its				
	affiliates (including transactions cleared for indirect participants)	in extreme but plausible				
	market conditions					
7.3.6	Number of business days, if any, on which the above amounts e	exceeded its qualifying liquid			-	-
	resources in each relevant currency (as identified in 7.1 and ava	ilable at the point the breach				
	occurred), and by how much					
7.3.7	Report the number of business days, if any, on which the above	amounts exceeded its			-	-
	qualifying liquid resources in each relevant currency (as identifie	d in 7.1 and available at the				
	point the breach occurred), and by how much: Amount of excess	s on each dav				

	Principle 13 Default rules and Procedures			uency	Clear	ing Service	
Ref.No.		Disclosure Description	Start Date	End Date	Interest Rate Futures Contracts	Daily Futures Contracts	Comments
13.1	Quantitative information related	to defaults					
13.1.1	Quantitative information	Amount of loss versus amount of initial margin	2019/10/1	2019/12/31	-	-	
13.1.2	related to defaults	Amount of other financial resources used to cover losses			-	-	
13.1.3.		Proportion of client positions closed-out			-	-	
13.1.3.		Proportion of client positions ported			-	-	
13.1.4		Appropriate references to other published material related to			-	-	
		the defaults					

Principle 14 Segregation and Portability		Frequency		Clear	ing Service				
Ref.No.	Disclosure Description	Start Date	End Date	Interest Rate Futures	Daily Futures Contracts	Comments			
Kei.No.	Disclosure Description	Start Date	Life Date	Contracts	bany rutures contracts				
14.1	Total Client Positions held as a share of notional values cleared or of the settlement value of securities transactions								
14.1.1	Total Client Positions held in individually segregated accounts	2019/12/31	2019/12/31	0.00%	100.00%				
14.1.2	Total Client Positions held in omnibus client-only accounts, other than LSOC accounts			100.00%	0.00%				
14.1.3	Total Client Positions held in legally segregated but operationally comingled (LSOC) accounts			0.00%	0.00%				
14.1.4	Total Client Positions held in comingled house and client accounts			0.00%	0.00%				

(Unit: Millions of yen)

	Principle15 General Business Risk	Frequ	uency	Clear	ing Service	
Ref.No.	Disclosure Description	Start Date	End Date	Interest Rate Futures Contracts	Daily Futures Contracts	Comments
15.1	General business risk					
15.1.1	Value of liquid net assets funded by equity	2018/4/1	2019/3/31		18,506	
15.1.2	Six months of current operating expenses				1,453(*4)	
15.2	General business risk; Financial Disclosures					
15.2.1	Total Revenue (Operating revenue)	2018/4/1	2019/3/31		6,619	(*5) Cash collateral is held on the balance
15.2.2	Total Expenditure (Operating expenditure)				6,855	sheet. Non-Cash collateral is held off the
15.2.3	Profits				-236	balance sheet.
15.2.4	Total Assets				532,342	
15.2.5	Total Liabilities				511,036	
15.2.6	Explain if collateral posted by clearing participants is held on or off the CCP's balance sheet				(*5)	
15.2.7	Additional items as necessary				-	
15.3	General business risk; Income breakdown					
15.3.1	Percentage of total income that comes from fees related to provision of clearing services	2018/4/1	2019/3/31		90.17%	(15.3.1) Trading service fees include
15.3.2	Percentage of total income that comes from the reinvestment (or rehypothecation) of assets				0.49%	clearing service fees.
	provided by clearing participants					

^(*4) Six months of current operating expenses after subtracting the following items.

	Principle 16 Custody and Investment Risks	3	Frequ	iency	Clear	ing Service	(Unit: Millions of yen)
Ref.No.	Disclosure Description		Start Date	End Date	Interest Rate Futures Contracts	Daily Futures Contracts	Comments
16.1	Total cash (but not securities) received from participants, regardles	ss of the form in which it is he	<u>'</u>		plit by whether it was rece	eived as initial margin or default t	fund contribution
16.1.1	Initial margin		2019/12/31	2019/12/31	7,538	493,646	
16.1.2	Default fund, received from participants				3,133	15,813	
16.2	How total cash received from participants (16.1) is held/deposited/	invested, including;					
16.2.1	Percentage of this total participant cash held as cash deposits		2019/12/31	2019/12/31	100.00%	100.00%	(16.2.4)"Secured: as cash deposits at
16.2.2	Percentage held: as cash deposits at central banks of issue of the	currency deposited			0.00%	0.00%	commercial banks" refers to the cash
	Percentage held: as cash deposits at other central banks				0.00%	0.00%	deposited at ordinary deposit account or
16.2.4	Percentage held: as cash deposits at commercial banks (Secured,	including through reverse			100.00%	100.00%	fixed deposit account in commercial bank,
16.2.5	Percentage held: as cash deposits at commercial banks (Unsecure	d)			0.00%	0.00%	which does not incur any loss at the
16.2.6	Percentage held: as cash deposits in money market funds				0.00%	0.00%	maturity.
16.2.7	Percentage held: as cash deposits in other forms				0.00%	0.00%	maturity.
16.2.8	Percentage split by currency of these cash deposits Lo	ocal currency, JPY			100.00%	100.00%	
16.2.9	Percentage held as cash deposits				100.00%	100.00%	(*6) All cash received from participants is
	Weighted average maturity of these cash deposits and money mark	ket funds			(*6)	0.47 years	deposited at ordinary deposit account in
16.2.10	Percentage of total participant cash invested in securities; Domestic	c sovereign government			-	0.00%	commercial banks.
16.2.11	Percentage of total participant cash invested in securities; Other so	vereign government bonds			-	-	
16.2.12	Percentage invested in : agency bonds				-	-	(16.2.18) Investment is made obeying the
16.2.13	Percentage invested in : state/municipal bonds				-	-	management and operation rules for
16.2.14	Percentage invested in : other instruments				-	-	collateral.
16.2.15	Percentage split by currency of these securities				-	0.00%	conaccian
16.2.16	Weighted average maturity of these securities				-	-	
16.2.17	Estimate of the risk on the investment portfolio				-	-	
16.2.18	Investment policy sets a limit on the proportion of the investment p	portfolio that may be			-	-	
	allocated to a single counterparty, and the size of that limit						
16.2.19	Number of times over the previous quarter in which this limit has b	een exceeded			-	-	
16.2.20	Percentage of total participant cash held as securities				0.00%	0.00%	
16.3	Rehypothecation of participant assets (ie non-cash)						
16.3.1	Total value of participant non-cash rehypothecated In	itial margin	2019/12/31	2019/12/31	-	-	(16.3) Participant assets are not
16.3.2	Total value of participant non-cash rehypothecated De	efault fund			-	-	rehypothecated by TFX.
16.3.3	Maturities In	itial margin			-	-	
16.3.4	Maturities De	efault fund			-		

^{1.} The amount of depreciation expence.

^{2.} Trading service fees received from Market Maker include the incentive program fees (3,083million yen) to be passed through trading members. Both Total revenue and Total expenditure on the Financial Statements include the incentive program fees.

	Principle 17 Operational Risk			Clear	ing Service					
Ref.No.	Disclosure Description		End Date	Interest Rate Futures	Daily Futures Contracts	Comments				
Kei.No.	Disclosure Description	Start Date	Liid Date	Contracts	Daily I dedies contracts					
17.1	1 Operational availability target for the core system(s) involved in clearing (whether or not outsourced) over specified period for the system (e.g. 99.99% over a twelve-month period)									
17.1.1	Operational availability target for the core systems involved in clearing over specified period for	-	-	100.00%	100.00%					
	the system									
17.2	Actual availability of the core system(s) over the previous twelve month period									
17.2.1	Actual availability of the core system(s) over the previous twelve month period	2019/1/1	2019/12/31	100.00%	100.00%					
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	2019/1/1	2019/12/31	0	0					
	previous twelve month period									
17.4	Recovery time objective(s)									
17.4.1	Recovery time objective(s) (e.g. within two hours)	-	-	2hours	2hours					

Principle 18 Access and Participation Requirements				Frequency		Clear	ing Service		
Ref.No.		Disclosure Description			End Date	Interest Rate Futures Contracts	Daily Futures Contracts	Comments	
18.1 Number of clearing members, by clearing service									
	Number of General clearing me			2019/12/31	2019/12/31	29	0		
18.1.1.2	Number of Direct clearing mem	bers				1	27		
	Number of Others category					0	0		
18.1.2.1	Number of Central bank particip	oants				0	0		
	Number of CCP participants					0	0		
	Number of Bank participants					12	4		
18.1.2.4	Number of Other participants					18	23		
18.1.3.1	Number of Domestic participant	ts				29	25		
	Number of Foreign participants					1	2		
	Open Position Concentration								
18.2.1	Fewer than 25 members	Largest 5 members	Peak	2019/10/1	2019/12/31	-	-		
			Average			-			
18.2.2	25 or more members	Largest 5 members	Peak			73.56%	68.21%		
			Average			68.42%	67.75%		
18.2.3		Largest 10 members	Peak			95.34%	83.48%		
			Average			93.91%	82.85%		
18.3	Initial Margin Concentration								
18.3.1	Fewer than 25 members	Largest 5 members	Peak	2019/10/1	2019/12/31	-			
			Average			-			
18.3.2	25 or more members	Largest 5 members	Peak			74.19%	77.56%		
			Average			73.49%	77.18%		
18.3.3		Largest 10 members	Peak			91.41%	89.76%		
			Average			90.97%	89.31%		
18.4 Segregated Default Fund Concentration									
18.4.1	Fewer than 25 members	Largest 5 members	Quarter end	2019/12/31	2019/12/31	-	-		
18.4.2	25 or more members	Largest 5 members	Quarter end			16.67%	76.09%		
18.4.3		Largest 10 members	Quarter end			33.33%	92.62%		

Principle 19 Tiered Participation Arrangements				Frequency		Clear	ring Service		
Ref.No.		Disclosure Description		Start Date	End Date	Interest Rate Futures Contracts	Daily Futures Contracts	Comments	
19.1	Tiered participation arrangements, measures of concentration of client clearing								
19.1.1	Number of clients (accounts)			2019/10/1	2019/12/31	-	1,255,787		
19.1.2	2 Number of direct menbers that clear for clients					30	21		
19.1.3.1	Percent of client transactions	Attributable to the top five	Peak			100.00%	79.37%		
19.1.3.2		clearing menbers	Average			95.73%	74.12%		
19.1.4.1		Attributable to the top ten	Peak			100.00%	94.47%		
19.1.4.2		clearing menbers	Average	1		100.00%	91.36%		

(other runnors or year									
Principle 23 Disclosure of Rules, Key Procedures, and Market Data			Frequency		Clearing Service				
Ref.No.	Disclosure Description			End Date	Interest Rate Futures	Daily Futures Contracts		Comments	
Kei.ivo.					Contracts	FX	Equity Index		
23.1	Disclosure of rules, key procedures, and market data; Average Daily Volumes								
23.1.1	Average daily volumes			2019/12/31	2,994lots	78,275lots	33,241lots		
23.1.2	Average notional value of trades cleared				299,373	67,250	79,902		
23.2	Segregated Default Fund Concentration								
23.2.1	Gross notional outstanding/total settlement value of novated but not-yet settled securities transactions			2019/12/31	5,853,266	1,338,274	623,468		
23.2.2	Asset class				Interest Rate	FX	Equity Index		
23.2.3	Product type				Futures/Option	Forex	CFD		
23.2.4	Product code	Bloomberg			YEA	JNUSCFD	TFXJNKY		
		Reuters			0#JEY	0#TFXFX	TFX/CFD/INDEX		
23.3	Disclosure of rules, key procedures, and market data; Execution Facility								
23.3.1	Average daily volumes submitted by Execution facility or matching/confirmation venue			2019/12/31	2,994lots	78,275lots	33,241lots		
23.3.2	Notional contract values submitted by Execution facility or matching/confirmation venue				0	67,250	79,902		