March 20, 2014 Japan Securities Clearing Corporation

#### I. Purpose

Under JSCC's current clearing system for JGB OTC transactions, the risk management system is structured in such manner that if loss arises as a result of a Clearing Participant's default, such loss shall be compensated with initial margin, etc. deposited by the defaulting Clearing Participants, in the first place, and, if there is any shortage, Clearing Participants other than the defaulting Clearing Participant are to compensate losses, such as parties to the original transactions being requested to compensate such losses after the fact.

With respect to such risk management system, JSCC will conduct necessary system revision, such as the revision of calculation method, etc. for initial margin, the introduction of a clearing fund system as a contributory financial resource to cover losses from defaults of Clearing Participants in extreme but plausible market conditions, and the revision of specific methods of compensation for losses by Clearing Participants other than defaulting Clearing Participants, to have such system compliant with the international regulations, such as the CPSS-IOSCO Principles for Financial Market Infrastructures, etc. and thereby enhance JSCC's international competitiveness.

II. Overview

	Item	Description	Remarks
1.	Revision of		
	Calculation		
	Method, etc. for		
	Initial Margin		
(	1) Revision of	• In order ensure higher reliance level in respect of initial margin for covering loss	

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Item	Description	Remarks
Calculation	arising from default of Clearing Participants, the calculation parameters for, and	
Method, etc. of	the rules for the revision of the established value of, a risk factor by each issue in	
Market Value	relation to Japanese government bonds restructuring cost used for calculation of	
Fluctuation Risk	initial margin (hereinafter referred to as "Market Value Fluctuation Risk Factor")	
Factor	will be revised in the following manner:	
a. Calculation	·Market Value Fluctuation Risk Factor shall be calculated in accordance with the	•Current parameters are as follows:
parameters for	following parameters:	(i) Confidence interval: $2\sigma$ (One-sided confidence level:
Market Value	(i) Confidence interval: $2.33\sigma$ (One-sided confidence level: 99%)	97.7%)
Fluctuation Risk	(ii) Observation period: 250 business days	(ii) Observation period: 120 business days
Factor	(iii) Holding period: 3 business days	(iii) Holding period: 1 business day
		·As for the 3-day holding period, Moving-Window method
		will be used for the calculation.
b. Rules for Revision	$\cdot$ Market Value Fluctuation Risk Factor shall be reviewed on a weekly basis, and the	$\cdot$ Currently, the factor is reviewed on a monthly basis using the
of Established	value calculated for the business day just before the last business day of a given	calculated value as of respective month-end.
Value of Market	week shall be used as the established value for the following week.	$\cdot$ Even when there is no change for the established value of the
Value Fluctuation	$\cdot$ Specifically, based on the calculated value for the business day just one day before	risk factor, notification needs to be forwarded.
Risk Factor	the last business day of a given week, review is implemented, and its result shall be	
	notified to Clearing Participants on the last business day. The said value shall be	
	used as the new established value commencing on the first business day of the	
	following week (to be deposited on the second business day).	
	$\cdot$ In case the established value for Market Value Fluctuation Risk Factor is to be	

Item	Description	Remarks
	lowered, 1.5x the calculated value or the maximum during the past two years is	
	used as its floor. However, this stipulation shall be abolished.	
(2) Introduction of	·We will calculate the equivalent of transaction execution cost which is needed	•The Equivalent of Transaction Execution Cost, which is
Market Impact	when position should be restructured due to default of Clearing Participant	needed when position is restructured, means the cost
Charge	(hereinafter "Equivalent of Transaction Execution Cost"), and add the Equivalent	expected to arise due to the bid-asked spread (discrepancy
	of Transaction Execution Cost as the deemed Market Impact Charge to the	between selling price and buying price) during the process
	Required Initial Margin Base Amount as one of its components.	when we will try to restruct the same position as before in the market.
		the market.
	· In accordance with the below process, we will calculate the Equivalent of	•Unit for criterial spread is bp. However, unit of criterial
	Transaction Execution Cost, and will deem it as the Required Market Impact	spread of Japanese government bonds with floating rate is
	Charge. (See Annex 1)	yen (amount of discrepancy).
	(i) Determination of criterial spread	
	Based on the data for bid-asked spread, discrepancy from the appraised market	•Data for the actual bid-asked spread will be obtained by
	value (criterial spread) shall be determined, referencing the position scale of each .	collecting filled-out market survey from Clearing
	issue.	Participants who are Financial Instruments Business
		Operators, from among "JGB Market Special Participants ( <i>primary dealers</i> )" designated by the Ministry of Finance
		Japan.
		•As for the criterial spread level, quarterly review will be

Item	Description	Remarks
		implemented.
		$\cdot$ As appraised market values, we will use what we will
		compile based on the reference statistical prices for
		over-the-counter transactions published by Japan Securities
		Dealers Association.
	(ii) Calculation of the Equivalent of Transaction Execution Cost for each issue	
	Modulus of the quantity of offsetting position for each issue shall be multiplied	•The quantity of offsetting position for each issue represents
	by BPV (basis point value) as well as by criterial spread (only criterial spread is	the remaining balance of the quantity after netting the
	used in case of Japanese government bonds with floating rate), to	obligation of respective Clearing Participant to deliver JGB
	calculate the Equivalent of Transaction Execution Cost for each issue.	to JSCC and the obligation of JSCC to deliver JGB to the
		Clearing Participant (both quantity basis) for each issue on
		all settlement dates.
		$\cdot$ BPV is an index to show the variation in value when interest
		rate moves by 1bp.
	(iii) Calculation of the Required Market Impact Charge for each Clearing Participant	
	The Equivalent of Transaction Execution Cost for each issue shall be added	$\cdot$ In case of a Clearing Participant who keeps 2 or more netting
	together for all issues concerning a specific Clearing Participant, to calculate the	accounts, the Required Market Impact Charge will be
	Required Market Impact Charge for the said Clearing Participant.	calculated for each of the netting accounts.
		$\cdot$ When a trust bank designates Initial Margin Groups, the
		Required Market Impact Charge will be calculated for each
		of the Initial Margin Groups.

Item	Description	Remarks
(3) Additional initial	$\cdot If$ and when we deem it necessary in view of the credit standing of a Clearing	·For specific mark-up level of initial margin in view of the
margin in line	Participant, we may ask the participant to deposit certain additional initial margin to	credit standing of Clearing Participants, refer to Annex 2.
with the credit	better reflect their credit situation.	
standing of	$\cdot$ We will abolish the current stipulation to call for additional initial margin based on	
Clearing	the capital-to-risk ratio and the solvency margin ratio whether non-consolidated or	
Participant	consolidated. (See Annex 3)	
	$\cdot$ We will revise the multiplier to be applied to the Required Initial Margin Base	
	Amount when net worth or the like becomes too small relative to the Required	
	Initial Margin Base Amount. (See Annex 3)	
(4) Handling of	·We will revise the trigger level for calling additional deposit of initial margin,	
additional deposit	additional deposit amount calculation base and date of application of adhoc change	
of initial margin at	of Market Value Fluctuation Risk Factor and the like at the time of market price	
the time of market	fluctuation. (See Annex 4)	
price fluctuation		
2. Introduction of		
Clearing Fund		
system		
(1) Objective of	• With regard to JSCC's clearing services for JGB OTC transactions, Clearing	
Clearing	Participants are required to deposit JGB OTC transaction clearing fund	
Fund	(hereinafter "Clearing Fund"), in order to secure risks that are not covered by	

Item	Description	Remarks
	initial margin (hereinafter referred to as "IM") deposited by Clearing Participants.	
(2) Required Amount of Clearing Fund	• The required amount of Clearing Fund shall be an amount sufficient to cover losses that would be arising from a shortage of IM from defaulting Clearing Participants in the event of defaults of multiple Clearing Participants in extreme but plausible market conditions (under stressed conditions).	• JSCC shall perform calculations and give notices regarding the required amount of Clearing Fund.
	• The required amount of Clearing Fund for each Clearing Participant shall be the sum of the largest and the second largest Risk Amounts Exceeding Collateral (defined below) of Clearing Participants (if one Corporate Group has multiple Clearing Participants, the sum of Risk Amounts Exceeding Collateral of all Clearing Participants in the same Corporate Group) prorated according to the Required Initial Margin Base Amount of the Clearing Participant, provided that if the amount so obtained is less than the minimum requirement, then the required amount of Clearing Fund shall equal to the minimum requirement. "Risk Amount Exceeding Collateral" means the expected loss upon default of a Clearing Participant under stressed conditions exceeding the Required Initial Margin Amount. (See Annex 5)	<ul> <li>The minimum required amount shall be 100 million yen.</li> <li>The amount of losses arising at the time of defaults of Clearing Participants under stressed conditions shall be the largest amount of losses assumed in 12 stress scenarios (see Annex 6), which are generated as combinations of principal components of historical yield curve variations extracted from historical yield curve variation data by using principal component analysis method, and the most volatile fluctuations observed in the market in the past.</li> <li>For a Clearing Participant holding multiple netting accounts, Risk Amount Exceeding Collateral shall be calculated based on the net position of such multiple accounts.</li> <li>If the Clearing Participant is a trust bank, Risk Amount Exceeding Collateral for trust account and for house account shall be calculated separately.</li> <li>If a trust bank designates IM groups, Risk Amount Exceeding</li> </ul>

Fund	<ul> <li>The required amount of Clearing Fund shall be calculated on a weekly basis on the business day immediately preceding the last business day of the week.</li> <li>If any insufficiency has occurred for the deposited amount of Clearing Fund, the additional deposit shall be made by 11:00 a.m. on the business day immediately following the date of occurrence of insufficiency (date of calculation).</li> <li>As for Clearing Fund, the deposit of substituting Japanese government bonds (hereinafter referred to as "JGB") in lieu of cash may be accepted.</li> </ul>	<ul> <li>Collateral shall be calculated for each of such group and the sum of Risk Amount Exceeding Collateral of all IM groups of the trust bank shall apply as Risk Amount Exceeding Collateral for the trust account of such trust bank.</li> <li>Even if a trust bank is included in a corporate group, Risk Amount Exceeding Collateral of a trust account of the trust bank shall not be combined with Risk Amount Exceeding Collateral of other Clearing Participants included in the said corporate group.</li> <li>Substituting JGB shall be subject to haircuts determined in light of price fluctuations.</li> </ul>
3. Revision of Loss Compensation Scheme		

Item	Description	Remarks
(1) Classification of	· Method of covering losses from a default of a Clearing Participant by	· The methods of covering losses applicable to Clearing
Loss Compensation	non-defaulting Clearing Participants shall be classified as follows:	Participants shall be fixed and may not be changed.
by Non-defaulting	i. The trust accounts of trust banks: The method to compensate losses caused	• Since a trust account transaction is executed by a trust bank
Clearing	by defaults in line with their proportion of transactions with defaulting	based on an instruction from a settlor who manages
Participants	Clearing Participants (hereinafter "Proportion of Original Transactions")	counterparty risks, the method of trust property covering
	(such method is hereinafter referred to as the "Original Transactions	losses arising from such transaction (the Original
	Prorating Method").	Transactions Prorating Method) shall apply.
		• The Proportion of Original Transactions shall be determined
		based on the total amount (gross) of obligations JSCC has
		assumed.
	ii. Clearing Participants other than trust banks and the house accounts of trust	
	banks: The method to compensate losses caused by defaults in line with the	
	proportion of the required amount of Clearing Fund for each Clearing	
	Participant to the aggregate amount of the required amounts of Clearing	
	Funds (hereinafter referred to as the "Proportion of Clearing Fund") (such	
	method is hereinafter referred to as the "Clearing Fund Requirement	
	Prorating Method").	
	· Loss compensation shall be conducted with the Original Transactions Prorating	• For examples of loss compensation methods, see Annex 7.
	Method and the Clearing Fund Requirement Prorating Method, as described	
	below:	
	i. Allocation of losses by each method	
	- Original Transactions Prorating Method: Allocated according to the	

Item	Description	Remarks
	Proportion of Original Transactions subject to Original Transaction Prorating	
	Method to overall transactions;	
	- Clearing Fund Requirement Prorating Method: Allocated according to the	
	proportion remaining after subtracting the Proportion of Original Transactions	
	subject to the Original Transactions Prorating Method.	
	ii. Allocation of losses to each Clearing Participant in each method	
	-The amount of losses to be covered by Clearing Participants subject to the	
	Original Transactions Prorating Method (hereinafter "Clearing Participants	
	subject to Proration on Original Transactions") shall be an amount obtained by	
	prorating the amount allocated to this classification, as prescribed in i., by the	
	Proportion of Original Transactions for each of the said Clearing Participants.	
	- The amount of losses to be covered by Clearing Participants subject to the	
	Clearing Fund Requirement Prorating Method (hereinafter "Clearing	
	Participants subject to Proration on Clearing Fund Requirement") shall be an	
	amount obtained by prorating the amount allocated to this classification, as	
	prescribed in, by the proportion of the required amount of Clearing Fund for	
	each of the said Clearing Participants.	
(2) Financial	• In order to avoid the systemic risk caused by a default of JSCC, any loss to JSCC	• For loss compensation by method of proration, see Annex 8.
Resources for Loss	caused by the default of a Clearing Participant should be compensated according	
Compensation	to the following order.	
	(First tier): Margin, Clearing Fund, etc. deposited by defaulting Clearing Participants	• In third tier, Clearing Participants subject to Proration on

Item	Description	Remarks
	(Second tier): Compensation by JSCC	Original Transactions shall compensate losses according to
	(Third tier): Clearing Fund deposited by non-defaulting Clearing Participants /	the Proportion of Original Transactions, while Clearing
	Compensation by JSCC	Participants subject to Proration on Clearing Fund
	(Fourth tier): Special Clearing Charge collected from non-defaulting Clearing	Requirement shall compensate losses according to the
	Participants (ex-post facto contribution)	proportion of the required amount of Clearing Fund of each
	(Fifth tier): Clearing Fund deposited by the Clearing Participants subject to Proration	Clearing Participant. Also, the amount of compensation by
	on Original Transactions (Third Tier Unused Portion) /Compensation by JSCC	each Clearing Participant in the third tier shall be capped at
	(Sixth tier): Special Clearing Charge collected from Clearing Participants subject to	an amount equivalent to the required amount of the Clearing
	Proration on Original Transactions (Fourth Tier Unused Portion)	Fund for each Clearing Participant.
	(Seventh tier): Special Clearing Charge collected from Clearing Participants who are	• Compensation by JSCC as mentioned in the third and fifth
	to receive variation margin, etc. (hereinafter "VM, etc.") (ex-post facto	tiers shall be in the same proportion as the proportion of the
	contribution)	amount to be covered by non-defaulting Clearing
		Participants to the total amount of the required amounts of
		Clearing Fund.
		• With regard to Special Clearing Charge (ex-post facto
		contributions), as mentioned in the fourth tier, the amount to
		be covered by Clearing Participants subject to Proration on
		Original Transactions shall be the amount corresponding to
		the Proportion of Original Transactions. No ceiling should
		be set for such compensation. The amount to be covered by
		the Clearing Participants subject to Proration on Clearing
		Fund Requirement shall be capped at an amount equivalent

Item	Description	Remarks
		to the required amount of Clearing Fund for each Clearing
		Participant.
		Special Clearing Charge collected from Clearing Participants
		subject to Proration on Original Transactions in the sixth tier
		shall not exceed an amount obtained by deducting Special
		Clearing Charge in the fourth tier from the required amount
		of Clearing Fund for each Clearing Participant.
		· Clearing Participants who are to receive VM, etc., as
		mentioned in the seventh tier, shall mean the Clearing
		Participants receiving VM, etc. in terms of cumulative
		amount after the default (the same shall apply hereinafter).
		$\cdot$ VM, etc. shall be the total of the following amounts (the same
		shall apply hereinafter):
		(i) the amount obtained by deducting interests on substituting
		JGB for IM and Clearing Fund from the settlement amount
		of FOS to be paid/received between JSCC and Clearing
		Participants; and
		(ii) when payment obligation of a defaulting Clearing
		Participant which is the counterparty to the transaction of
		the relevant Clearing Participant has been fulfilled by
		funding by JSCC, the amount representing change in the
		market price of JGB with respect to such transaction after

Item	Description	Remarks
		default.
(3) Handling of Loss	• After the allocation of the total amount of losses arising from a Clearing	• See 3. (1)
Compensation with	Participant's default to be compensated by non-defaulting Clearing Participants to	
Clearing Fund	the Original Transactions Prorating Method and the Clearing Fund Requirement	
Deposited by	Prorating Method according to the Proportion of Original Transactions, the	
Non-defaulting	Clearing Participants subject to Proration on Original Transactions shall cover an	
Clearing	amount determined according to the Proportion of Original Transactions, while	
Participants in	the Clearing Participants subject to Proration on Clearing Fund Requirement shall	
Third Tier	cover an amount prorated according to the required amount of Clearing Fund for	
	each Clearing Participant.	
	· The maximum amount to be compensated by using Clearing Fund of each	
	non-defaulting Clearing Participant shall be, for the default which occurred	
	during 30 calendar day period from the first default (if a default occurs during the	
	relevant period, the relevant period will be extended for another 30 calendar days	
	from such subsequent default and the same will apply to any subsequent default	
	(such period is hereinafter referred to as the "Period with Cap"), the required	
	amount of Clearing Fund for each non-defaulting Clearing Participant at the time	
	of occurrence of the first default.	
	• If the loss is compensated by using Clearing Fund, the deposited amount shall be	
	replenished at the end of the Period with Cap to the required amount of Clearing	

Item	Description	Remarks
	Fund as of such time (see Annex 9).	
(4) Handling of Loss	• If the loss incurred by JSCC due to defaults, etc. of Clearing Participants exceeds	• See 3. (1)
Compensation with	the sum of the first, second and third tier of loss compensation resources, such loss	
Special Clearing	shall be compensated with Special Clearing Charge collected from non-defaulting	
Charge Collected	Clearing Participants (ex-post facto contribution).	
from	· Among non-defaulting Clearing Participants, Special Clearing Charge collected	
Non-defaulting	from each Clearing Participant subject to Proration on Clearing Fund Requirement	
Clearing	shall be an amount prorated according to the required amount of the Clearing	
Participants in	Fund for each of such participants and shall be, with respect to default occurred	
Fourth Tier	during the Period with Cap, capped at an amount equivalent to the required	
	amount of the Clearing Fund for each non-defaulting Clearing Participant at the	
	time of the occurrence of the first default.	
	· Clearing Participants subject to Proration on Original Transactions shall	
	compensate losses at each time a default occurs, regardless of the Period with Cap,	
	by paying Special Clearing Charge according to the Proportion of Original	
	Transactions. No ceiling should be set on such compensation.	
(5) Handling of Loss	• If the loss incurred by JSCC due to defaults of Clearing Participants exceeds the	
Compensation by	sum of the first, second, third and fourth tier of loss compensation resources, such	
Clearing	loss shall be compensated by Clearing Participants subject to Proration on	
Participants subject	Original Transactions.	

Item	Description	Remarks
to Proration on	$\cdot$ If, at the time of the third tier loss compensation, the amount of losses to be covered	· Clearing Participants subject to Proration on Original
Original	by a Clearing Participant subject to Proration on Original Transactions based on	Transactions are also required to pay the required amount of
Transactions in	the Proportion of Original Transactions falls below the required amount of the	the Clearing Fund calculated by JSCC in advance, in the
Fifth and Sixth	Clearing Fund, the difference between the required amount of Clearing Fund and	same manner as Clearing Participants subject to Proration
Tiers	the amount of losses compensated according to the Proportion of Original	on Clearing Fund Requirement.
	Transactions (hereinafter referred to as the "Third Tier Unused Portion") shall	
	constitute the fifth tier financial resources for loss compensation.	
	• As for uncompensated losses by the first through fifth tier of loss compensation	· Special Clearing Charge collected from each Clearing
	resources, if, at the time of the fourth tier loss compensation, the amount of losses	Participant subject to Proration on Original Transactions, as
	to be covered by a Clearing Participant subject to Proration on Original	mentioned in the sixth tier, shall be, for defaults occurred
	Transactions based on the Proportion of Original Transactions falls below the	during the Period with Cap, capped at an amount equivalent
	required amount of Clearing Fund, the difference between the required amount of	to the required amount of Clearing Fund for each Clearing
	Clearing Fund and the amount of losses compensated according to the Proportion	Participants subject to Proration on Original Transactions at
	of Original Transactions (hereinafter referred to as the "Fourth Tier Unused	the time of the occurrence of the first default (see 3. (4)).
	Portion") shall constitute the sixth tier financial resources for loss compensation.	
	• The allocation of the Third and Fourth Tier Unused Portions among Clearing	
	Participants subject to Proration on Original Transactions shall be decided in	
	ascending order of the ratio of contributions in upper tiers of loss compensation	
	financial resources.	
(6) Handling of Loss	• If the loss incurred by JSCC due to defaults of Clearing Participants exceeds the	
Compensation by	sum of the first through sixth tier loss compensation resources, such loss shall be	

Item	Description	Remarks
Recipient Clearing	compensated with contributions from recipient Clearing Participants of VM, etc.	
Participants of VM,	(see Annex 6).	
etc. in Seventh Tier	•Each recipient Clearing Participant of VM, etc. shall compensate the amount of loss	
	allocated in proportion of cumulative net receivable of VM, etc. after the date of	
	default (hereinafter the "Cumulative Net Receivable") of each recipient Clearing	
	Participant of VM, etc. In this case, the amount to be borne by each recipient	
	Clearing Participant of VM, etc. shall be capped at the amount calculated by	
	dividing the cumulative net VM, etc., payable by defaulting Clearing Participant	
	after such default on a pro rata basis.	
(7) Posting Collateral	• During the Period with Cap, the required amount of Clearing Fund at the time of	
during Period with	the occurrence of the first default (an amount used for the loss compensation	
Cap	resources, if any, shall be excluded) shall be adopted as the required amount of	
	Clearing Fund during such period.	
	• During the Period with Cap, a deposit of funds in the amount calculated based on	
	the daily fluctuations of the required amount of Clearing Fund is required as	
	Default Contingent Margin, separately from the Clearing Fund. Default	
	Contingent Margin shall be calculated as follows (see Annex 11).	
a. Method of	• The required amount of Clearing Fund calculated on a daily basis shall be referred	
Calculating	to as the "Calculated Required Amount," and the amount that will be actually used	
Default	for calculating Default Contingent Margin shall be referred to as the "Applicable	

Item	Description	Remarks
Contingent	Required Amount" (the same shall apply hereinafter).	
Margin	• If the Calculated Required Amount for the current day exceeds the Applicable	
	Required Amount for the previous day, the Calculated Required Amount for the	
	current day shall be the Applicable Required Amount for the current day, and the	
	amount of increase from the Applicable Required Amount on the business day	
	immediately preceding the date of default shall be the required amount of Default	
	Contingent Margin.	
	• If the Calculated Required Amount for the current day is less than the Applicable	
	Required Amount for the previous day, the Applicable Required Amount for the	
	previous day shall be the Applicable Required Amount for the current day. (In this	
	case, the required amount of the Default Contingent Margin will remain	
	unchanged.)	
	• The required amount of Default Contingent Margin shall become zero at the end of	• The Default Contingent Margin deposited during the Period
	the Period with Cap.	with Cap will be transferred to the deposited amount of
		Clearing Fund on the business day immediately following
		the last day of the Period with Cap.
b. Deposit of	• If there is any shortfall in the deposited amount of the Default Contingent	
Default	Margin, the amount equal to such shortfall shall be deposited by 11 a.m. on the	
Contingent	business day immediately following the occurrence of such shortfall.	
Margin	• Handling of deposit (deposit of cash, deposit of substituting JGB) of the Default	
	Contingent Margin shall be the same as IM.	

Item		Description	Remarks
(8) Handling	of	• The Clearing Participant who submitted the application for renunciation of the	• Currently, renunciation of Clearing Qualification requires an
Clearing		Clearing Qualification will renounce the Clearing Qualification on the day when	approval of JSCC.
Participant	who	the period of 30 days has elapsed since the application or the day when settlement	
Submitted		of outstanding trades, including those related to auction, are completed, whichever	
Application	for	is later.	
Renunciation		• However, if an application for renunciation is submitted during the Period with	
		Cap, or if a default occurs before the day when the period of 30 days has elapsed	
		since the application or the day when all the settlements are completed, whichever	
		is later, such Clearing Participant will renounce the Clearing Qualification at the	
		end of the Period with Cap or at the completion of all settlements, whichever is	
		later (see Annex 12).	
		• The Clearing Participant who submitted an application for renunciation of Clearing	
		Qualification will be required to compensate losses by Clearing Fund (third and	
		fifth tier), to contribute Special Clearing Charge (fourth and sixth tier) and to	
		participate in compensation by the recipient Clearing Participant of VM, etc.	
		(seventh tier) for the loss arising from Clearing Participant's default that occurred	
		before the renunciation of the Clearing Qualification.	
4. Revision	of		
Scheme	for		
Managing			
Settlement De	efault		

Item	Description	Remarks
(1) Process for	• In the event of Clearing Participant's default, JSCC will dispose of the position of	• For examples of typical default management schedules, see
Managing Position	the defaulting Clearing Participant as follows:	Annex 13.
	i. JSCC will call on Clearing Participants who will cooperate in the default	
	management process;	
	ii. The auction will be conducted to restructure the unsettled position of the	
	defaulting Clearing Participant;	
	iii. The negotiation will be made (in the event that the auction was unsuccessful)	
	iv. All positions held by all Clearing Participants will be terminated based on	
	close-out netting at the market value (tear-up). (when the negotiation fails)	
(2) Clearing	• JSCC shall designate five Clearing Participants to co-operate in default	• JSCC shall prepare a list of Clearing Participants (a list of
Participants to	management process (hereinafter "Cooperating Participants"). The Cooperating	Cooperating Participants) who are Financial
Cooperate in	Participant shall assign one personnel per company for the default management	Instruments Business Operators and also JGB Market
Default	process.	Special Participants (Primary Dealers), and are ranked top
Management	• The term of the Cooperating Participant shall be one year.	80% in terms of the past record of assumption of
	• Of the five Cooperating Participants, the terms of three or two firms shall expire	obligations. Five companies are selected from the list as
	every six months, and new Cooperating Participants shall be selected to replace	Cooperating Participants.
	the Clearing Participants who have finished their terms.	• Clearing Participants whose terms have ended will be taken
		off the list of Cooperating Participants. However, if there are
		less than five Clearing Participants remaining on the list,
		JSCC shall prepare a new list.

Item	Description	Remarks
(3) Default	• Default Management Committee (a standing committee, hereinafter "DMC") will	• The members of DMC have a duty of confidentiality in
Management	be comprised of personnel assigned by the Cooperating Participants. DMC shall	relation to default management process.
Committee (DMC)	be positioned as an advisory body of JSCC with regard to default management	• At normal times, DMC shall plan and conduct fire-drills
	process.	assuming a default of Clearing Participant.
	$\boldsymbol{\cdot}$ The members of DMC shall gather immediately in the event of occurrence of a	· All Clearing Participants who may serve as Cooperating
	default and take actions JSCC considers necessary, such as offering advice on the	Participants (all Clearing Participants for fire-drills related
	makeup of baskets that would become subject of auctions.	to second-stage auction) shall participate in such drills (see
		4. (4)b.).
(4) Auction on	• JSCC shall hold an auction promptly with regard to positions held by a defaulting	
Positions	Clearing Participant, as described below.	
a. First-stage	• JSCC shall consider the attributes of issues comprising the defaulting Clearing	• It is possible to hold an auction for a defaulting Clearing
Auction	Participant's positions, etc. in light of DMC's advice, split the positions into	Participant's positions collectively depending on the
	multiple baskets and hold an auction for each basket.	content, rather than splitting them into multiple baskets.
	• Eligible bidders for a first-stage auction shall be the Financial Instruments Business	Cooperating Participants are also allowed to bid.
	Operators who are JGB Market Special Participants and are ranked top 80% in	
	terms of the past record of assumption of obligations.	
	• Clearing Participants eligible for bid in such auction shall notify JSCC of a basket	• Clearing Participants must not leak information about
	on which they desire to bid in the auction in light of the outline of each basket	auctions, such as the content of each basket (including the
	presented by JSCC.	outline of each basket presented by JSCC in advance).
	• Each Clearing Participant is obliged to place a bid in the auction in relation to the	
	basket for which it has given notification to JSCC as described above.	

Item	Description	Remarks
	• An auction shall become successful if losses fixed by the successful bid price do	• Buying and selling of JGB and Cash-secured Bond Lending
	not exceed the predetermined amount of financial resources for loss compensation	Transactions to be executed as a result of the auction shall
	for each basket. When the auction becomes successful, buying and selling of	be included in the calculation of the Required Initial Margin
	JGB and Cash-secured Bond Lending Transactions corresponding to the	Amount.
	basket subject to such auction shall be concluded between the successful bidder	• Financial resources for loss compensation in the first-stage
	Clearing Participant and JSCC.	auction shall equal to the sum of IM and Clearing Funds
		from defaulting Clearing Participant and a part of JSCC's
		financial resources and shall be prorated for each basket.
		However, if DMC determines that this amount is highly
		likely to exceed the financial resources mentioned above
		given the status of a defaulting Clearing Participant's
		positions or other factor, JSCC may expand the scope of
		such financial resources, omit a first-stage auction or take
		any other necessary measures.
	• There shall be one successful bidder Clearing Participant for each auction. If	• A successful bidder Clearing Participant shall settle the
	more than one Clearing Participants submit bids at the highest price, the	transaction on the basket concluded as a result of the auction
	successful bidder Clearing Participant will be determined by lottery.	with JSCC. In the event of a default in the settlement to be
		performed as a result of successful completion of the
		auction, such default shall be treated in the same manner as
		Settlement Default in respect of Transactions Subject to
		Clearing.
	• The successful bid price shall be determined by either the first price method or the	• The first price method refers to a method in which a bidder

Item	Description	Remarks
	second price method according to the number of bidding Clearing Participants for	who offers the highest price in an auction wins the bid, and
	each auction.	concludes the resulting transaction at its bid price.
		$\cdot$ The second price method refers to a method in which a bidder
		who offers the highest price in an auction wins the bid, and
		concludes the resulting transaction at the second-highest bid
		price, rather than at its own bid price.
b. Second-stage Auction	• JSCC shall hold a second-stage auction for baskets for which the first-stage auction was unsuccessful.	
	• A second-stage auction shall cover all issues in all baskets subject to the	• As to second-stage auctions, re-auction will not be held,
	second-stage auction on a single-issue basis.	except for a case where non-defaulting Clearing Participants
	· All JSCC Clearing Participants may bid in a second-stage auction, and such	do not post Special Clearing Charge collateral (see 4. (4)c.).
	participants are not obliged to place bids.	
	· JSCC shall present details of trades subject to the auction to all Clearing	
	Participants. Any Clearing Participant who desires to join the bid may do so for	
	each issue.	
	• An auction shall become successful if the total amount of losses fixed by the	$\cdot$ If the total amount of losses fixed by the successful bid prices
	successful bid prices of all issues does not exceed the predetermined amount of	of all issues exceeds a predetermined amount of financial
	financial resources for loss compensation. When an auction becomes successful,	resources for loss compensation, or if there is any issue for
	buying and selling of JGB and Cash-secured Bond Lending Transactions	which no bid is placed, the second-stage auction shall be
	corresponding to each issue subject to such auction shall be concluded between	deemed unsuccessful.
	the successful bidder Clearing Participant and JSCC.	• Buying and selling of JGB and Cash-secured Bond Lending

Item	Description	Remarks
	• The successful bid price shall be determined by the first price method regardless of	Transactions to be executed as a result of the auction shall be
	the number of bidding Clearing Participants.	included in the calculation of the Required Initial Margin
		Amount.
		• Financial resources for loss compensation for a second-stage
		auction shall equal to the sum of a surplus of financial
		resources for the first-stage auction, Clearing Funds of
		non-defaulting Clearing Participants, Special Clearing
		Charge from non-defaulting Clearing Participants (ex-post
		facto contribution), JSCC's additional financial resources
		and the amount to be covered by recipient Clearing
		Participants of VM, etc.
		· A successful bidder Clearing Participant shall settle the
		transaction on the issue concluded as a result of the auction
		with JSCC. In the event of a default in the settlement to be
		performed as a result of successful completion of the
		auction, such default shall be treated in the same manner as
		Settlement Default in respect of Transactions Subject to
		Clearing.
c. Special Clearing	• If the amount of losses fixed by the successful bid price in a second-stage auction is	• Special Clearing Charge shall be paid on the business day
Charge	the amount that requires compensation with Special Clearing Charge, JSCC shall	immediately following the date of a second-stage auction.
Collateral	receive Special Clearing Charge collateral from non-defaulting Clearing	
	Participants to secure its payment obligations for Special Clearing Charge in order	

Item	Description	Remarks
	to avoid an ex-post failure of a second-stage auction resulting from the amount of	
	losses to JSCC exceeding the financial resources for loss compensation due to a	
	failure of payment of Special Clearing Charge.	
	• The amount of Special Clearing Charge collateral shall be equivalent to the amount	· When Special Clearing Charge collateral is required
	by which the total amount of IM and Default Contingent Margin deposited by a	according to the level of the successful bid price in a
	non-defaulting Clearing Participant with JSCC in relation to transactions subject	second-stage auction, JSCC shall notify the Clearing
	to clearing falls short of the amount of Special Clearing Charge to be borne by the	Participants the amount of the Special Clearing Charge
	relevant non-defaulting Clearing Participant. When such shortfall is covered, the	collateral after the second-stage auction. Clearing
	second-stage auction will be deemed successful.	Participants shall post such Special Clearing Charge
	• If a non-defaulting Clearing Participant fails to post Special Clearing Charge	collateral during the date of the second-stage auction.
	collateral with JSCC, a second-stage auction shall be deemed unsuccessful and	· JSCC shall take default management process for Clearing
	another round of second-stage auction shall be held on the following business day.	Participants fail to post Special Clearing Charge collateral.
(5) The Scheme for	• As a scheme for increasing the possibility of the successful auctions, the following	
Increasing	measures shall be taken for each auction;	
Possibility of		
Successful		
Auctions		
a. First-stage	• If losses incurred by JSCC due to a default of a Clearing Participant are to be	
Auction	compensated with Clearing Funds of non-defaulting Clearing Participants, all or a	
	part of Clearing Fund of the successful bidder Clearing Participant in the	
	first-stage auction shall be used after Clearing Funds of other Clearing	

Item	Description	Remarks
	Participants (low priority use of Clearing Fund).	
	•With regard to a basket applied for a bidding, the entire amount of Clearing Fund of	• From the aspect of information management, JSCC shall
	a Clearing Participant who does not place a bid shall be used before using the	introduce priority use of Clearing Fund in order to prevent
	Clearing Funds of other Clearing Participants (priority use of Clearing Fund).	Clearing Participants who do not have the will to bid from
		applying for the auction. However, concerning the basket
		which is unpopular for such reasons as it includes less liquid
		issue, JSCC can exempt it from priority use with the advice
		of DMC.
b. Second-stage	• If losses incurred by JSCC due to a default of a Clearing Participant are to be	
Auction	compensated with Clearing Funds of non-defaulting Clearing Participants, all or a	
	part of Clearing Fund of the successful bidder Clearing Participant in the	
	second-stage auction shall be used after using Clearing Funds of other Clearing	
	Participants (low priority use of Clearing Fund).	
(6) Treatment in the	• In a second-stage auction, if an amount equivalent to losses to JSCC resulting from	• JSCC and non-defaulting Clearing Participants (all of them)
Event of Failure of	a settlement default of a Clearing Participant (including an amount equivalent to	shall make utmost efforts to reach an agreement on
Second-stage	losses in an auction) is found to exceed financial resources for loss compensation,	countermeasures for covering losses incurred by JSCC and
Auction	or if there is any issue for which no bid is placed, the second-stage auction shall	enabling JSCC to continue its clearing services, from the
	be deemed unsuccessful, and a consultation shall be held promptly to agree on	viewpoint of resolution of a disorder arising from a Clearing
	possible countermeasures between JSCC and all non-defaulting Clearing	Participant's default and of prompt restoration of order in
	Participants.	the market.
	• If an agreement is reached on such countermeasures as a result of such	$\cdot$ An agreement on the countermeasures at a consultation shall

Item	Description	Remarks
	<ul> <li>consultation, procedures must be taken in line with the countermeasures so agreed.</li> <li>Such a consultation shall be held by the business day immediately following the date of the second-stage auction.</li> <li>If no agreement is reached in such consultation by the next day of the second-stage auction, all outstanding issues possessed by all Clearing Participants (including issues for which trade concluded as a result of the first-stage auction) shall be settled through a close-out netting based on the market value (tear-up).</li> </ul>	<ul> <li>be reached with consents of all the participants in attendance.</li> <li>An expansion of financial resources by additional contribution from non-defaulting Clearing Participants or tear-up intended for the specific issue (partial tear-up), etc. may be the countermeasure to be taken</li> <li>Tear-up shall only be used as means in emergency situations in which a defaulting Clearing Participant's outstanding positions remain unsettled in the two stages of auction and no appropriate countermeasures are adopted through consultation due to such reasons as market disruption, etc.</li> <li>Tear-up shall be performed at the appraised market value of the day.</li> <li>If tear-up is conducted, losses from net payable of the VM, etc. in the defaulting Clearing Participant's position up to the time tear-up is conducted shall be compensated using the loss compensation Resources.</li> </ul>
(7) Others	• If Settlement Default occurs in respect of the Cash-secured Bond Lending Transactions which JSCC executes with the funding party (Clearing Participant) to avoid Settlement Default from occurring as a result of default of Clearing Participants, such Settlement Default shall be treated in the same manner as	

	Item	Description	Remarks
		Settlement Default in respect of Transactions Subject to Clearing.	
5.	Date of Enforcement	• These new system and revision of scheme shall be implemented around the second half of the fiscal year 2014, except for the introduction of Market Impact Charge,	
	Linorcement	which shall be implemented three months after the date of enforcement.	

End of Document

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## **Calculation Method of Market Impact Charge**

1

## 1. Determination of criterial spread

Based on the market survey result concerning bid-asked spread (discrepancy between selling price and buying price), discrepancy from the appraised market value (criterial spread) shall be determined referencing the position scale of each issue.

a. Determination of the guideposts (grids) for the	Concerning the issues to be assumed by us for clearing, certain classes are introduced to get them categorized by type of securities, original maturity, and current maturity.
axis of position	For each issue or for each class, three guideposts (grids), or G1, G2 and G3, are determined for the axis of position size.
scale	G1: This is determined by JSCC based on the median in the distribution of deal size concerning Buying and selling of Japanese government bonds transactions (observed during the target period of 6 months), which are put subject to the clearing operation.
	G2: This is determined by JSCC based on the maximum value in the distribution of deal size concerning Buying and selling of Japanese government bonds transactions (observed during the period of 6 months), which are put subject to the clearing operation.
	G3: This is determined by JSCC based on the maximum value from among the quantity of offsetting position data (by account and by issue), which are calculated from the Buying and selling of Japanese government bonds, Cash-secured Bond Lending Transactions and Repo Transactions, which are put subject to the clearing operation.
	Criterial spread for each of those three grids will be determined based on the market survey result.
	(i) Market survey will be conducted quarterly based on prices on the first business day of the month.
	(ii) Market survey will not cover STRIPS. JSCC will determine criterial spread for STRIPS by reference to criterial spread for fixed rate JGB with the same remaining maturity. (In principle, G3 for fixed rate JGB with same remaining maturity category to apply to G1, G2 and G3 of STRIPS.)
	(iii) Procedures in (i) and (ii) above are subject to revision as necessary in light of feasibility of market survey and status of Assumption of Obligations
b. Determination of	Criterial spread for elsewhere than those three grids will be determined by interpolation, etc. as follows:
criterial spread	Interval of 0 value through G1: Criterial spread as determined for G1
	Interval of G1 to G2: Criterial spread as calculated by exponential interpolation where the criterial spread for G1 is used as the start point and the criterial spread for G2 is used as the terminal point
	Interval of G2 to G3: Criterial spread as calculated by exponential interpolation where the criterial spread for G2 is used as the start point and the criterial spread for G3 is used as the terminal point
	Area beyond G3: Criterial spread as calculated by extrapolation, based on the interpolation for the interval of $G2\sim G3$

# 2. Calculation of the Equivalent of Transaction Execution Cost for each issue

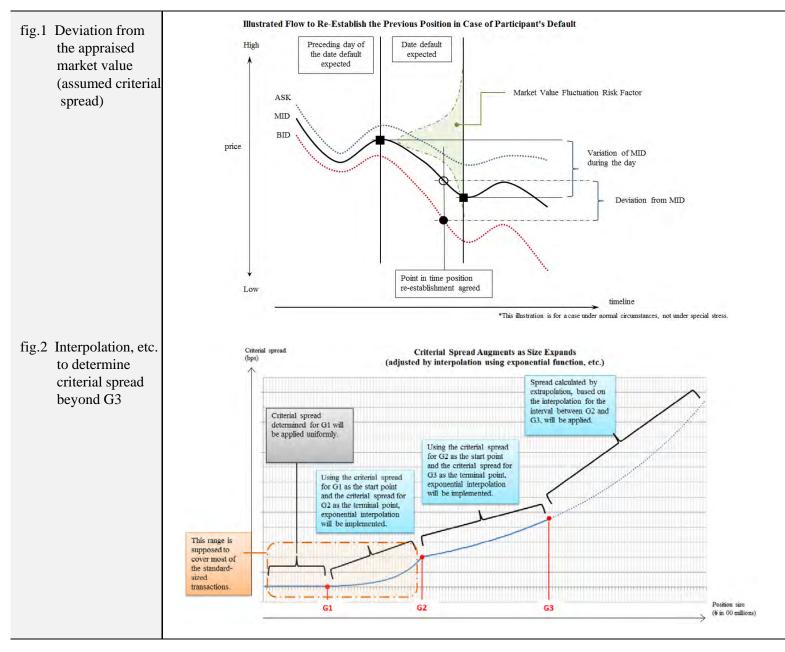
The Equivalent of Transaction Execution Cost for each issue shall be obtained by having the modulus of the quantity of offsetting position by issue multiplied by BPV (basis point value) and by criterial spread. (As for Japanese government bonds with floating rate, it is obtained by having the former multiplied by criterial spread only.)

a.	Calculation of offsetting position for each issue	The quantity of offsetting position for each issue represents the remaining balance of the quantity after netting the obligation of respective Clearing Participant to deliver JGB to JSCC and the obligation of JSCC to deliver JGB to the Clearing Participant (both quantity basis) for each issue on all settlement dates. (For each netting account or for each IMG.)
b.	Determination of BPV	BPV is calculated in the evening of the preceding business day before the day when the premium is charged, and thus calculated BPV shall be applied to respective issue.
c.	Calculation of the Equivalent of Transaction Execution Cost for each issue	<ul> <li>Any issue other than Japanese government bonds with floating rate: The Equivalent of Transaction Execution Cost for each issue =   quantity of offsetting position   × BPV × Applicable criterial spread (bps)</li> <li>Japanese government bonds with floating rate : The Equivalent of Transaction Execution Cost for each issue =   quantity of offsetting position   × Applicable criterial spread (¥)</li> </ul>

## **3**. Calculation of Market Impact Charge for each Clearing Participant

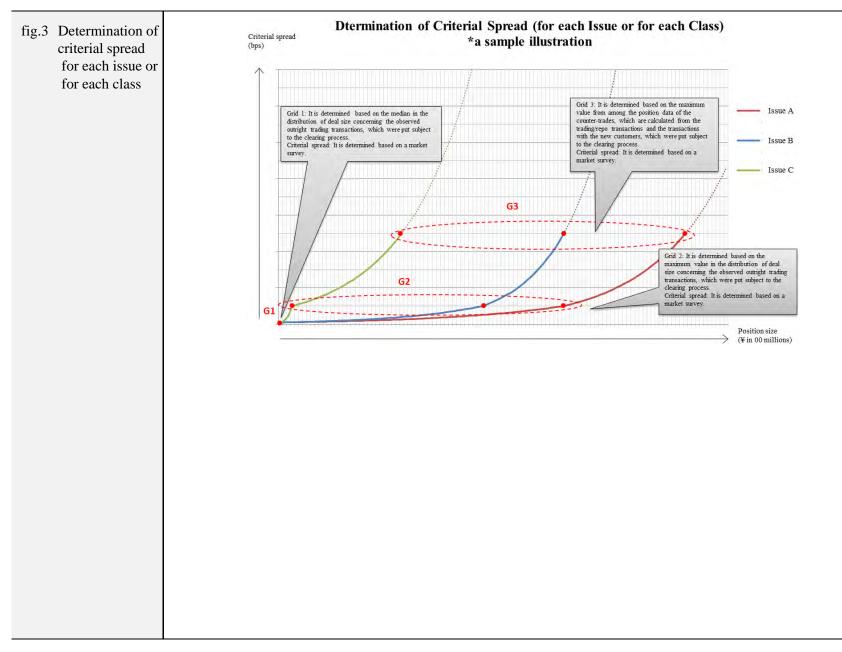
The Equivalent of Transaction Execution Cost for each issue shall be added together for all issues concerning a specific Clearing Participant, to calculate the Required Market Impact Charge for the Clearing Participant. In case two or more netting accounts are opened by a single Clearing Participant, the said required amount shall be calculated for each of the netting accounts or for each IMG.

a. Calculation of the Required Market Impact Charge for respective Clearing Participant	The Equivalent of Transaction Execution Cost for each issue for a Clearing Participant shall be added together for all issues, and the resultant sum shall be used as the Required Market Impact Charge for the said Clearing Participant. (The said Required Market Impact Charge shall be calculated for each of the petting accounts or for each IMG.)
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## Premium Deposit Required for Initial Margin as Triggered by Credit Standing

Additional deposit is required for initial margin as triggered by credit standing	Premium required
In case credit standing is judged poorer than A- in any of the concerned ratings (*1, 2). (*3)	10% premium is required (*6)
In case credit standing is judged poorer than BBB+ in any of the concerned ratings (*1, 2). (*3)	50% premium is required (*6)
In case credit standing is judged poorer than BBB in any of the concerned ratings (*1, 2). (*3)	100% premium is required (*6)
In case credit standing is judged poorer than A- in either one of the concerned ratings (*1, 2) and at the same time capital-to-risk ratio is below	10% premium is required (*6)
certain level or the like (250% for capital-to-risk ratio, 10% for capital adequacy ratio when the international standards are applied, 5% for capital	
adequacy ratio when the domestic standards are applied, and 500% for solvency margin ratio). (*3, 4, 5)	
In case credit standing is judged poorer than BBB+ in either one of the concerned ratings (*1, 2) and at the same time capital-to-risk ratio is below	50% premium is required (*6)
certain level or the like (250% for capital-to-risk ratio, 10% for capital adequacy ratio when the international standards are applied, 5% for capital	
adequacy ratio when the domestic standards are applied, and 500% for solvency margin ratio). (*3, 4, 5)	
In case credit standing is judged poorer than BBB in either one of the concerned ratings (*1, 2) and at the same time capital-to-risk ratio is below	100% premium is required (*6)
certain level or the like (250% for capital-to-risk ratio, 10% for capital adequacy ratio when the international standards are applied, 5% for capital	
adequacy ratio when the domestic standards are applied, and 500% for solvency margin ratio). (*3, 4, 5)	

- (\*1) In case no rating is obtained by the target clearing participant, rating of their parent company, etc. will be used. (In case rating is obtained neither by the target participant nor by their parent company, etc., rating of an entity in their group, etc. will be used instead.) In such a case, stipulation for an entity of one-notch higher rating will be applied to them.
- (\*2) Rating used herewith represents the rating concerning the debt service capacity for long-term debt, given by any of the "credit rating agencies" as stipulated by the Financial Instruments & Exchange Act (specifically per Article 2-36 of the Act: They are currently represented by such entities as Japan Credit Rating Agency, Moody's Japan, Moody's SF Japan, Standard & Poor's Rating Services Japan [SPJ], Rating & Investment Information, Fitch Ratings Japan, Nippon Standard & Poor's [NSP]) or by any of its specified affiliated companies (per Article 116-3-2 of the Cabinet Ordinance concerning Financial Instruments Business, etc.) (but not including any of the so-called non-solicited arbitrary ratings).
- (\*3) In each individual case, credit judgment shall be made in a comprehensive manner, not merely based on the rating criteria, but also comparing the market information of the target clearing participant (CB spread, CDS spread, stock price, etc.) with that of a company of the same rating level, as well as taking into account such other information as whether there has not been any abrupt change lately, whether there has not been any significant decline in important financial parameters (liquidity at hand, etc.), any peculiar change in position of the said participant, and so forth.
- (\*4) When a securities finance company or a tanshi company (money market broker) faces a similar situation, same measure shall be taken for them too.
- (\*5) In case of a special financial instruments business operator, their credit standing shall be judged by capital-to-risk ratio or by consolidated capital-to-risk ratio.
- (\*6) Individual premium rate shall be determined within given %, by specifically referencing the financial condition (liquidity at hand, etc.) and the position data or so of the target participant.

## Outline of Revision of Additional Initial Margin Requirement in respect of JGB OTC Transactions

As a result of the introduction of the additional initial margin requirement in line with the credit standing, the revision of calculation method for market value fluctuation risk factor and the introduction of the market impact charge, the Required Initial Margin Base Amount will become high on average comparing to that calculated under current system. Therefore, the additional initial margin requirement will be revised in the manner outlined below:

	Item	Current	t System	Revision
1.	Additional Initial	• Depending on the category specif	ied in below Items, if net worth,	• No change.
	Margin When	capital-to-risk ratio or non-consol	lidated or consolidated solvency	
	Financial	margin ratio, as the case may be,	of a clearing participant falls under the	
	Conditions of	level specified below, JSCC shall	raise the Required Amount of Initial	
	Clearing Participant	Margin for such clearing participa	ant in the manner specified below, and,	
	Falls below Criteria	if the initial margin deposited amo	ount falls short of the Required Initial	
	for Obtaining JGB	Margin Amount, require additiona	al deposit from such clearing	
	OTC Transaction	participant by 11:00 on the next d	lay.	
	Clearing	0 1	ne Clearing Qualification which is subject to uarantees all of its obligations owed to JSCC	
	Qualification	will not be subject to such additional in	Ũ	
		(1) Net Worth (or Net Assets	for Participants other than Financial	• No change to additional initial margin outlined
		Instruments Business Oper	rators; same applies hereinafter)	in (1) on the left.
		Level	Action	
		JPY 2 bil. or more and	Required Initial Margin Amount	
		less than JPY3 bil.*	shall be raised by 1.5 times	
			Required Initial Margin Amount	
		Less than JPY 2 bil.	shall be doubled	

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Item		Current S	System	Revision
	* JPY 2.5 bil. for a clearing participant who obtained JGB OTC Transaction Clearing Qualification by requesting a special treatment for an intermediary service provider.			
	(2)	Capital-to-Risk Ratio (Financ	cial Instruments Business Operator)*	• Additional initial margin requirement in (2) on
		Level	Action	the left shall be abolished.
		155% or more and	Required Initial Margin Amount	
		less than 170%	shall be raised by 1.5 times	
		Less than 155%	Required Initial Margin Amount shall be doubled	
	t	taken if any equivalent event of	nd call loan dealers, a similar action will be ccurs. Furthermore, for special financial shall be capital-to-risk ratio or consolidated	
	(3) Non-consolidated or Consolidated Solvency Margin Ratio		• Additional initial margin requirement in (3)	
		(Insurance Company)		the left shall be abolished.
		Level	Action	
		250% or more and	Required Initial Margin Amount	
		less than 300%	shall be raised by 1.5 times	
		Less than 250%	Required Initial Margin Amount	
		Less than 25070	shall be doubled	

Item Current System		Current System			Revision					
2.	Additional Initial	• If the value obtained by dividing the Required Initial Margin Base			•	As to Item#2 o	on the left, th	ne Requ	ired Initial	
	Margin When Net		Amount <sup>*1*2</sup> by net v	worth (hereinafter referred to as "Initial Margin		Margin Amour	nt increase r	nultipli	er will be	
	Worth is Too Small		Ratio") <sup>*3</sup> falls under	level specified below, JSCC shall raise the		revised as follows:				
	relative to Required		Required Initial Man	rgin Amount for the relevant clearing participant as						
	Initial Margin Base		specified below <sup>*4</sup> .	If the amount of initial margin deposited by such						
	Amount		clearing participant	falls short of the Required Initial Margin Amount,						
			<ul> <li>then JSCC shall required</li> <li>*1 When applying this (excluding Trust Accord of the Required Initian exclusion)</li> <li>*2 When applying the Qualification which its obligations owed of the Required Initic company.</li> <li>*3 For Trust Accounts, Required Initian if there are in the exclusion of the required Initian if there are in the exclusion of the required Initian if the exclusion of the required Initian is the exclusion of the required Initian if the exclusion of the required Initian is the exclusion of the required Initian if the exclusion of the required Initian is the exclusion of the required Initian in the exclusion of the required Initian is the exclusion of the required Initian in the exclusion of the required Initian is the exclusion of the required Initian in the exclusion of the required Initian is the exclusion of the required Initian in the exclusion of the required Initian is the exclusion of the required Initian in the exclusion of the required Initian is the exclusion of the required Initian in the exclusion of the required Initian is the exclusion of the required Initian in the exclusion of the required Initian is the exclusion of the required Initian in the exclusion of the required Initian is the exclusion of the required Initian in the exclusion of the required Initian is the exclusion of the required Initian in the exclusion of the required Initian is the exclusion of the required Initian in the exclusion of the required Initian is the exclusion of the required Initian in the exclusion of th</li></ul>							
			atio =	multiple Trust Accounts) nce in Trust Properties × (1-Largest Risk Factor for each Issue/100)		Level		措置		
			*4 When applying to clearing participants with Trust Accounts, the Required Initial Margin Amount will be raised separately for Trust Accounts and other Netting Accounts.			5% or more and	Required Amount sha	Initial all be r	Margin aised by	
		Level75% or more andRequi		Action		less than 87.5%	<u>1.3</u> times		-	
				Required Initial Margin Amount shall be raised			Required	Initial	Margin	
			less than 87.5%	by 1.5 times		87.5% or more	Amount sha	all be r	aised by	
			87.5% or more	Required Initial Margin Amount shall be doubled			<u>1.6 times</u>			

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### Revision of Additional Initial Margin Requirement at Time of Market Price Fluctuation

- 1. Calculation Basis for Additional Initial Margin Charged at the Time of Market Price Fluctuation
  - The trigger level of and calculation basis for additional initial margin call will be revised in the following manner:

[Trigger Level and Calculation Base for Additional Initial margin]

JSCC will call for additional initial margin when the price fluctuation of the 10-year JGB Futures (central month) contract price as of the close of the morning session from the contract price as of the market close on the previous day exceeds the trigger level specified below:

Current Sy	vstem	Revised System				
Trigger Level	Requirement Calculation	Trigger Level	Requirement Calculation			
Established Value of Market Value	Required Initial Margin Base	Established Value of Market Value	Required Initial Margin Base			
Fluctuation Risk Factor (fixed rate	Amount calculated on the	Fluctuation Risk Factor (fixed rate	Amount calculated on the			
7-10 year class), rounded to the	previous business day times 1.5	7-10 year class) rounded to the	previous business day times 1.3			
nearest two decimal places (0.005		nearest two decimal places (0.005				
being rounded upwards), then the		being rounded upwards), then the				
figure on the second decimal place		figure on the second decimal place				
further rounded to 0, if the number on		further rounded to 0, if the number on				
the second decimal place is 0 to 4, and		the second decimal place is 0 to 4,				
rounded to 5, if 5 to 9		and rounded to 5, if 5 to 9				
Value obtained above times 1.5. In the	Required Initial Margin Base	Value obtained above times 1.3. In	Required Initial Margin Base			
resultant value, the figure on the	Amount calculated on the	the resultant value, the figure on the	Amount calculated on the			
second decimal place shall be rounded previous business day times 2		second decimal place shall be	previous business day times 1.6			
to 0 if the number on the second		rounded to 0 if the number on the				
decimal place is 0 to 4, and rounded to		second decimal place is 0 to 4, and				
5, if 5 to 9		rounded to 5, if 5 to 9				

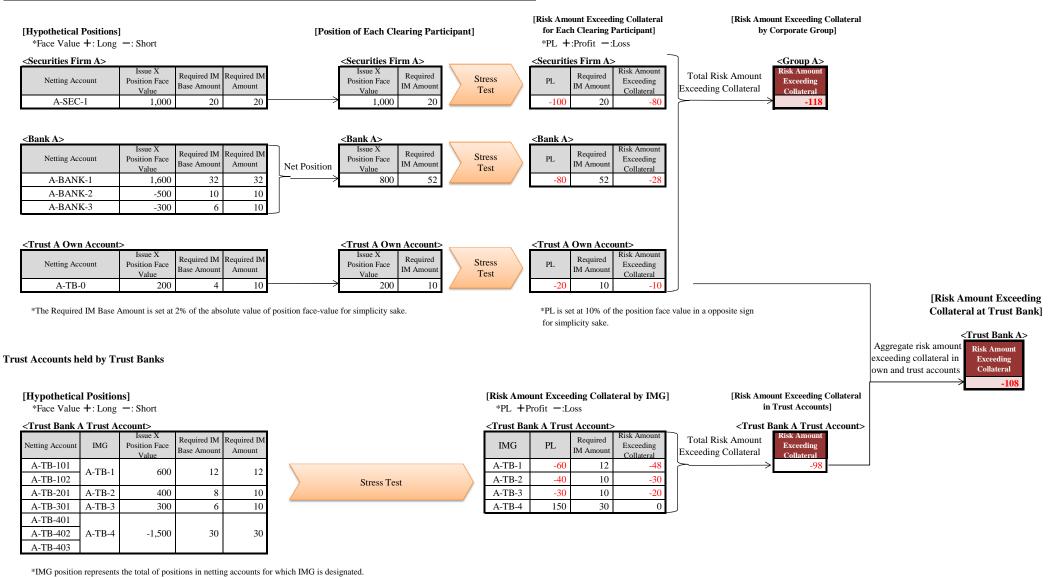
- 2. Temporary Change of Market Value Fluctuation Risk Factor and Setoff Ratio as of Trigger Date of Additional Initial Margin Call at the Time of Market Price Fluctuation
  - The date on which new Market Price Fluctuation Risk Factor and setoff ratio start to apply will be revised in the following manner:

[Date on which Temporarily Changed Market Fluctuation Risk Factor and Setoff Ratio Start to Apply]

Current System	Revised System		
Start to apply from the third business day following the trigger date. (Start to	Start to apply from the next business day of the trigger date. (Start to		
apply from the calculation of Required Initial Margin Amount to be	apply from the calculation of Required Initial margin Amount to be		
deposited on the fourth business day after the trigger date.)	deposited on the second business day following the trigger date.)		

#### Hypothetical Calculation of Risk Amount Exceeding Collateral in Stress Test and Required Amount of Clearing Fund

#### 1. Hypothetical Calculation of Risk Amount Exceeding Collateral in Stress Test



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Annex 5

#### 2. Hypothetical Calculation of Required Amount of Clearing Fund

#### (1) Risk Amount Exceeding Collateral in Stress Tests

	Stress Scenario 1	Stress Scenario 2	Stress Scenario 3	Stress Scenario 4
Group A	-118	0	-20	-20
Group B	-25	0	-30	-20
Securities Firm C	0	-100	-10	0
Bank D	0	-50	0	0
Trust Bank A	-108	-40	-70	0
Trust Bank A Trust Account	-98	-30	-70	0

Extract top 2 Participants in terms of risk amount exceeding collateral \*About a combination of top 2 Participants,

if Group A and Trust Bank A are top 2 Participants, Trust Bank A's own account will be included in positions of both Participants. In this case, refer to risk amount exceeding collateral for Group A and Trust Bank A's trust accounts.

(2) Top 2 Participants in Risk Amount Exceeding Collateral

	Stress Scenario 1	Stress Scenario 2	Stress Scenario 3	Stress Scenario 4
1st	-118	-100	-70	-20
2nd	* -98	-50	-30	-20
Total	-216	-150	-100	-40

Of sum total of risk amount exceeding collateral for the top 2 Participants in each scenario, use the largest value among all

#### (3) Required Amount of Clearing Fund

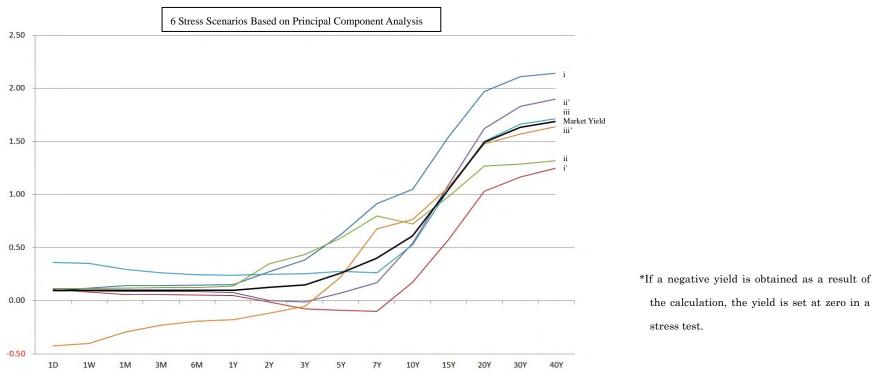
Clearing Participant	Netting Account/IMG	Required IM Base Amount	Percentage of IM	Required Amount of Clearing
Securities Firm A	A-SEC-1	20	8.8%	19
	A-BANK-1	32	14.0%	30
Bank A	A-BANK-2	10	4.4%	9
	A-BANK-3	6	2.6%	(
Securities Firm B	B-SEC-1	23	10.1%	22
Bank B	B-BANK-1	35	15.4%	3:
Securities Fim C	C-SEC-1	21	9.2%	20
Bank D	D-BANK-1	20	8.8%	19
Dalik D	D-BANK-2	1	0.4%	
	A-TB-0	4	1.8%	
	A-TB-1	12	5.3%	1
Trust Bank A	A-TB-2	8	3.5%	
	A-TB-3	6	2.6%	
	A-TB-4	30	13.2%	2
Total	-	228	100.0%	21

Required amount of Clearing Fund = Total Risk Amount Exceeding Collateral for Top 2 Participants x Percentage of IM \*Percentage of IM= Required IM Base Amount / Total of Required IM Base Amounts for all Participants

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### Stress Scenarios for Calculation of Required Amount of Clearing Fund

For calculation of the required amount of Clearing Fund, 12 stress scenarios generated as combinations of six scenarios shown in (1) and two scenarios in (2) below are to be used.



(1) Six stress scenarios based on principal component analysis (applied to Fixed-Rate Coupon JGB and Discount Bills)

- Extract the characteristics of yield curve fluctuations from historical data and determine the forms of yield curves that will be used for stress scenarios (Note).
- After having determined the forms of those yield curves, the change in value in each yield curve will be defined using the largest fluctuation range in the past five days for a bond with a remaining maturity with the highest liquidity (7 years).

Note. The characteristics of yield curve fluctuations are extracted using the method of principal component analysis based on the market data.

- (2) Two stress scenarios based on market impact (applied to Floating-Rate Coupon JGB)
- Extract the largest change in unit price of Floating-Rate Coupon JGB (Rise / Fall) since JGBCC started clearing services for JGB OTC Transactions in May 2005.
- Extract the largest value of divergence (upward/downward) between the contract price of an offsetting trade and the market price in the wake of the Lehman crisis.
- Combine the changes in unit price and the divergences of contract price outlined above in the manner as shown in the table below and add or subtract them to/from market prices to generate stress scenarios (stress prices).

		Largest Change in Unit	Divergence between Contract
		Price since JGBCC Started	Price of Offsetting Trade and
Stress	Position	Services	Market Price
Scenario	(Long/Short)	(Rise/Fall)	(Upward/Downward)
iv: Unit Price	Long	Largest Rise (+)	Downward Divergence (-)
Rises	*Offsetting trade is "Sell"		
	Short		Upward Divergence (+)
	*Offsetting trade is "Buy"		
v: Unit Price	Long	Largest Decline (-)	Downward Divergence (-)
Falls	*Offsetting trade is "Sell"		
	Short		Upward Divergence (+)
	*Offsetting trade is "Buy"		

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### **Examples of Loss Compensation Using "Clearing Fund Requirement Prorating Method"**

### and "Original Transactions Prorating Method"

**"Proration according to Required Amount of Clearing Fund":** The allocation of loss compensation to each Participant (the amount of Clearing Fund consumed) is determined by multiplying the total amount to be compensated by the Participant's Proportion of Clearing Fund \*.

**"Proration according to Original Transactions":** The allocation of loss compensation to each Participant (the amount of Clearing Fund consumed) is determined by multiplying the total amount to be compensated by the proportion of the Participant's transactions (Original Transactions) with the defaulter to overall transactions.

\* Proportion of Clearing Fund: the proportion of the required amount of Clearing Fund for each Participant to the total required amount of Clearing Fund

### I. Calculation of Allocation to each Method (Allocation to each method is calculated based on the proportion of original transactions<sup>1</sup>)

TOLAT OF	losses(a) -	1,000					
Participant	Loss Compensation Method	Required Amount of Clearing Fund	Proportion of Clearing Fund	Amount of Original Transactions	Proportion of Original Transactions	Allocation Percentage b	Loss Amount Allocated a×b
А		250	10%	800	27%		
В	Prorated on Clearing Fund	250	10%	800	27%	80%	800
С		500	20%	800	27%		
D	Prorated on Original	750	30%	600	20%	20%	200
Е	Transactions	750	30%	0	0%		200
	Total	2,500	100%	3,000	100%	100%	1,000

Total of losses(a) =

1 000

Unit: JPY 100mil.

- Allocation to Participants subject to Proration on Clearing Fund Requirement (A, B, C) => JPY80 bil., which represents 80% of the total amount to be compensated (JPY100 bil.).
- Allocation to Participants subject to Proration on Original Transactions (D, E)=JPY20 bil., which represents 20% of the total amount to be compensated (JPY100 billion).

<sup>&</sup>lt;sup>1</sup> The Proportion of Original Transactions is determined based on the total amount (gross) of obligations JSCC has assumed.

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II. Calculation of Amount of Losses Compensated by each Participant (The amount of losses compensated by each Participant is calculated by prorating the amount of losses allocated to each method based on the required amount of Clearing Fund/the amount of Original Transactions)

Prorated on Original Transactions

Loss Amount Allocated(a) 800									
Participant	Required Amount of	Proportion of Clearing Fund	Loss compensation						
	Clearing Fund	Clearing Fund b		a×b					
А	250	25%	200						
В	250	25%	200						
С	500	50%	400						
Total	1,000	100%	800						

Prorated on Clearing Fund

Loss Amou	Loss Amount Allocated (a) 200								
Participant	Amount of Original	Proportion of Original Transactions	Amount Allocated						
	Transactions	b	a×b						
D	600	100%	200						
E	0	0%	0						
Total	600	100%	200						

### 1. When Total Amount of Losses to Cover is JPY100 bil.

	Total of lo Unit: JPY	sses (a) = 1,000 100mil.	)				Loss Com Allocatio	•		onsumption /b)	Loss Com Allocation E> Required / Clearing Fu	ceeding the Amount of	
	Clearing Participant	Required Amount of Clearing Fund b	Proportion of Clearing Fund C	Amount of Original Transactions d	Proportion of Original Transactions e	Allocation Percentage f	Prorated on Clearing Fund f×c	Prorated on Original Transactions f×e	Prorated on Clearing Fund	Prorated on Original Transactions	Prorated on Clearing Fund	Prorated on Original Transactions	(Clearing Fund Requirement Prorating
Prorated on Clearing Fund	A B C	250 250 500	25% 25% 50%	800 800 800		800	200 200 400		80% 80% 80%		0 0 0		Method) Rate of consumption is constant
Prorated on Original Transactions	D E	750 750		600 0	1 OO% 0%	200		200 0		27% 0%		0 0	
	Total	2,500	100%	3,000	100%	1,000	800	200	80%	13%	0	0	

- > The consuming rate of Clearing Fund for Participants subject to Proration on Clearing Fund Requirement: 80%
- > The consuming rate of Clearing Fund for Participants subject to Proration on Original Transactions (average): 13%
- > Participant E had no transaction with the defaulter and does not need to compensate any loss.

#### 2 / 4

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### 2. When Total Amount of Loss to Cover is JPY275 bil.

### (The total amount to be compensated exceeds the total amount of Clearing Fund by 10%, or JPY25 billion)

	Total of lo Unit: JPY	sses(a) = 2,750 100mil.	0				Loss Com Allocati	pensation on (F)	Rate of Co (F/		Allocation E:	pensation ceeding the Amount of nd (E = b)	
	Clearing Participant	Required Amount of Clearing Fund	Proportion of Clearing Fund	Amount of Original Transactions	Proportion of Original Transactions	Allocation Percentage	Prorated on Clearing Fund	Prorated on Original Transactions	Prorated on Clearing Fund	Prorated on Original Transactions	Prorated on Clearing Fund	Prorated on Original Transactions	(Clearing Fund Requirement Prorating Method) Rate of
		Ь	с	d	е	f	f×c	f×⊖					
Prorated on	А	250	25%	800			550		220%		300		Consumption is Constant
Clearing	В	250	25%	800		2,200	550		220%		300		
Fund	С	500	50%	800			1,100		220%		600		
Prorated on	D	750		600	100%	550		550		73%		0	(Clearing Fund Requirement
Original Transactions	E	750		0	0%	000		0		0%		0	Prorating Method)
	Total	2,500	100%	3,000	100%	2,750	2,200	550	220%	37%	1,200	0	riotunig Method)
													Excess over required amount

> The consuming rate of Clearing Fund for Participants subject to Proration on Clearing Fund Requirement: 220%

> The consuming rate of Clearing Fund for Participants subject to Proration on Original Transactions (average): 37%

"Loss compensation allocation exceeding the required amount of Clearing Fund" for Clearing Participants subject to Proration on Clearing Fund Requirement shall be covered as described below.

(1) Loss compensation allocation exceeding the required amount of Clearing Fund will be covered by ex-post facto contribution of Special Clearing Charge from Clearing Participants subject to Proration on Clearing Fund Requirement (Fourth tier).

A: Cover shortage of JPY30 bil. by Special Clearing Charge of JPY25 bil. (JPY5 bil. short)

B: Cover shortage of JPY30 bil. by Special Clearing Charge of JPY25bil. (JPY5 bil. short)

C: Cover shortage of JPY60 bil. by Special Clearing Charge of JPY50 bil. (JPY10 bil. short)

(2) Shortfall totaling JPY20 bil. after loss compensation as mentioned in (1) will be covered by an unused portion of Clearing Fund of

### Clearing Participants subject to Proration on Original Transactions (Fifth tier: see Annex 4).

E: Cover the shortfall of JPY20 bil. by an unused portion of Clearing Fund (JPY75 bil.).

\*D will not cover this shortage. For priorities in the fifth or lower tiers, financial resources of the Participant with lower rate of consumption will be used until Es' Clearing Fund consumption rate reaches the same rate as D. Since 73% of D's contribution, or JPY55 bil., has already been spent, E should compensate losses, prior to D, until 73% of its contribution is used.

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 $\Rightarrow$ In this example, financial resources up to fifth tier are used to cover the total losses of JPY275 bil.

 $\Rightarrow$ If such resources are not enough to cover the overall losses, cover them by Special Clearing Charge (ex-post facto contribution) from Clearing Participants subject to Protection on Original Transactions.

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## Methods of Loss Compensation by Prorating Method

### 1. Financial Resources for Loss Compensation

Order	Clearing Participants subject to Proration on Clearing Fund Requirement	Clearing Participants subject to Proration on Original Transactions (Trust Accounts of Trust Banks) <sup>1</sup>	
First tier	Compensate with financial resources contributed by defaulters in advance (Margin, Clearing Fund, etc.)	Same as left	Losses in excess of fourth tier Special
Second tier	Compensate with JSCC's own financial resources	Same as left	Clearing Charge of
Third tier Fourth tier	<ul> <li>[Prior contributions] Clearing Fund</li> <li>Compensate with JSCC's own financial resources</li> <li>[Ex-post facto contributions] Special Clearing Charge (with cap<sup>2</sup>)</li> </ul>	<ul> <li>[Prior contributions] Clearing Fund</li> <li>(Can be used <u>only to cover losses allocated to Original</u> <u>Transactions Prorating Method</u>)</li> <li>Compensate with JSCC's own financial resources</li> <li>[Ex-post facto contributions] Special Clearing Charge</li> <li>(Can be used <u>only to cover losses allocated to Original</u> <u>Transactions Prorating Method</u>. No cap on consumed amount.)</li> </ul>	Clearing Participants subject to Proriation on Clearing Fund Requirement should be covered by unused portion of Clearing Fund
Fifth tier Sixth tier		<ul> <li>[Prior contributions] Unused portion of third tier Clearing Fund</li> <li>Compensate with JSCC's own financial resources</li> <li>[Ex-post facto contributions] Unused portion of fourth tier Special Clearing Charge</li> </ul>	and Special Clearing Charge of Clearing Participants subject to Proration on
Seventh tier	Special Clearing Charge from recipient Clearing Participants of Variation Margin, etc.	Same as left	Original Transactions.

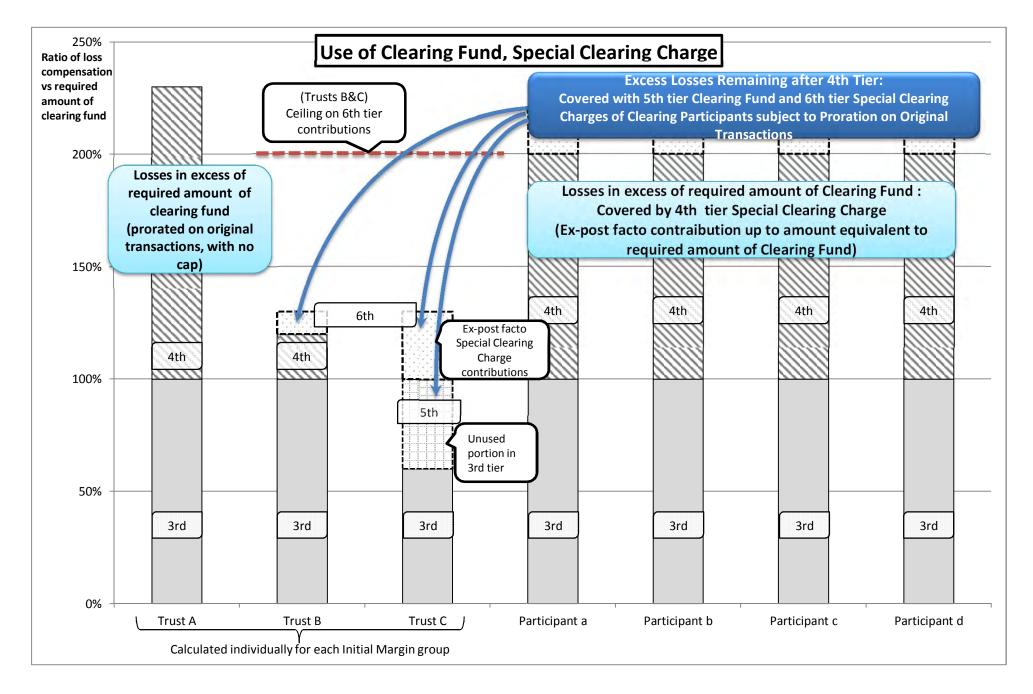
Clearing Participants subject to Proration on Original Transactions also bear obligation to contribute Clearing Fund in advance in the same manner as  $\succ$ 

 <sup>&</sup>lt;sup>1</sup> Trust banks' own account shall be subject to Clearing Fund Requirement Prorating Method.
 <sup>2</sup> This should be the same amount as the required amount of Clearing Fund.

Clearing Participants subject to Proration on Clearing Fund Requirement (Third tier).

- A ceiling is set on Special Clearing Charge contributions for sixth tier covered by Clearing Participants subject to Proration on Original Transactions (the same amount as the required amount of Clearing Fund).
- If losses from a default cannot be covered by Seventh tier financial resources, a market value-based close-out netting (tear-up) process will be performed for all unsettled positions.

### 2. Loss Compensation Method (Illustration)



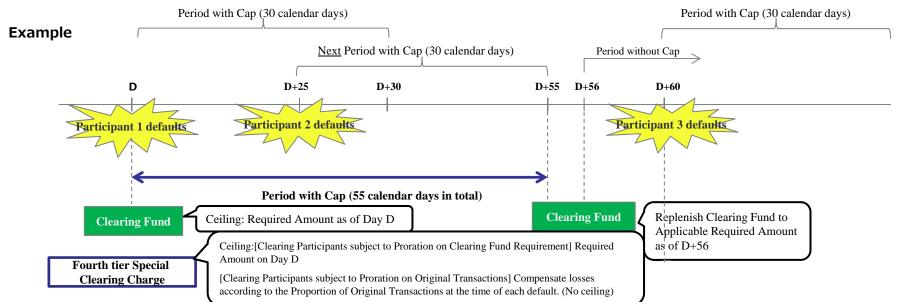
## Handling of Loss Compensation by Non-defaulters during Period with Cap

•Period with Cap: a 30-day period starting from a default of a Clearing Participant

(If a second default occurs during a Period with Cap, it is extended to end on the date that is 30 days after the second default.)

### [Loss Compensation during Period with Cap]

	Clearing Participants subject to Proration on Clearing Fund RequirementClearing Participants subject to Prov Original Transactions						
(Third tier) Clearing Fund	Compensate losses from defaults occurring during a Period with Cap, up to the amount equal to the required amount of Clearing Fund for each non-defaulter at the time of the first default						
(Third tier) Replenish Required Amount of Clearing Fund	At the end of the Period with Cap, the deposited amount to be replenished to the required amount of Clearing Fund as of such time.						
(Fourth tier) Special Clearing Charge	As to defaults occurring during the Period with Cap, compensate losses up to the amount equal to the required amount of Clearing Fund for each non- defaulter at the time of occurrence of the first default.						
Default Contingent Margin	During the Period with Cap, the amount equal to the increase in the required amount of Clearing Fund from the previous day calculated daily needs to be deposited separately as Default Contingent Margin (see Annex 11).						



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# Loss Compensation by Recipient Clearing Participants of Variation Margin, etc. (VM Haircut)

### 1. Key Points of Loss Compensation by Recipient Clearing Participants of Variation Margin, etc. (VM Haircut)

- If losses from a default of a Clearing Participant exceed the First to Sixth tiers loss compensation financial resources, such losses shall be covered by contributions from recipient Clearing Participants of Variation Margin, etc. (VM Haircut).
- Details of Variation Margin, etc. subject to VM Haircut and loss compensation methods are described in the table below.

	Details of Variation Margin, etc.	Participants to Cover Losses and Loss Compensation Methods
(i)	For all transactions with all Clearing Participants(*1), amount paid/received by each Clearing Participant from the date of default of a Clearing Participant to the day (*2) when losses are determined in default management processes.	[Participants to Cover Losses] Those who have become recipients of the net amount of cumulative amount in (i) and cumulative amount in (ii) during the period mentioned
(ii)	(When the defaulter is a recipient of JGBs (DVP2)) For transactions with respect to which JSCC performed settlement by funding required funds, an amount equal to change in market value (*3) of <u>JGB that has</u> <u>already been delivered by JGB Deliverer (DVP1) to JSCC</u> from the date of default related to relevant JGB to the day when losses are determined in default management processes.	in the left. [Methods of Loss Compensation] Compensate losses in proportion to the net receivable of each Participant.

- \*1 Such transactions include trades with non-defaulters, those on which settlements are completed between the date of default and the day when losses are determined in default management processes, and trades in relation to which settlement failure occurred.
- \*2 The date of a second-stage auction if losses are determined in the second-stage auction. If losses are determined in the tear-up process, it should be the business day immediately following the conclusion of tear-up (because Variation Margin for the day of tear-up is paid/received on the following business day).
- \*3 The amount representing changes in a market value, as described in (ii), is added to the amount described in (i) for each of the Participants for which JSCC has performed settlements by funding necessary amount, including Participants that have had no transaction with the defaulter. Such an amount is added in proportion to each settlement amount for such Participants (JGB Deliverers to JSCC).
- Even if requested to compensate losses by way of VM Haircut, Variation Margin, etc. shall still be settled as usual. Relevant Clearing Participants are required to separately contribute the amount equal to such compensation as Special Clearing Charge.

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### 2. Examples of Loss Compensation by Recipient Clearing Participants of Variation Margin, etc. (VM Haircut)

### (1) When a defaulter is a deliverer of JGB

•A Participant who is a deliverer of the issue X subject to clearing defaults on D+0 (Assume that X is the sole unsettled issue for the sake of simplicity).

•Clearing Fund Requirement Prorating Method to apply to Clearing Participants (the same shall apply in the next example).

• Profits and losses to be calculated based on the face value of JGB (The present value of cash at the time of tear-up is not considered. The same shall apply in the next example).

Unit: IDV100 mil

•Neither first-stage auction for a basket containing the issue X nor second-stage auction has been successful.

•Failing to reach consensus in the consultation, tear-up is to be performed on transactions that remain unsettled after settlements on D+3.

[Unsettled balance] Balance of trades for which the settlement has not become due at the end of the business day

(+: Participant is JGB recipient -: Participant is JGB deliverer)

		U IIII. DISCL			
	DVP1	JGB Deliverer	DVP2	JGB Recipient	docum respon
_	Defaulter	Survivor	Defaulter	Survivor	inaccun docum
D-1	-500	-100	0	600	withou
D+0	-500	-300	0	800	Default occurs
D+1	-500	-100	0	600	
D+2	-500	-50	0	550	Hold 2nd-stage auction
D+3	-500	-50	0	550	Tear-up

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[VM, etc. when 2nd-stage auction fails] VM, etc. only represents the total of Variation Margin and delivery adjustment amount for Unit: JPY100 mil the sake of simplicity.

r	VM, etc.	Market Value of VM (Market Value	Market Value	DVP1	JGB Deliverer	DVP2	JGB Recipient	
	Settlement Day	on previous day)	for Tear-up	Defaulter	Survivor	Defaulter	Survivor	
	D-1	99.00						
	D+0 D+1	90.00		45	9	0	-54	
Financial resources		90.00		0	0	0	0	
	D+2	105.00		-75	-15	0	90	
for VM Haircut at 🔰	Cumulative Tot	tal of VM, etc. (E	0+0 to D+2)	-30	-6	0	<u>36</u>	
2nd-stage auction Financial resources	D+3	105.00		0	0	0	0	Market value for tear-up
			120.00	-75	-7.5	0	82.5	soars, pushing up losses
for VM Haircut at tear-up	Cumulative To up)	tal of VM, etc. (	D+0 to Tear-	<u>-105</u>	-13.5	0	<u>118.5</u>	from default
icai-up	- <b>F</b> )							
	Cumulative tota	al of net payable	il.	Cumulative to	otal of net receiv	able of VM:JPY11.85 bil.		

### (2) When defaulter is recipient of JGB

(surviving Participant of DVP1).

•A Participant who is a recipient of the issue Y subject to clearing defaults on D+0 (Assume that Y is the sole unsettled issue for simplicity sake).

•JSCC raises funds on the date of default (D+0) and performs settlements.

•Neither first-stage auction for a basket containing the issue Y nor second-stage auction has been successful.

• Failing to reach consensus in the consultation, tear-up is to be performed on transactions that remain unsettled after settlements on D+3.

[Unsettled balance] Balance of trades for which the settlement has not been due at the end of the business day

Pa	articipant is.	JGB recipient	-: Participant	is JGB deliverer)			Unit: JP	Y100 mil.			
		DVP1	JGB Deliverer		DVP2	JGB Recipient		DISCLAIMER: This is the reference translation of the original Japanese document. Japan Securities Clearing Corporation shall accept no responsibility or liability for damage or loss caused by any error,			
		Defaulter		Fund Provider	1		JSCC	inaccuracy, or misunderstanding with regard to this translation. This document may not be reproduced or redistributed in whole or in part without the permission of Japan Securities Clearing Corporation.			
	D-1	0	-105		100	5		without the permission of Japan Securities Clearing Corporation.			
	D+0	0	-100	-100	0	100	100	Raise funds and perform settlement			
	D+1	0	-100	-100	0	100	100				
	D+2	0	-100	-100	0	100	100	Hold 2nd-stage auction			
	D+3	0	-100	-100	0	100	100	Tear-up			

[VM, etc. when 2nd-stage auction fails] VM, etc. represents the total of Variation Margin and delivery adjustment amount for simplicity sake. Unit: JPY100 mil.

	•	-	-		-				01111. 31	1 100 mm.	
	VM, etc. Settlement	Market Value of VM (Market	Market Value	DVP1	JGB Deliverer		DVP2 R	JGB Recipient			
	Day	Value on previous day)	for Tear-up	Defaulter	Survivor	Fund Provider	Defaulter S	Survivor	JSCC		
	D-1	110.00									
	D+0	110.00		0	0		0	0			
	D+1	110.00		0	0	0	0	0	0		
Financial resources	D+2	105.00		0	5	5	0	-5	-5		
for VM Haircut at 2nd-stage auction	Cumulative Total of VM, etc. (D+0 to D+2)			0	5	5	0	-5	-5		
C C	D+3	110.00		0	-5	-5	0	5	5	Market value for tear-up	
Financial resources			92.00	0	18	18	0	-18	-18	falls sharply, pushing up	
for VM Haircut at tear-up	Cumulative Total of VM, etc. (D+0 to Tear-up)			0	<u>18</u>	<u>18</u>	0	-18	<u>-18</u>	losses from default	
•	required for	trades settled aft	er the default date	e through			7N. TDX79 ( 1 *)			M.G., J.G., 4	
Deposit of VM is not required for trades settled after the default date through JSCC's funding, but such funded participants shall cover the amount equal to the change in market value related to such trades up to the date of tear-up (surviving Participant of DVP1).					(cumulativ	e receivables of ve total of change nd providers: JP	s in market		Net payable of VM for defaulter (JSCC incurs): - JPY1.8 bil.		

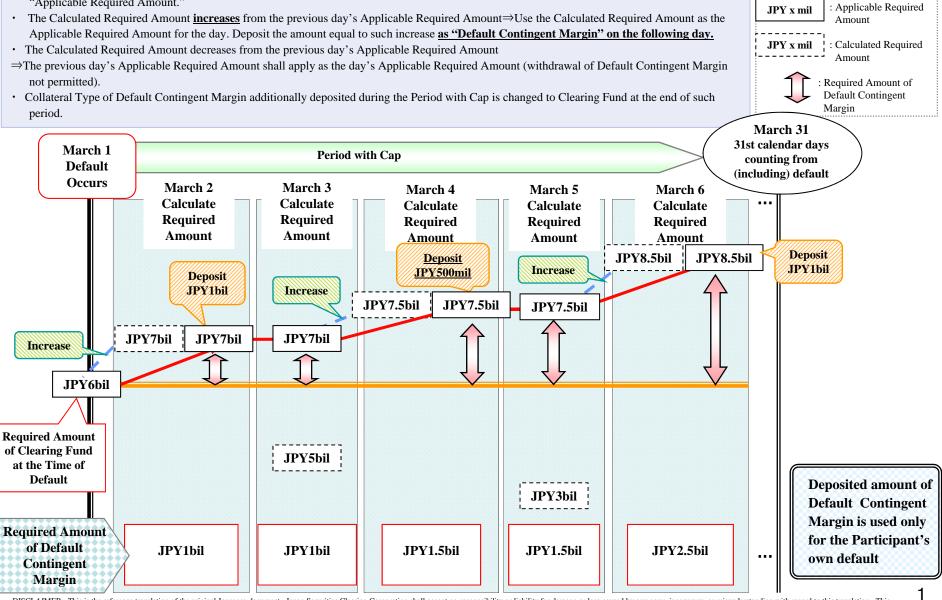
(+: Participant is JGB recipient -: Participant is JGB deliverer)

Annex 11

(Legend)

## **Deposit of Default Contingent Margin during Period with Cap**

Re-calculate the required amount of Clearing Fund on a daily basis Note: The required amount re-calculated daily is referred to as "Calculated Required Amount," and the required amount applied on the day as "Applicable Required Amount." • The Calculated Required Amount increases from the previous day's Applicable Required Amount⇒Use the Calculated Required Amount as the Applicable Required Amount for the day. Deposit the amount equal to such increase as "Default Contingent Margin" on the following day. The Calculated Required Amount decreases from the previous day's Applicable Required Amount ⇒The previous day's Applicable Required Amount shall apply as the day's Applicable Required Amount (withdrawal of Default Contingent Margin not permitted). · Collateral Type of Default Contingent Margin additionally deposited during the Period with Cap is changed to Clearing Fund at the end of such period. March 1 Period with Cap Default Occurs March 2 March 3 March 5 March 6 March 4 Calculate Calculate Calculate Calculate Calculate Required Required Required Required Required Amount Amount Amount Amount Amount JPY8.5bil JPY8.5bil Deposit Increase **JPY500mil** Deposit **JPY1bil** Increase JPY7.5bil JPY7.5bil JPY7.5bil

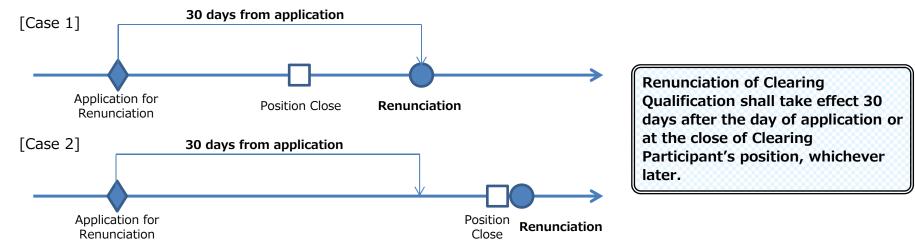


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Timing Renunciation of Clearing Qualification Becomes Effective

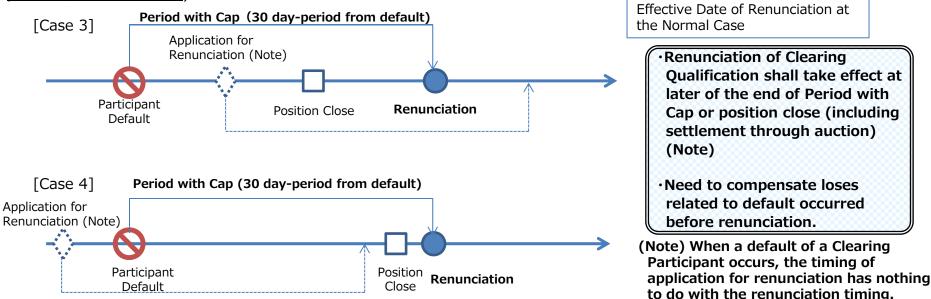
Annex 12





## 2. When Default of Clearing Participant Occurs

(When the application for renunciation of Clearing Qualification is made during the Period with Cap or a default occurs before the day on which 30 calendar days have elapsed since the application or before the close of Clearing Participant's position, whichever later)



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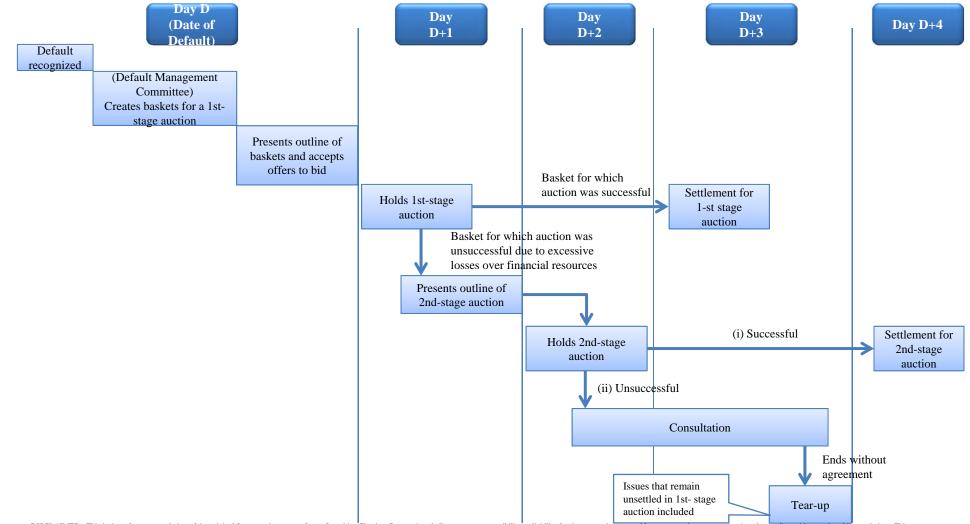
# Example of Typical Default Management Schedule

 $\checkmark$  Hold a first-stage auction on the next business day of the Default Determination Date.

✓ If the first-stage auction is unsuccessful, hold a second-stage auction on the next business day of the first-stage auction.

 $\checkmark$  If the second-stage auction is unsuccessful, hold a consultation by the next business day of the second-stage auction.

 $\checkmark$  If the consultation ends without agreement, implement the tear-up process.



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