Calculation Examples Using SPAN Parameter of Sample File

The margin requirement calculated via SPAN is the SPAN Risk adjusted to take into account the net option value.

Margin requirement = ΣSPAN Risk by Commodity Group - Total Net Option Value

SPAN Risk by Commodity Group = MAX { (Scan Risk + Intracommodity Spread Charge − Intercommodity Spread Discount) , Short Option Minimum Charge}

* Calculation examples shown in this document are model cases calculated based on the sample file. The margin requirement for actual trade may be different.

* For more information about SPAN parameters for each Commodity Group, please refer to【Reference Material 2】SPAN Parameter List of Sample File.

* The JPX-Nikkei Index 400 Futures will be launched on November 25, 2014 (Tue.).

(Reference URL : http://www.ose.or.jp/e/news/ 24597)

Example 1　When having positions of Nikkei 225 Futures as shown in the table below

Portfolio		
	Contract Month June	
Nikkei 225 Futures	Short	Long
	2	5

・Net Position : Short 2 Units - Long 5 Units ＝Long 3 Units

・Price Scan Range : ¥570,000

・Scan Risk : ¥1,710,000

・Net Option Value : ¥0

・Short Option Minimum Charge : ¥0

Margin requirement＝**¥1,710,000**

Example 2　When having positions of Nikkei 225 Options as shown in the table below①

Portfolio		
	Contract Month April	
Nikkei 225 Options Put 18000	Short	Long
	1 3	3

・Net position : Short 13 Units - Long 3 Units＝Short 10 Units

・Scan Risk : ¥5,701,000

・Net Option Value : −¥32,000,000

・Short Option Minimum Charge : ¥294,000

Margin requirement＝**MAX（¥5,701,000, ¥294,000）− （−¥32,000,000）**

＝¥37,701,000

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Example 3　When having positions of Nikkei 225 Options as shown in the table below② (Case where Short Option Minimum Charge will be Margin Requirement)

Portfolio			
Nikkei 225 Options Put 9250	Contract Month April		・Net position　: Short 13 Units – Long 3 Units = Short 10 Units ・Scan Risk : ¥7,000 ・Net Option Value : －¥10,000 ・Short Option Minimum Charge : ¥294,000 Margin requirement = **MAX（¥7,000, ¥294,000）－（－¥10,000）** **=¥304,000**
	Short	Long	
	1 3	3	

Example 4　When having positions of JPX-Nikkei Index 400 Futures as shown in the table below ①

Portfolio			
JPX-Nikkei Index 400 Futures	Contract Month June		・Net position　: Short 14 Units－Long 6 Units = Short 8 Units ・Price Scan Range　: ¥37,500 ・Scan Risk : ¥300,000 ・Net Option Value : ¥0 ・Short Option Minimum Charge : ¥0 Margin requirement = **¥300,000**
	Short	Long	
	1 4	6	

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Example 5　When having positions of JPX-Nikkei Index 400 Futures as shown in the table below ②

Portfolio					
	Contract Month June		Contract Month September		・Net Position by contract month ： （Jun）Short 14 Units－Long 6 Units＝Short 8 Units （Sep）Long 10 Units－Short 8 Units＝Long 2 Units ・Inter-month Net position ：Short 8 Units（Jun）－Long 2 Units（Sep）＝Short 6 Units ・Number of Intercommodity Spread ：2 Units ・Scan Risk ： ¥225,000 ・Intracommodity Spread Charge ：¥7,600 Margin requirement＝**¥225,000＋¥7,600＝¥232,600**
	Short	Long	Short	Long	
JPX-Nikkei Index 400 Futures	14	6	8	10	

Example 6　When having positions of JPX-Nikkei Index 400 Futures and Nikkei 225 Futures as shown in the table below

Portfolio			（JPX-Nikkei Index 400） ・Net Position ：Long 10 Units ・Scan Risk ： ¥375,000 ・Intercommodity Spread Charge ：¥306,528 SPAN Risk by Commodity Group ＝ ¥375,000－¥306,528＝¥68,472	（Nikkei 225） ・Net Position ：Short 1 Unit ・Scan Risk ： ¥570,000 ・Intercommodity Spread Charge ：¥344,873 SPAN Risk by Commodity Group ＝ ¥570,000－¥344,873＝¥225,127
	Contract Month June			
	Short	Long		
JPX-Nikkei Index 400 Futures	－	10		
Nikkei 225 Futures	1	－	Margin requirement＝**¥68,472＋¥225,127＝¥293,599**	

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