



21-472

TO: Clearing Member Firms
Chief Financial Officers
Back Office Managers
Margin Managers

FROM: CME Clearing

SUBJECT: Performance Bond Requirements

DATE: Thursday, December 16, 2021

To receive advanced notification of Performance Bond (margin) changes, through our free automated mailing list, go to

<http://www.cmegroup.com/newsletter/web2lead/web2sf-old.html>

and subscribe to the Performance Bond Rates Advisory Notice listserver.

As per the normal review of market volatility to ensure adequate collateral coverage, the Chicago Mercantile Exchange Inc., Clearing House Risk Management staff approved the performance bond requirements for the following products listed below. Please email any questions to Clearing.RiskManagement@cmegroup.com.

The rates will be effective after the close of business on

Friday, December 17, 2021.

Current rates as of:

Thursday, December 16, 2021.

In this current advisory there are changes to the Short Option Minimum and/or the Volatility Scan Range. Below are descriptions of what each change affects:

The Short Option Minimum (SOM) is a charge that is applied only to portfolios concentrated in short options that do not generate a minimum margin requirement level when margins are calculated using the normal 16 SPAN scenarios. The SOM charge per short calls or short puts is a percentage of the outright margin on one underlying futures contract.

The volatility scan range is the change in implied volatility that is used in each of SPAN's 16 scenarios.

Advisory includes change to certain product's Splitting methodology. The specific product can be found on page 26 of the advisory

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
Outright Rates								
AGRICULTURE - Outright Rates								
BLOOMBERG COMDITY INDEX SWAP MARKER (DGI)								
DGI	Non-HRP		Decrease	USD	900	900	525	525
DGI	HRP		Decrease	USD	990	900	578	525
BLOOMBERG COMMODITY INDEX SWAPS (DGS)								
DGS	Non-HRP		Decrease	USD	900	900	525	525
DGS	HRP		Decrease	USD	990	900	578	525
BTIC ON BLOOMBERG COMMODITY INDEX S (DGT)								
DGT	Non-HRP		Decrease	USD	900	900	525	525
DGT	HRP		Decrease	USD	990	900	578	525
CLASS III MILK FUTURES (DA)								
DA	Non-HRP	Months 16+	Increase	USD	650	650	750	750
DA	HRP	Months 16+	Increase	USD	715	650	825	750
MLK MID FUTURES (JQ)								
JQ	Non-HRP	Months 16+	Increase	USD	325	325	375	375
JQ	HRP	Months 16+	Increase	USD	358	325	413	375
ELECTRICITY - Outright Rates								
GERMAN POWER PEAKLOAD CAL MONTH FUT (DEP)								
DEP	Non-HRP	Mnths 7-9	Increase	EUR	4,000	4,000	6,000	6,000
DEP	HRP	Mnths 7-9	Increase	EUR	4,400	4,000	6,600	6,000
DEP	Non-HRP	Mnths 10+	Increase	EUR	2,800	2,800	4,000	4,000
DEP	HRP	Mnths 10+	Increase	EUR	3,080	2,800	4,400	4,000
ITALIAN POWER BASELOAD GME CAL FUT (ITB)								
ITB	Non-HRP	Mnth 1	Increase	EUR	8,600	8,600	13,000	13,000
ITB	HRP	Mnth 1	Increase	EUR	9,460	8,600	14,300	13,000
ITB	Non-HRP	Mnth 2	Increase	EUR	8,400	8,400	13,000	13,000
ITB	HRP	Mnth 2	Increase	EUR	9,240	8,400	14,300	13,000
ITB	Non-HRP	Mnth 3	Increase	EUR	7,800	7,800	12,000	12,000
ITB	HRP	Mnth 3	Increase	EUR	8,580	7,800	13,200	12,000
ITB	Non-HRP	Mnths 4-9	Increase	EUR	7,800	7,800	12,000	12,000
ITB	HRP	Mnths 4-9	Increase	EUR	8,580	7,800	13,200	12,000
ITB	Non-HRP	Mnths 10+	Increase	EUR	1,900	1,900	3,100	3,100
ITB	HRP	Mnths 10+	Increase	EUR	2,090	1,900	3,410	3,100
ITALIAN POWER PEAKLOAD GME CAL FUT (ITP)								
ITP	Non-HRP	Mnth 1	Increase	EUR	4,900	4,900	8,000	8,000
ITP	HRP	Mnth 1	Increase	EUR	5,390	4,900	8,800	8,000

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
Outright Rates								
ITP	Non-HRP	Mnth 2	Increase	EUR	4,900	4,900	8,000	8,000
ITP	HRP	Mnth 2	Increase	EUR	5,390	4,900	8,800	8,000
ITP	Non-HRP	Mnth 3	Increase	EUR	4,200	4,200	7,000	7,000
ITP	HRP	Mnth 3	Increase	EUR	4,620	4,200	7,700	7,000
ITP	Non-HRP	Mnths 4-9	Increase	EUR	4,200	4,200	7,000	7,000
ITP	HRP	Mnths 4-9	Increase	EUR	4,620	4,200	7,700	7,000
ITP	Non-HRP	Mnths 10+	Increase	EUR	1,000	1,000	1,800	1,800
ITP	HRP	Mnths 10+	Increase	EUR	1,100	1,000	1,980	1,800

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
Outright Rates								
FX - Outright Rates								
CHILEAN PESO/US DOLLAR CLP/USD FUT (CHP)								
CHP	Non-HRP		Increase	USD	2,500	2,500	3,000	3,000
CHP	HRP		Increase	USD	2,750	2,500	3,300	3,000
EC/AD CROSS RATE FUTURES (CA)								
CA	Non-HRP		Increase	AUD	3,400	3,400	3,850	3,850
CA	HRP		Increase	AUD	3,740	3,400	4,235	3,850
EC/CD CROSS RATE FUTURE (CC)								
CC	Non-HRP		Increase	CAD	2,800	2,800	3,000	3,000
CC	HRP		Increase	CAD	3,080	2,800	3,300	3,000
EC/NKR FUTURES (CN)								
CN	Non-HRP		Increase	NOK	32,400	32,400	36,000	36,000
CN	HRP		Increase	NOK	35,640	32,400	39,600	36,000
EC/SKR CROSS RATE FUTURES (KE)								
KE	Non-HRP		Increase	SEK	20,000	20,000	22,000	22,000
KE	HRP		Increase	SEK	22,000	20,000	24,200	22,000
E-MINI J-YEN FUTURE (J7)								
J7	Non-HRP	Month 1-3	Increase	USD	1,140	1,140	1,250	1,250
J7	HRP	Month 1-3	Increase	USD	1,254	1,140	1,375	1,250
J7	Non-HRP	Months 4+	Increase	USD	1,140	1,140	1,250	1,250
J7	HRP	Months 4+	Increase	USD	1,254	1,140	1,375	1,250
ISRAELI SHEKEL FUTURES (IS)								
IS	Non-HRP		Increase	USD	7,800	7,800	9,200	9,200
IS	HRP		Increase	USD	8,580	7,800	10,120	9,200
JAPANESE YEN FUTURES (JY)								
JY	Non-HRP	Month 1-3	Increase	USD	2,280	2,280	2,500	2,500
JY	HRP	Month 1-3	Increase	USD	2,508	2,280	2,750	2,500
JY	Non-HRP	Months 4+	Increase	USD	2,280	2,280	2,500	2,500
JY	HRP	Months 4+	Increase	USD	2,508	2,280	2,750	2,500
MICRO CHF/USD FUTURES (MSF)								
MSF	Non-HRP	Month 1-3	Increase	USD	330	330	350	350
MSF	HRP	Month 1-3	Increase	USD	363	330	385	350
MSF	Non-HRP	Months 4+	Increase	USD	330	330	350	350
MSF	HRP	Months 4+	Increase	USD	363	330	385	350

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
Outright Rates								
MICRO JPY/USD (MJY)								
MJY	Non-HRP	Month 1-3	Increase	USD	228	228	250	250
MJY	HRP	Month 1-3	Increase	USD	251	228	275	250
MJY	Non-HRP	Months 4+	Increase	USD	228	228	250	250
MJY	HRP	Months 4+	Increase	USD	251	228	275	250
MICRO USD/CHF FUTURES (M6S)								
M6S	Non-HRP	Month 1-3	Increase	CHF	300	300	320	320
M6S	HRP	Month 1-3	Increase	CHF	330	300	352	320
M6S	Non-HRP	Months 4+	Increase	CHF	300	300	320	320
M6S	HRP	Months 4+	Increase	CHF	330	300	352	320
MICRO USD/JPY FUTURES (M6J)								
M6J	Non-HRP	Month 1-3	Increase	JPY	24,940	24,940	28,365	28,365
M6J	HRP	Month 1-3	Increase	JPY	27,434	24,940	31,202	28,365
M6J	Non-HRP	Months 4+	Increase	JPY	24,940	24,940	28,365	28,365
M6J	HRP	Months 4+	Increase	JPY	27,434	24,940	31,202	28,365
SWISS FRANC FUTURES (SF)								
SF	Non-HRP	Month 1-3	Increase	USD	3,300	3,300	3,500	3,500
SF	HRP	Month 1-3	Increase	USD	3,630	3,300	3,850	3,500
SF	Non-HRP	Months 4+	Increase	USD	3,300	3,300	3,500	3,500
SF	HRP	Months 4+	Increase	USD	3,630	3,300	3,850	3,500
US DOLLARS/CHILEAN PESO FUTURES (CHL)								
CHL	Non-HRP	Jan 14 - Dec 14	Increase	USD	3,240	3,240	3,900	3,900
CHL	HRP	Jan 14 - Dec 14	Increase	USD	3,564	3,240	4,290	3,900
CHL	Non-HRP	Jan15 - Dec15	Increase	USD	3,240	3,240	3,900	3,900
CHL	HRP	Jan15 - Dec15	Increase	USD	3,564	3,240	4,290	3,900
CHL	Non-HRP	Jan16 - Dec16	Increase	USD	3,240	3,240	3,900	3,900
CHL	HRP	Jan16 - Dec16	Increase	USD	3,564	3,240	4,290	3,900
CHL	Non-HRP	Jan17+	Increase	USD	3,240	3,240	3,900	3,900
CHL	HRP	Jan17+	Increase	USD	3,564	3,240	4,290	3,900

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
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Outright Rates

METALS - Outright Rates

COMEX 5000 SILVER FUTURES (SI)

SI	Non-HRP	Mnth1	Decrease	USD	11,500	11,500	10,350	10,350
SI	HRP	Mnth1	Decrease	USD	12,650	11,500	11,385	10,350
SI	Non-HRP	Mnth2	Decrease	USD	11,500	11,500	10,350	10,350
SI	HRP	Mnth2	Decrease	USD	12,650	11,500	11,385	10,350
SI	Non-HRP	Mnth3	Decrease	USD	11,500	11,500	10,350	10,350
SI	HRP	Mnth3	Decrease	USD	12,650	11,500	11,385	10,350
SI	Non-HRP	Mnth4	Decrease	USD	11,500	11,500	10,350	10,350
SI	HRP	Mnth4	Decrease	USD	12,650	11,500	11,385	10,350
SI	Non-HRP	Mnth5	Decrease	USD	11,500	11,500	10,350	10,350
SI	HRP	Mnth5	Decrease	USD	12,650	11,500	11,385	10,350
SI	Non-HRP	Mnth6	Decrease	USD	11,500	11,500	10,350	10,350
SI	HRP	Mnth6	Decrease	USD	12,650	11,500	11,385	10,350
SI	Non-HRP	Mnth7	Decrease	USD	11,500	11,500	10,350	10,350
SI	HRP	Mnth7	Decrease	USD	12,650	11,500	11,385	10,350
SI	Non-HRP	Mnth8	Decrease	USD	11,500	11,500	10,350	10,350
SI	HRP	Mnth8	Decrease	USD	12,650	11,500	11,385	10,350
SI	Non-HRP	Mnth9	Decrease	USD	11,500	11,500	10,350	10,350
SI	HRP	Mnth9	Decrease	USD	12,650	11,500	11,385	10,350
SI	Non-HRP	Mnth10	Decrease	USD	11,500	11,500	10,350	10,350
SI	HRP	Mnth10	Decrease	USD	12,650	11,500	11,385	10,350
SI	Non-HRP	Mnth11	Decrease	USD	11,500	11,500	10,350	10,350
SI	HRP	Mnth11	Decrease	USD	12,650	11,500	11,385	10,350
SI	Non-HRP	Mnth12	Decrease	USD	11,500	11,500	10,350	10,350
SI	HRP	Mnth12	Decrease	USD	12,650	11,500	11,385	10,350
SI	Non-HRP	Mnth13+	Decrease	USD	11,500	11,500	10,350	10,350
SI	HRP	Mnth13+	Decrease	USD	12,650	11,500	11,385	10,350

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
Outright Rates								

COMEX 5000 SILVER TRADE AT SETTLE (SIT)

SIT	Non-HRP	Mnth1	Decrease	USD	11,500	11,500	10,350	10,350
SIT	HRP	Mnth1	Decrease	USD	12,650	11,500	11,385	10,350
SIT	Non-HRP	Mnth2	Decrease	USD	11,500	11,500	10,350	10,350
SIT	HRP	Mnth2	Decrease	USD	12,650	11,500	11,385	10,350
SIT	Non-HRP	Mnth3	Decrease	USD	11,500	11,500	10,350	10,350
SIT	HRP	Mnth3	Decrease	USD	12,650	11,500	11,385	10,350
SIT	Non-HRP	Mnth4	Decrease	USD	11,500	11,500	10,350	10,350
SIT	HRP	Mnth4	Decrease	USD	12,650	11,500	11,385	10,350
SIT	Non-HRP	Mnth5	Decrease	USD	11,500	11,500	10,350	10,350
SIT	HRP	Mnth5	Decrease	USD	12,650	11,500	11,385	10,350
SIT	Non-HRP	Mnth6	Decrease	USD	11,500	11,500	10,350	10,350
SIT	HRP	Mnth6	Decrease	USD	12,650	11,500	11,385	10,350
SIT	Non-HRP	Mnth7	Decrease	USD	11,500	11,500	10,350	10,350
SIT	HRP	Mnth7	Decrease	USD	12,650	11,500	11,385	10,350
SIT	Non-HRP	Mnth8	Decrease	USD	11,500	11,500	10,350	10,350
SIT	HRP	Mnth8	Decrease	USD	12,650	11,500	11,385	10,350
SIT	Non-HRP	Mnth9	Decrease	USD	11,500	11,500	10,350	10,350
SIT	HRP	Mnth9	Decrease	USD	12,650	11,500	11,385	10,350
SIT	Non-HRP	Mnth10	Decrease	USD	11,500	11,500	10,350	10,350
SIT	HRP	Mnth10	Decrease	USD	12,650	11,500	11,385	10,350
SIT	Non-HRP	Mnth11	Decrease	USD	11,500	11,500	10,350	10,350
SIT	HRP	Mnth11	Decrease	USD	12,650	11,500	11,385	10,350
SIT	Non-HRP	Mnth12	Decrease	USD	11,500	11,500	10,350	10,350
SIT	HRP	Mnth12	Decrease	USD	12,650	11,500	11,385	10,350
SIT	Non-HRP	Mnth13+	Decrease	USD	11,500	11,500	10,350	10,350
SIT	HRP	Mnth13+	Decrease	USD	12,650	11,500	11,385	10,350

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
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Outright Rates

COMEX MINY SILVER FUTURES (QI)

QI	Non-HRP	Mnth1	Decrease	USD	5,750	5,750	5,175	5,175
QI	HRP	Mnth1	Decrease	USD	6,325	5,750	5,693	5,175
QI	Non-HRP	Mnth2	Decrease	USD	5,750	5,750	5,175	5,175
QI	HRP	Mnth2	Decrease	USD	6,325	5,750	5,693	5,175
QI	Non-HRP	Mnth3	Decrease	USD	5,750	5,750	5,175	5,175
QI	HRP	Mnth3	Decrease	USD	6,325	5,750	5,693	5,175
QI	Non-HRP	Mnth4	Decrease	USD	5,750	5,750	5,175	5,175
QI	HRP	Mnth4	Decrease	USD	6,325	5,750	5,693	5,175
QI	Non-HRP	Mnth5	Decrease	USD	5,750	5,750	5,175	5,175
QI	HRP	Mnth5	Decrease	USD	6,325	5,750	5,693	5,175
QI	Non-HRP	Mnth6	Decrease	USD	5,750	5,750	5,175	5,175
QI	HRP	Mnth6	Decrease	USD	6,325	5,750	5,693	5,175
QI	Non-HRP	Mnth7	Decrease	USD	5,750	5,750	5,175	5,175
QI	HRP	Mnth7	Decrease	USD	6,325	5,750	5,693	5,175
QI	Non-HRP	Mnth8	Decrease	USD	5,750	5,750	5,175	5,175
QI	HRP	Mnth8	Decrease	USD	6,325	5,750	5,693	5,175
QI	Non-HRP	Mnth9	Decrease	USD	5,750	5,750	5,175	5,175
QI	HRP	Mnth9	Decrease	USD	6,325	5,750	5,693	5,175
QI	Non-HRP	Mnth10	Decrease	USD	5,750	5,750	5,175	5,175
QI	HRP	Mnth10	Decrease	USD	6,325	5,750	5,693	5,175
QI	Non-HRP	Mnth11	Decrease	USD	5,750	5,750	5,175	5,175
QI	HRP	Mnth11	Decrease	USD	6,325	5,750	5,693	5,175
QI	Non-HRP	Mnth12	Decrease	USD	5,750	5,750	5,175	5,175
QI	HRP	Mnth12	Decrease	USD	6,325	5,750	5,693	5,175
QI	Non-HRP	Mnth13+	Decrease	USD	5,750	5,750	5,175	5,175
QI	HRP	Mnth13+	Decrease	USD	6,325	5,750	5,693	5,175

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
Outright Rates								

E-MINI SILVER FUTURES (6Q)

6Q	Non-HRP	Mnth1	Decrease	USD	2,300	2,300	2,070	2,070
6Q	HRP	Mnth1	Decrease	USD	2,530	2,300	2,277	2,070
6Q	Non-HRP	Mnth2	Decrease	USD	2,300	2,300	2,070	2,070
6Q	HRP	Mnth2	Decrease	USD	2,530	2,300	2,277	2,070
6Q	Non-HRP	Mnth3	Decrease	USD	2,300	2,300	2,070	2,070
6Q	HRP	Mnth3	Decrease	USD	2,530	2,300	2,277	2,070
6Q	Non-HRP	Mnth4	Decrease	USD	2,300	2,300	2,070	2,070
6Q	HRP	Mnth4	Decrease	USD	2,530	2,300	2,277	2,070
6Q	Non-HRP	Mnth5	Decrease	USD	2,300	2,300	2,070	2,070
6Q	HRP	Mnth5	Decrease	USD	2,530	2,300	2,277	2,070
6Q	Non-HRP	Mnth6	Decrease	USD	2,300	2,300	2,070	2,070
6Q	HRP	Mnth6	Decrease	USD	2,530	2,300	2,277	2,070
6Q	Non-HRP	Mnth7	Decrease	USD	2,300	2,300	2,070	2,070
6Q	HRP	Mnth7	Decrease	USD	2,530	2,300	2,277	2,070
6Q	Non-HRP	Mnth8	Decrease	USD	2,300	2,300	2,070	2,070
6Q	HRP	Mnth8	Decrease	USD	2,530	2,300	2,277	2,070
6Q	Non-HRP	Mnth9	Decrease	USD	2,300	2,300	2,070	2,070
6Q	HRP	Mnth9	Decrease	USD	2,530	2,300	2,277	2,070
6Q	Non-HRP	Mnth10	Decrease	USD	2,300	2,300	2,070	2,070
6Q	HRP	Mnth10	Decrease	USD	2,530	2,300	2,277	2,070
6Q	Non-HRP	Mnth11	Decrease	USD	2,300	2,300	2,070	2,070
6Q	HRP	Mnth11	Decrease	USD	2,530	2,300	2,277	2,070
6Q	Non-HRP	Mnth12	Decrease	USD	2,300	2,300	2,070	2,070
6Q	HRP	Mnth12	Decrease	USD	2,530	2,300	2,277	2,070
6Q	Non-HRP	Mnth13+	Decrease	USD	2,300	2,300	2,070	2,070
6Q	HRP	Mnth13+	Decrease	USD	2,530	2,300	2,277	2,070

MICRO PALLADIUM FUTURES (PAM)

PAM	Non-HRP	Mnth 1	Decrease	USD	2,250	2,250	2,050	2,050
PAM	HRP	Mnth 1	Decrease	USD	2,475	2,250	2,255	2,050
PAM	Non-HRP	Mnth 2	Decrease	USD	2,200	2,200	2,000	2,000
PAM	HRP	Mnth 2	Decrease	USD	2,420	2,200	2,200	2,000
PAM	Non-HRP	Mnth 3	Decrease	USD	2,150	2,150	1,950	1,950
PAM	HRP	Mnth 3	Decrease	USD	2,365	2,150	2,145	1,950
PAM	Non-HRP	Mnth 4+	Decrease	USD	2,150	2,150	1,950	1,950
PAM	HRP	Mnth 4+	Decrease	USD	2,365	2,150	2,145	1,950

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
Outright Rates								

MICRO SILVER FUTURES (SIL)

SIL	Non-HRP	Mnth1	Decrease	USD	2,300	2,300	2,070	2,070
SIL	HRP	Mnth1	Decrease	USD	2,530	2,300	2,277	2,070
SIL	Non-HRP	Mnth2	Decrease	USD	2,300	2,300	2,070	2,070
SIL	HRP	Mnth2	Decrease	USD	2,530	2,300	2,277	2,070
SIL	Non-HRP	Mnth3	Decrease	USD	2,300	2,300	2,070	2,070
SIL	HRP	Mnth3	Decrease	USD	2,530	2,300	2,277	2,070
SIL	Non-HRP	Mnth4	Decrease	USD	2,300	2,300	2,070	2,070
SIL	HRP	Mnth4	Decrease	USD	2,530	2,300	2,277	2,070
SIL	Non-HRP	Mnth5	Decrease	USD	2,300	2,300	2,070	2,070
SIL	HRP	Mnth5	Decrease	USD	2,530	2,300	2,277	2,070
SIL	Non-HRP	Mnth6	Decrease	USD	2,300	2,300	2,070	2,070
SIL	HRP	Mnth6	Decrease	USD	2,530	2,300	2,277	2,070
SIL	Non-HRP	Mnth7	Decrease	USD	2,300	2,300	2,070	2,070
SIL	HRP	Mnth7	Decrease	USD	2,530	2,300	2,277	2,070
SIL	Non-HRP	Mnth8	Decrease	USD	2,300	2,300	2,070	2,070
SIL	HRP	Mnth8	Decrease	USD	2,530	2,300	2,277	2,070
SIL	Non-HRP	Mnth9	Decrease	USD	2,300	2,300	2,070	2,070
SIL	HRP	Mnth9	Decrease	USD	2,530	2,300	2,277	2,070
SIL	Non-HRP	Mnth10	Decrease	USD	2,300	2,300	2,070	2,070
SIL	HRP	Mnth10	Decrease	USD	2,530	2,300	2,277	2,070
SIL	Non-HRP	Mnth11	Decrease	USD	2,300	2,300	2,070	2,070
SIL	HRP	Mnth11	Decrease	USD	2,530	2,300	2,277	2,070
SIL	Non-HRP	Mnth12	Decrease	USD	2,300	2,300	2,070	2,070
SIL	HRP	Mnth12	Decrease	USD	2,530	2,300	2,277	2,070
SIL	Non-HRP	Mnth13+	Decrease	USD	2,300	2,300	2,070	2,070
SIL	HRP	Mnth13+	Decrease	USD	2,530	2,300	2,277	2,070

PALLADIUM FUTURES NYMEX (PA)

PA	Non-HRP	Mnth 1	Decrease	USD	22,500	22,500	20,500	20,500
PA	HRP	Mnth 1	Decrease	USD	24,750	22,500	22,550	20,500
PA	Non-HRP	Mnth 2	Decrease	USD	22,000	22,000	20,000	20,000
PA	HRP	Mnth 2	Decrease	USD	24,200	22,000	22,000	20,000
PA	Non-HRP	Mnth 3	Decrease	USD	21,500	21,500	19,500	19,500
PA	HRP	Mnth 3	Decrease	USD	23,650	21,500	21,450	19,500
PA	Non-HRP	Mnth 4+	Decrease	USD	21,500	21,500	19,500	19,500
PA	HRP	Mnth 4+	Decrease	USD	23,650	21,500	21,450	19,500

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
Outright Rates								
PALLADIUM TAS (PAT)								
PAT	Non-HRP	Mnth 1	Decrease	USD	22,500	22,500	20,500	20,500
PAT	HRP	Mnth 1	Decrease	USD	24,750	22,500	22,550	20,500
PAT	Non-HRP	Mnth 2	Decrease	USD	22,000	22,000	20,000	20,000
PAT	HRP	Mnth 2	Decrease	USD	24,200	22,000	22,000	20,000
PAT	Non-HRP	Mnth 3	Decrease	USD	21,500	21,500	19,500	19,500
PAT	HRP	Mnth 3	Decrease	USD	23,650	21,500	21,450	19,500
PAT	Non-HRP	Mnth 4+	Decrease	USD	21,500	21,500	19,500	19,500
PAT	HRP	Mnth 4+	Decrease	USD	23,650	21,500	21,450	19,500
PLATINUM FUTURES NYMEX (PL)								
PL	Non-HRP	Mths 1	Decrease	USD	3,600	3,600	3,250	3,250
PL	HRP	Mths 1	Decrease	USD	3,960	3,600	3,575	3,250
PL	Non-HRP	Mths 2+	Decrease	USD	3,600	3,600	3,250	3,250
PL	HRP	Mths 2+	Decrease	USD	3,960	3,600	3,575	3,250
PLATINUM FUTURES TAS (PLT)								
PLT	Non-HRP	Mths 1	Decrease	USD	3,600	3,600	3,250	3,250
PLT	HRP	Mths 1	Decrease	USD	3,960	3,600	3,575	3,250
PLT	Non-HRP	Mths 2+	Decrease	USD	3,600	3,600	3,250	3,250
PLT	HRP	Mths 2+	Decrease	USD	3,960	3,600	3,575	3,250

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
Outright Rates								

NATURAL GAS - Outright Rates

DUTCH TTF NAT GAS FIN M-1 AVG PRC (TTB)

TTB	Non-HRP	Mnth 1	Increase	USD	67,900	67,900	88,000	88,000
TTB	HRP	Mnth 1	Increase	USD	74,690	67,900	96,800	88,000
TTB	Non-HRP	Mnths 2-3	Increase	USD	67,900	67,900	81,000	81,000
TTB	HRP	Mnths 2-3	Increase	USD	74,690	67,900	89,100	81,000
TTB	Non-HRP	Mnths 4	Increase	USD	36,000	36,000	40,000	40,000
TTB	HRP	Mnths 4	Increase	USD	39,600	36,000	44,000	40,000
TTB	Non-HRP	Mnths 5	Increase	USD	28,000	28,000	30,000	30,000
TTB	HRP	Mnths 5	Increase	USD	30,800	28,000	33,000	30,000
TTB	Non-HRP	Mnths 6-15	Increase	USD	28,000	28,000	30,000	30,000
TTB	HRP	Mnths 6-15	Increase	USD	30,800	28,000	33,000	30,000

DUTCH TTF NATURAL GAS CAL MONTH FUT (TTF)

TTF	Non-HRP	Mnth 1	Increase	EUR	15,000	15,000	19,500	19,500
TTF	HRP	Mnth 1	Increase	EUR	16,500	15,000	21,450	19,500
TTF	Non-HRP	Mnth 2-3	Increase	EUR	15,000	15,000	18,000	18,000
TTF	HRP	Mnth 2-3	Increase	EUR	16,500	15,000	19,800	18,000
TTF	Non-HRP	Mnth 4	Increase	EUR	8,000	8,000	9,000	9,000
TTF	HRP	Mnth 4	Increase	EUR	8,800	8,000	9,900	9,000
TTF	Non-HRP	Mnths 5	Increase	EUR	7,200	7,200	8,000	8,000
TTF	HRP	Mnths 5	Increase	EUR	7,920	7,200	8,800	8,000
TTF	Non-HRP	Mnths 6-15	Increase	EUR	6,200	6,200	6,750	6,750
TTF	HRP	Mnths 6-15	Increase	EUR	6,820	6,200	7,425	6,750

DUTCH TTF NATURAL GAS DAILY FUTURES (TTD)

TTD	Non-HRP	Day 1-3	Increase	EUR	400	400	500	500
TTD	HRP	Day 1-3	Increase	EUR	440	400	550	500
TTD	Non-HRP	Day 4-7	Increase	EUR	400	400	500	500
TTD	HRP	Day 4-7	Increase	EUR	440	400	550	500
TTD	Non-HRP	Day 8-14	Increase	EUR	390	390	480	480
TTD	HRP	Day 8-14	Increase	EUR	429	390	528	480
TTD	Non-HRP	Day 15+	Increase	EUR	350	350	470	470
TTD	HRP	Day 15+	Increase	EUR	385	350	517	470

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
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Outright Rates

DUTCH TTF NATURAL GAS FIN CAL M (TTG)

TTG	Non-HRP	Mnth 1	Increase	EUR	15,000	15,000	19,500	19,500
TTG	HRP	Mnth 1	Increase	EUR	16,500	15,000	21,450	19,500
TTG	Non-HRP	Mnth 2-3	Increase	EUR	15,000	15,000	18,000	18,000
TTG	HRP	Mnth 2-3	Increase	EUR	16,500	15,000	19,800	18,000
TTG	Non-HRP	Mnth 4	Increase	EUR	8,000	8,000	9,000	9,000
TTG	HRP	Mnth 4	Increase	EUR	8,800	8,000	9,900	9,000
TTG	Non-HRP	Mnths 5	Increase	EUR	7,200	7,200	8,000	8,000
TTG	HRP	Mnths 5	Increase	EUR	7,920	7,200	8,800	8,000
TTG	Non-HRP	Mnths 6-15	Increase	EUR	6,200	6,200	6,750	6,750
TTG	HRP	Mnths 6-15	Increase	EUR	6,820	6,200	7,425	6,750

DUTCH TTF NATURAL GAS FIN DAY AHEAD (TTI)

TTI	Non-HRP	Mnth 1	Increase	EUR	15,000	15,000	19,500	19,500
TTI	HRP	Mnth 1	Increase	EUR	16,500	15,000	21,450	19,500
TTI	Non-HRP	Mnth 2	Increase	EUR	15,000	15,000	19,500	19,500
TTI	HRP	Mnth 2	Increase	EUR	16,500	15,000	21,450	19,500
TTI	Non-HRP	Mnth 3-4	Increase	EUR	15,000	15,000	17,500	17,500
TTI	HRP	Mnth 3-4	Increase	EUR	16,500	15,000	19,250	17,500
TTI	Non-HRP	Mnths 5-6	Increase	EUR	8,000	8,000	9,000	9,000
TTI	HRP	Mnths 5-6	Increase	EUR	8,800	8,000	9,900	9,000
TTI	Non-HRP	Mnths 7-15	Increase	EUR	6,200	6,200	6,750	6,750
TTI	HRP	Mnths 7-15	Increase	EUR	6,820	6,200	7,425	6,750

DUTCH TTF NATURAL GAS FRONT MTH FUT (TTE)

TTE	Non-HRP	Mnth 1	Increase	USD	67,900	67,900	88,000	88,000
TTE	HRP	Mnth 1	Increase	USD	74,690	67,900	96,800	88,000
TTE	Non-HRP	Mnths 2-3	Increase	USD	67,900	67,900	81,000	81,000
TTE	HRP	Mnths 2-3	Increase	USD	74,690	67,900	89,100	81,000
TTE	Non-HRP	Mnths 4	Increase	USD	36,000	36,000	40,000	40,000
TTE	HRP	Mnths 4	Increase	USD	39,600	36,000	44,000	40,000
TTE	Non-HRP	Mnths 5	Increase	USD	28,000	28,000	30,000	30,000
TTE	HRP	Mnths 5	Increase	USD	30,800	28,000	33,000	30,000
TTE	Non-HRP	Mnths 6-15	Increase	USD	28,000	28,000	30,000	30,000
TTE	HRP	Mnths 6-15	Increase	USD	30,800	28,000	33,000	30,000

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
Outright Rates								
LNG JAPAN KOREA MARKER PLATTS FUT (JKM)								
JKM	Non-HRP	Month 1	Increase	USD	70,000	70,000	85,000	85,000
JKM	HRP	Month 1	Increase	USD	77,000	70,000	93,500	85,000
JKM	Non-HRP	Month 3	Decrease	USD	62,500	62,500	38,000	38,000
JKM	HRP	Month 3	Decrease	USD	68,750	62,500	41,800	38,000
JKM	Non-HRP	Mnths 4	Decrease	USD	38,000	38,000	32,000	32,000
JKM	HRP	Mnths 4	Decrease	USD	41,800	38,000	35,200	32,000
LNG JAPAN KOREA MRK YEN FUT (JKY)								
JKY	Non-HRP	Month 1	Increase	JPY	7,950,000	7,950,000	9,700,000	9,700,000
JKY	HRP	Month 1	Increase	JPY	8,745,000	7,950,000	10,670,000	9,700,000
JKY	Non-HRP	Month 3	Decrease	JPY	7,100,000	7,100,000	4,350,000	4,350,000
JKY	HRP	Month 3	Decrease	JPY	7,810,000	7,100,000	4,785,000	4,350,000
LNG JAPAN/KOREA MARKER (PLATTS) BAC (JKB)								
JKB	Non-HRP	Month 1	Increase	USD	70,000	70,000	85,000	85,000
JKB	HRP	Month 1	Increase	USD	77,000	70,000	93,500	85,000
JKB	Non-HRP	Month 3	Decrease	USD	62,500	62,500	38,000	38,000
JKB	HRP	Month 3	Decrease	USD	68,750	62,500	41,800	38,000
JKB	Non-HRP	Mnths 4	Decrease	USD	38,000	38,000	32,000	32,000
JKB	HRP	Mnths 4	Decrease	USD	41,800	38,000	35,200	32,000
LNG JAPAN/KOREA MARKER (PLATTS) FRO (JKF)								
JKF	Non-HRP	Month 1	Decrease	USD	70,000	70,000	67,500	67,500
JKF	HRP	Month 1	Decrease	USD	77,000	70,000	74,250	67,500
JKF	Non-HRP	Month 2	Decrease	USD	67,500	67,500	38,000	38,000
JKF	HRP	Month 2	Decrease	USD	74,250	67,500	41,800	38,000
JKF	Non-HRP	Month 3	Decrease	USD	62,500	62,500	32,000	32,000
JKF	HRP	Month 3	Decrease	USD	68,750	62,500	35,200	32,000
NBD NATURAL GAS DAILY FUTURE (NBD)								
NBD	Non-HRP	Day 1-3	Increase	GBP	450	450	550	550
NBD	HRP	Day 1-3	Increase	GBP	495	450	605	550
NBD	Non-HRP	Day 4-7	Increase	GBP	420	420	500	500
NBD	HRP	Day 4-7	Increase	GBP	462	420	550	500
NBD	Non-HRP	Day 8-14	Increase	GBP	420	420	500	500
NBD	HRP	Day 8-14	Increase	GBP	462	420	550	500
NBD	Non-HRP	Day 15+	Increase	GBP	420	420	500	500
NBD	HRP	Day 15+	Increase	GBP	462	420	550	500

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
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Outright Rates

UK NBP NAT GAS CAL MTH FUT (UKG)

UKG	Non-HRP	Mnth 1	Increase	GBP	15,000	15,000	18,000	18,000
UKG	HRP	Mnth 1	Increase	GBP	16,500	15,000	19,800	18,000
UKG	Non-HRP	Mnth 2-3	Increase	GBP	15,000	15,000	18,000	18,000
UKG	HRP	Mnth 2-3	Increase	GBP	16,500	15,000	19,800	18,000
UKG	Non-HRP	Mnth 4	Increase	GBP	8,000	8,000	9,000	9,000
UKG	HRP	Mnth 4	Increase	GBP	8,800	8,000	9,900	9,000
UKG	Non-HRP	Mnths 5-9	Increase	GBP	5,500	5,500	7,000	7,000
UKG	HRP	Mnths 5-9	Increase	GBP	6,050	5,500	7,700	7,000
UKG	Non-HRP	Mnths 10+	Increase	GBP	4,000	4,000	5,500	5,500
UKG	HRP	Mnths 10+	Increase	GBP	4,400	4,000	6,050	5,500

UK NBP NATURAL GAS FRONT MTH FUT (NBP)

NBP	Non-HRP	Mnth 1	Increase	USD	64,000	64,000	76,000	76,000
NBP	HRP	Mnth 1	Increase	USD	70,400	64,000	83,600	76,000
NBP	Non-HRP	Mnths 2-3	Increase	USD	64,000	64,000	76,000	76,000
NBP	HRP	Mnths 2-3	Increase	USD	70,400	64,000	83,600	76,000
NBP	Non-HRP	Mnths 4	Increase	USD	34,000	34,000	38,500	38,500
NBP	HRP	Mnths 4	Increase	USD	37,400	34,000	42,350	38,500
NBP	Non-HRP	Mnths 5+	Increase	USD	23,000	23,000	29,000	29,000
NBP	HRP	Mnths 5+	Increase	USD	25,300	23,000	31,900	29,000

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
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Intra Spreads

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
Intra Spreads								
EQUITY INDEX - Intra Spreads								
Bitcoin Month 1 vs Month 2 (BITCOIN FUTURES)								
BTC	Non-HRP		Increase	USD	6,750	6,750	8,750	8,750
BTC	HRP		Increase	USD	7,425	6,750	9,625	8,750
Bitcoin Month 1 vs Month 2 (BTIC ON BITCOIN FUTURES MARKER)								
BTM	Non-HRP		Increase	USD	6,750	6,750	8,750	8,750
BTM	HRP		Increase	USD	7,425	6,750	9,625	8,750
Bitcoin Month 1 vs Month 2 (BTIC ON BITCOIN FUTURES)								
BTB	Non-HRP		Increase	USD	6,750	6,750	8,750	8,750
BTB	HRP		Increase	USD	7,425	6,750	9,625	8,750
Bitcoin Month 1 vs Month 2 (BTIC ON MICRO BITCOIN FUTURES MARKE)								
MIM	Non-HRP		Increase	USD	6,750	6,750	8,750	8,750
MIM	HRP		Increase	USD	7,425	6,750	9,625	8,750
Bitcoin Month 1 vs Month 2 (BTIC ON MICRO BITCOIN FUTURES)								
MIB	Non-HRP		Increase	USD	6,750	6,750	8,750	8,750
MIB	HRP		Increase	USD	7,425	6,750	9,625	8,750
Bitcoin Month 1 vs Month 2 (MICRO BITCOIN FUTURES)								
MBT	Non-HRP		Increase	USD	135	135	175	175
MBT	HRP		Increase	USD	149	135	193	175
Bitcoin Month 1 vs Month 3 (BITCOIN FUTURES)								
BTC	Non-HRP		Increase	USD	7,000	7,000	9,000	9,000
BTC	HRP		Increase	USD	7,700	7,000	9,900	9,000
Bitcoin Month 1 vs Month 3 (BTIC ON BITCOIN FUTURES MARKER)								
BTM	Non-HRP		Increase	USD	7,000	7,000	9,000	9,000
BTM	HRP		Increase	USD	7,700	7,000	9,900	9,000
Bitcoin Month 1 vs Month 3 (BTIC ON BITCOIN FUTURES)								
BTB	Non-HRP		Increase	USD	7,000	7,000	9,000	9,000
BTB	HRP		Increase	USD	7,700	7,000	9,900	9,000
Bitcoin Month 1 vs Month 3 (BTIC ON MICRO BITCOIN FUTURES MARKE)								
MIM	Non-HRP		Increase	USD	7,000	7,000	9,000	9,000
MIM	HRP		Increase	USD	7,700	7,000	9,900	9,000
Bitcoin Month 1 vs Month 3 (BTIC ON MICRO BITCOIN FUTURES)								
MIB	Non-HRP		Increase	USD	7,000	7,000	9,000	9,000
MIB	HRP		Increase	USD	7,700	7,000	9,900	9,000

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
Intra Spreads								
Bitcoin Month 1 vs Month 3 (MICRO BITCOIN FUTURES)								
MBT	Non-HRP		Increase	USD	140	140	180	180
MBT	HRP		Increase	USD	154	140	198	180
Bitcoin Month 1 vs Month 4 (BITCOIN FUTURES)								
BTC	Non-HRP		Increase	USD	7,500	7,500	9,500	9,500
BTC	HRP		Increase	USD	8,250	7,500	10,450	9,500
Bitcoin Month 1 vs Month 4 (BTIC ON BITCOIN FUTURES MARKER)								
BTM	Non-HRP		Increase	USD	7,500	7,500	9,500	9,500
BTM	HRP		Increase	USD	8,250	7,500	10,450	9,500
Bitcoin Month 1 vs Month 4 (BTIC ON BITCOIN FUTURES)								
BTB	Non-HRP		Increase	USD	7,500	7,500	9,500	9,500
BTB	HRP		Increase	USD	8,250	7,500	10,450	9,500
Bitcoin Month 1 vs Month 4 (BTIC ON MICRO BITCOIN FUTURES MARKE)								
MIM	Non-HRP		Increase	USD	7,500	7,500	9,500	9,500
MIM	HRP		Increase	USD	8,250	7,500	10,450	9,500
Bitcoin Month 1 vs Month 4 (BTIC ON MICRO BITCOIN FUTURES)								
MIB	Non-HRP		Increase	USD	7,500	7,500	9,500	9,500
MIB	HRP		Increase	USD	8,250	7,500	10,450	9,500
Bitcoin Month 1 vs Month 4 (MICRO BITCOIN FUTURES)								
MBT	Non-HRP		Increase	USD	150	150	190	190
MBT	HRP		Increase	USD	165	150	209	190
Bitcoin Month 1 vs Month 5 (BITCOIN FUTURES)								
BTC	Non-HRP		Increase	USD	7,500	7,500	9,500	9,500
BTC	HRP		Increase	USD	8,250	7,500	10,450	9,500
Bitcoin Month 1 vs Month 5 (BTIC ON BITCOIN FUTURES MARKER)								
BTM	Non-HRP		Increase	USD	7,500	7,500	9,500	9,500
BTM	HRP		Increase	USD	8,250	7,500	10,450	9,500
Bitcoin Month 1 vs Month 5 (BTIC ON BITCOIN FUTURES)								
BTB	Non-HRP		Increase	USD	7,500	7,500	9,500	9,500
BTB	HRP		Increase	USD	8,250	7,500	10,450	9,500
Bitcoin Month 1 vs Month 5 (BTIC ON MICRO BITCOIN FUTURES MARKE)								
MIM	Non-HRP		Increase	USD	7,500	7,500	9,500	9,500
MIM	HRP		Increase	USD	8,250	7,500	10,450	9,500

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
Intra Spreads								
Bitcoin Month 1 vs Month 5 (BTIC ON MICRO BITCOIN FUTURES)								
MIB	Non-HRP		Increase	USD	7,500	7,500	9,500	9,500
MIB	HRP		Increase	USD	8,250	7,500	10,450	9,500
Bitcoin Month 1 vs Month 5 (MICRO BITCOIN FUTURES)								
MBT	Non-HRP		Increase	USD	150	150	190	190
MBT	HRP		Increase	USD	165	150	209	190
Bitcoin Month 1 vs Month 6 (BITCOIN FUTURES)								
BTC	Non-HRP		Increase	USD	8,000	8,000	10,000	10,000
BTC	HRP		Increase	USD	8,800	8,000	11,000	10,000
Bitcoin Month 1 vs Month 6 (BTIC ON BITCOIN FUTURES MARKER)								
BTM	Non-HRP		Increase	USD	8,000	8,000	10,000	10,000
BTM	HRP		Increase	USD	8,800	8,000	11,000	10,000
Bitcoin Month 1 vs Month 6 (BTIC ON BITCOIN FUTURES)								
BTB	Non-HRP		Increase	USD	8,000	8,000	10,000	10,000
BTB	HRP		Increase	USD	8,800	8,000	11,000	10,000
Bitcoin Month 1 vs Month 6 (BTIC ON MICRO BITCOIN FUTURES MARKE)								
MIM	Non-HRP		Increase	USD	8,000	8,000	10,000	10,000
MIM	HRP		Increase	USD	8,800	8,000	11,000	10,000
Bitcoin Month 1 vs Month 6 (BTIC ON MICRO BITCOIN FUTURES)								
MIB	Non-HRP		Increase	USD	8,000	8,000	10,000	10,000
MIB	HRP		Increase	USD	8,800	8,000	11,000	10,000
Bitcoin Month 1 vs Month 6 (MICRO BITCOIN FUTURES)								
MBT	Non-HRP		Increase	USD	160	160	200	200
MBT	HRP		Increase	USD	176	160	220	200
Bitcoin Month 1 vs Month 7 (BITCOIN FUTURES)								
BTC	Non-HRP		Increase	USD	8,000	8,000	10,000	10,000
BTC	HRP		Increase	USD	8,800	8,000	11,000	10,000
Bitcoin Month 1 vs Month 7 (BTIC ON BITCOIN FUTURES MARKER)								
BTM	Non-HRP		Increase	USD	8,000	8,000	10,000	10,000
BTM	HRP		Increase	USD	8,800	8,000	11,000	10,000
Bitcoin Month 1 vs Month 7 (BTIC ON BITCOIN FUTURES)								
BTB	Non-HRP		Increase	USD	8,000	8,000	10,000	10,000
BTB	HRP		Increase	USD	8,800	8,000	11,000	10,000

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
Intra Spreads								
Bitcoin Month 1 vs Month 7 (BTIC ON MICRO BITCOIN FUTURES MARKE)								
MIM	Non-HRP		Increase	USD	8,000	8,000	10,000	10,000
MIM	HRP		Increase	USD	8,800	8,000	11,000	10,000
Bitcoin Month 1 vs Month 7 (BTIC ON MICRO BITCOIN FUTURES)								
MIB	Non-HRP		Increase	USD	8,000	8,000	10,000	10,000
MIB	HRP		Increase	USD	8,800	8,000	11,000	10,000
Bitcoin Month 1 vs Month 7 (MICRO BITCOIN FUTURES)								
MBT	Non-HRP		Increase	USD	160	160	200	200
MBT	HRP		Increase	USD	176	160	220	200

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
COAL - Inter-commodity Spread Rates						
(NY-TTF - CME) vs (NY-MTF - CME)						
Spread Credit Rate	Decrease	+11:-1	70%	70%	60%	60%
CRUDE OIL - Inter-commodity Spread Rates						
(NY-CL-2 - CME) vs (UN-2 - CME)						
Spread Credit Rate	Decrease	+1:-3	40%	40%	0%	0%
BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME) vs E-MINI DOW JONES (YM - CME)						
Spread Credit Rate	Decrease	+2:-1	40%	40%	0%	0%
BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME) vs E-MINI RUSSELL 2000 INDEX FUTURES (RTY - CME)						
Spread Credit Rate	Decrease	+1:-1	40%	40%	0%	0%
BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME) vs E-MINI S&P MIDCAP 400 (ME - CME)						
Spread Credit Rate	Decrease	+2:-1	30%	30%	0%	0%
BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME) vs NORWEGIAN KRONE (UN - CME)						
Spread Credit Rate	Decrease	+3:-1	35%	35%	0%	0%
BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME) vs RUSSIAN RUBLE (RU - CME)						
Spread Credit Rate	Decrease	+1:-1	25%	25%	0%	0%
BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME) vs S&P 500 (SP - CME)						
Spread Credit Rate	Decrease	+10:-1	35%	35%	0%	0%
CRUDE OIL FINANCIAL FUTURES (NY-WS - CME) vs PLATINUM FUTURES (NY-PL - CME)						
Spread Credit Rate	Decrease	+1:-1	30%	30%	0%	0%
LIGHT SWEET CRUDE OIL FUTURES (NY-CL - CME) vs CANADIAN DOLLAR (CD - CME)						
Spread Credit Rate	Decrease	+1:-1	30%	30%	0%	0%
LIGHT SWEET CRUDE OIL FUTURES (NY-CL - CME) vs E-MINI DOW JONES (YM - CME)						
Spread Credit Rate	Decrease	+2:-1	35%	35%	0%	0%
LIGHT SWEET CRUDE OIL FUTURES (NY-CL - CME) vs E-MINI RUSSELL 2000 INDEX FUTURES (RTY - CME)						
Spread Credit Rate	Decrease	+1:-1	35%	35%	0%	0%
LIGHT SWEET CRUDE OIL FUTURES (NY-CL - CME) vs E-MINI S&P MIDCAP 400 (ME - CME)						
Spread Credit Rate	Decrease	+2:-1	30%	30%	0%	0%
LIGHT SWEET CRUDE OIL FUTURES (NY-CL - CME) vs NORWEGIAN KRONE (UN - CME)						
Spread Credit Rate	Decrease	+3:-1	40%	40%	0%	0%
LIGHT SWEET CRUDE OIL FUTURES (NY-CL - CME) vs PLATINUM FUTURES (NY-PL - CME)						
Spread Credit Rate	Decrease	+1:-1	30%	30%	0%	0%
LIGHT SWEET CRUDE OIL FUTURES (NY-CL - CME) vs RUSSIAN RUBLE (RU - CME)						

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
Spread Credit Rate	Decrease	+1:-1	25%	25%	0%	0%
LIGHT SWEET CRUDE OIL FUTURES (NY-CL - CME) vs S&P 500 TOTAL RETURN INDEX FUTURES (TRF - CME)						
Spread Credit Rate	Decrease	+2:-1	35%	35%	0%	0%
S&P 500 TOTAL RETURN INDEX FUTURES (TRF - CME) vs BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME)						
Spread Credit Rate	Decrease	+2:-1	35%	35%	0%	0%
DME Products - Inter-commodity Spread Rates						
DME OMAN CRUDE OIL CALENDAR FUTURES (NY-ODO - CME) vs PLATINUM FUTURES (NY-PL - CME)						
Spread Credit Rate	Decrease	+1:-1	30%	30%	0%	0%
ELECTRICITY - Inter-commodity Spread Rates						
(NY-TTF - CME) vs (NY-DEB - CME)						
Spread Credit Rate	Decrease	+1:-1	75%	75%	60%	60%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
EQUITY INDEX - Inter-commodity Spread Rates						
ADJUSTED INTEREST RATE RUSSELL 2000 TOTAL RETURN FUTURES (A2R - CME) vs E-MINI RUSSELL 2000 INDEX FUTURES (RTY - CME)						
Spread Credit Rate	Increase	+1:-1	90%	90%	95%	95%
ADJUSTED INTEREST RATE S&P 500 TOTAL RETURN INDEX FUTURE (ASR - CME) vs E-MINI RUSSELL 1000 GROWTH INDEX FUTURES (RSG - CME)						
Spread Credit Rate	Increase	+1:-2	75%	75%	80%	80%
ADJUSTED INTEREST RATE S&P 500 TOTAL RETURN INDEX FUTURE (ASR - CME) vs S&P SELECT SECTOR - ENERGY (XAE - CME)						
Spread Credit Rate	Increase	+2:-1	50%	50%	65%	65%
ADJUSTED INTEREST RATE S&P 500 TOTAL RETURN INDEX FUTURE (ASR - CME) vs S&P SELECT SECTOR - FINANCIAL (XAF - CME)						
Spread Credit Rate	Increase	+1:-2	65%	65%	75%	75%
ADJUSTED INTEREST RATE S&P 500 TOTAL RETURN INDEX FUTURE (ASR - CME) vs S&P SELECT SECTOR - INDUSTRIAL (XAI - CME)						
Spread Credit Rate	Increase	+1:-2	70%	70%	80%	80%
ADJUSTED INTEREST RATE S&P 500 TOTAL RETURN INDEX FUTURE (ASR - CME) vs S&P SELECT SECTOR - MATERIALS (XAB - CME)						
Spread Credit Rate	Increase	+1:-2	60%	60%	80%	80%
ADJUSTED INTEREST RATE S&P 500 TOTAL RETURN INDEX FUTURE (ASR - CME) vs S&P SELECT SECTOR - UTILITIES (XAU - CME)						
Spread Credit Rate	Increase	+2:-1	35%	35%	75%	75%
BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME) vs E-MINI DOW JONES (YM - CME)						
Spread Credit Rate	Decrease	+2:-1	40%	40%	0%	0%
BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME) vs E-MINI RUSSELL 2000 INDEX FUTURES (RTY - CME)						
Spread Credit Rate	Decrease	+1:-1	40%	40%	0%	0%
BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME) vs E-MINI S&P MIDCAP 400 (ME - CME)						
Spread Credit Rate	Decrease	+2:-1	30%	30%	0%	0%
BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME) vs S&P 500 (SP - CME)						
Spread Credit Rate	Decrease	+10:-1	35%	35%	0%	0%
E-MINI NASDAQ-100 FUTURES (NQ - CME) vs E-MINI DOW (\$5) FUTURES (YM - CME)						
Spread Credit Rate	Increase	+1:-1	55%	55%	60%	60%
E-MINI REAL ESTATE SELECT SECTOR FUTURES (XAR - CME) vs E-MINI NASDAQ-100 FUTURES (NQ - CME)						
Spread Credit Rate	Increase	+1:-1	20%	20%	45%	45%
E-MINI RUSSELL 1000 GROWTH INDEX FUTURES (RSG - CME) vs S&P 500 (SP - CME)						
Spread Credit Rate	Increase	+10:-1	75%	75%	80%	80%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
E-MINI RUSSELL 1000 INDEX FUTURES (RS1 - CME) vs S&P 500 (SP - CME)						
Spread Credit Rate	Increase	+10:-1	80%	80%	90%	90%
E-MINI RUSSELL 1000 VALUE INDEX FUTURES (RSV - CME) vs S&P 500 (SP - CME)						
Spread Credit Rate	Increase	+10:-1	75%	75%	85%	85%
E-MINI RUSSELL 2000 INDEX FUTURES (RTY - CME) vs E-MINI RUSSELL 2000 GROWTH INDEX FUTURES (R2G - CME)						
Spread Credit Rate	Increase	+2:-5	45%	45%	75%	75%
E-MINI RUSSELL 2000 INDEX FUTURES (RTY - CME) vs E-MINI RUSSELL 2000 VALUE INDEX FUTURES (R2V - CME)						
Spread Credit Rate	Increase	+2:-3	70%	70%	80%	80%
E-mini S&P 500 Futures vs USD-Denominated Ibovespa Futures						
Spread Credit Rate	Increase	+5:-1	40%	40%	70%	70%
EMINI SP 500 ENERGY SECTOR INDEX (XAE) vs S&P 500 FUTURES (SP)						
Spread Credit Rate	Increase	+10:-1	55%	55%	65%	65%
EMINI SP500 - FINANCIAL SECT INDEX (XAF) vs S&P 500 FUTURES (SP)						
Spread Credit Rate	Increase	+10:-1	65%	65%	75%	75%
EMINI SP500 MATERIALS SECTOR INDEX (XAB) vs S&P 500 FUTURES (SP)						
Spread Credit Rate	Increase	+10:-1	70%	70%	80%	80%
EMINI SP500-INDUSTRIAL SECTOR INDEX (XAI) vs S&P 500 FUTURES (SP)						
Spread Credit Rate	Increase	+10:-1	70%	70%	80%	80%
EMINI SP500-TECHNOLOGY SECTOR INDEX (XAK) vs S&P 500 FUTURES (SP)						
Spread Credit Rate	Increase	+15:-1	60%	60%	70%	70%
EMINI SP500-UTILITIES SECTOR INDEX (XAU) vs S&P 500 FUTURES (SP)						
Spread Credit Rate	Increase	+10:-1	65%	65%	75%	75%
LIGHT SWEET CRUDE OIL FUTURES (NY-CL - CME) vs E-MINI DOW JONES (YM - CME)						
Spread Credit Rate	Decrease	+2:-1	35%	35%	0%	0%
LIGHT SWEET CRUDE OIL FUTURES (NY-CL - CME) vs E-MINI RUSSELL 2000 INDEX FUTURES (RTY - CME)						
Spread Credit Rate	Decrease	+1:-1	35%	35%	0%	0%
LIGHT SWEET CRUDE OIL FUTURES (NY-CL - CME) vs E-MINI S&P MIDCAP 400 (ME - CME)						
Spread Credit Rate	Decrease	+2:-1	30%	30%	0%	0%
LIGHT SWEET CRUDE OIL FUTURES (NY-CL - CME) vs S&P 500 TOTAL RETURN INDEX FUTURES (TRF - CME)						
Spread Credit Rate	Decrease	+2:-1	35%	35%	0%	0%
NEW YORK HARBOR NO. 2 HEATING OIL FUTURES (NY-HO - CME) vs E-MINI DOW JONES (YM - CME)						
Spread Credit Rate	Decrease	+2:-1	35%	35%	0%	0%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
NEW YORK HARBOR NO. 2 HEATING OIL FUTURES (NY-HO - CME) vs E-MINI RUSSELL 2000 INDEX FUTURES (RTY - CME)						
Spread Credit Rate	Decrease	+1:-1	40%	40%	0%	0%
NEW YORK HARBOR NO. 2 HEATING OIL FUTURES (NY-HO - CME) vs E-MINI S&P MIDCAP 400 (ME - CME)						
Spread Credit Rate	Decrease	+2:-1	35%	35%	0%	0%
NEW YORK HARBOR NO. 2 HEATING OIL FUTURES (NY-HO - CME) vs S&P 500 TOTAL RETURN INDEX FUTURES (TRF - CME)						
Spread Credit Rate	Decrease	-2:+1	40%	40%	0%	0%
RBOB GASOLINE FUTURES (NY-RB - CME) vs E-MINI RUSSELL 2000 INDEX FUTURES (RTY - CME)						
Spread Credit Rate	Decrease	-1:+1	35%	35%	0%	0%
RBOB GASOLINE FUTURES (NY-RB - CME) vs E-MINI S&P MIDCAP 400 (ME - CME)						
Spread Credit Rate	Decrease	+2:-1	35%	35%	0%	0%
RBOB GASOLINE FUTURES (NY-RB - CME) vs S&P 500 TOTAL RETURN INDEX FUTURES (TRF - CME)						
Spread Credit Rate	Decrease	-2:+1	40%	40%	0%	0%
S&P 500 TOTAL RETURN INDEX FUTURES (TRF - CME) vs BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME)						
Spread Credit Rate	Decrease	+2:-1	35%	35%	0%	0%
S&P 500 TOTAL RETURN INDEX FUTURES (TRF - CME) vs E-MINI RUSSELL 1000 GROWTH INDEX FUTURES (RSG - CME)						
Spread Credit Rate	Increase	+1:-2	75%	75%	80%	80%
S&P 500 TOTAL RETURN INDEX FUTURES (TRF - CME) vs S&P SELECT SECTOR - ENERGY (XAE - CME)						
Spread Credit Rate	Increase	+2:-1	60%	60%	65%	65%
S&P 500 TOTAL RETURN INDEX FUTURES (TRF - CME) vs S&P SELECT SECTOR - FINANCIAL (XAF - CME)						
Spread Credit Rate	Increase	+1:-2	65%	65%	75%	75%
S&P 500 TOTAL RETURN INDEX FUTURES (TRF - CME) vs S&P SELECT SECTOR - INDUSTRIAL (XAI - CME)						
Spread Credit Rate	Increase	+1:-2	70%	70%	80%	80%
S&P 500 TOTAL RETURN INDEX FUTURES (TRF - CME) vs S&P SELECT SECTOR - MATERIALS (XAB - CME)						
Spread Credit Rate	Increase	+1:-2	70%	70%	80%	80%
S&P 500 TOTAL RETURN INDEX FUTURES (TRF - CME) vs S&P SELECT SECTOR - UTILITIES (XAU - CME)						
Spread Credit Rate	Increase	+2:-1	60%	60%	75%	75%
S&P SELECT SECTOR - UTILITIES (XAU - CME) vs E-MINI DOW (\$5) FUTURES (YM - CME)						
Spread Credit Rate	Increase	+3:-2	50%	50%	75%	75%
SP Total Return Index (TRF) vs. ES(SP)						
Spread Credit Rate	Increase	+1:-5	85%	85%	95%	95%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						

FX - Inter-commodity Spread Rates

(NY-CL-2 - CME) vs (UN-2 - CME)

Spread Credit Rate	Decrease	+1:-3	40%	40%	0%	0%
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BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME) vs NORWEGIAN KRONE (UN - CME)

Spread Credit Rate	Decrease	+3:-1	35%	35%	0%	0%
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BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME) vs RUSSIAN RUBLE (RU - CME)

Spread Credit Rate	Decrease	+1:-1	25%	25%	0%	0%
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LIGHT SWEET CRUDE OIL FUTURES (NY-CL - CME) vs CANADIAN DOLLAR (CD - CME)

Spread Credit Rate	Decrease	+1:-1	30%	30%	0%	0%
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LIGHT SWEET CRUDE OIL FUTURES (NY-CL - CME) vs NORWEGIAN KRONE (UN - CME)

Spread Credit Rate	Decrease	+3:-1	40%	40%	0%	0%
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LIGHT SWEET CRUDE OIL FUTURES (NY-CL - CME) vs RUSSIAN RUBLE (RU - CME)

Spread Credit Rate	Decrease	+1:-1	25%	25%	0%	0%
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NEW YORK HARBOR NO. 2 HEATING OIL FUTURES (NY-HO - CME) vs NORWEGIAN KRONE (UN - CME)

Spread Credit Rate	Decrease	-3:+1	20%	20%	0%	0%
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METALS - Inter-commodity Spread Rates

CRUDE OIL FINANCIAL FUTURES (NY-WS - CME) vs PLATINUM FUTURES (NY-PL - CME)

Spread Credit Rate	Decrease	+1:-1	30%	30%	0%	0%
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DME OMAN CRUDE OIL CALENDAR FUTURES (NY-ODO - CME) vs PLATINUM FUTURES (NY-PL - CME)

Spread Credit Rate	Decrease	+1:-1	30%	30%	0%	0%
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LIGHT SWEET CRUDE OIL FUTURES (NY-CL - CME) vs PLATINUM FUTURES (NY-PL - CME)

Spread Credit Rate	Decrease	+1:-1	30%	30%	0%	0%
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Splitting Methodology						
CC	Contract Name	Leg 1	Leg 2	Current Modsplit	New Modsplit	
UJ	European Jet Kerosene Cargoes CIF NWE (Platts) Futures	SUJ		None	Modsplit	
JC	Jet Cargoes CIF NWE (Platts) vs. Low Sulphur Gasoil Futures	SUJ	SBG	None	Modsplit	
MJC	Mini European Jet Kero Cargoes CIF NWE (Platts) vs. Low Sulphur Gasoil Futures	SUJ	SBG	None	Modsplit	
VO	Singapore Mogas 95 Unleaded (Platts) Futures	SVO		None	Modsplit	
SMU	Singapore Mogas 95 Unleaded (Platts) vs. Singapore Mogas 92 Unleaded (Platts) Futures	SVO	S1N	None	Modsplit	
LY	Gulf Coast ULSD (Platts) Futures	SLY		None	Modsplit	
WO	Singapore Mogas 95 Unleaded (Platts) BALMO Futures	SVO		None	Modsplit	

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
NATURAL GAS - Inter-commodity Spread Rates						
(NY-TTF - CME) vs (NY-DEB - CME)						
Spread Credit Rate	Decrease	+1:-1	75%	75%	60%	60%
(NY-TTF - CME) vs (NY-MTF - CME)						
Spread Credit Rate	Decrease	+11:-1	70%	70%	60%	60%
HENRY HUB NATURAL GAS PENULTIMATE FINANCIAL FUTURES (NY-HP - CME) vs ARGUS PROPANE FAR EAST INDEX SWAP FUTURES (NY-7E - CME)						
Spread Credit Rate	Decrease	+1:-1	25%	25%	0%	0%
HENRY HUB NATURAL GAS PENULTIMATE FINANCIAL FUTURES (NY-HP - CME) vs EUROPEAN PROPANE CIF ARA (ARGUS) SWAP FUTURES (NY-PS - CME)						
Spread Credit Rate	Decrease	+1:-1	25%	25%	0%	0%
HENRY HUB NATURAL GAS PENULTIMATE FINANCIAL FUTURES (NY-HP - CME) vs GULF COAST NO. 6 FUEL OIL 3.0% (PLATTS) SWAP FUTURES (NY-MF - CME)						
Spread Credit Rate	Decrease	+1:-1	35%	35%	0%	0%
HENRY HUB NATURAL GAS PENULTIMATE FINANCIAL FUTURES (NY-HP - CME) vs MONT BELVIEU ISO-BUTANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-8I - CME)						
Spread Credit Rate	Decrease	+1:-1	25%	25%	0%	0%
HENRY HUB NATURAL GAS PENULTIMATE FINANCIAL FUTURES (NY-HP - CME) vs MONT BELVIEU NATURAL GASOLINE 5 DECIMALS (OPIS) SWAP FUTURES (NY-7Q - CME)						
Spread Credit Rate	Decrease	+1:-1	25%	25%	0%	0%
HENRY HUB NATURAL GAS PENULTIMATE FINANCIAL FUTURES (NY-HP - CME) vs PGP POLYMER GRADE PROPYLENE (PCW) CALENDAR SWAP FUTURES (NY-PGP - CME)						
Spread Credit Rate	Decrease	+1:-1	35%	35%	0%	0%
MONT BELVIEU NORMAL BUTANE LDH (OPIS) SWAP FUTURES (NY-MNB - CME) vs HENRY HUB NATURAL GAS PENULTIMATE FINANCIAL FUTURES (NY-HP - CME)						
Spread Credit Rate	Decrease	+1:-1	25%	25%	0%	0%
NYMEX NATURAL GAS (H.HUB LTD) FUT (NY-HH - CME) vs ARGUS PROPANE FAR EAST INDEX SWAP FUTURES (NY-7E - CME)						
Spread Credit Rate	Decrease	+1:-1	25%	25%	0%	0%
NYMEX NATURAL GAS (H.HUB LTD) FUT (NY-HH - CME) vs EUROPEAN PROPANE CIF ARA (ARGUS) SWAP FUTURES (NY-PS - CME)						
Spread Credit Rate	Decrease	+1:-1	25%	25%	0%	0%
NYMEX NATURAL GAS (H.HUB LTD) FUT (NY-HH - CME) vs GULF COAST NO. 6 FUEL OIL 3.0% (PLATTS) SWAP FUTURES (NY-MF - CME)						
Spread Credit Rate	Decrease	+1:-1	35%	35%	0%	0%
NYMEX NATURAL GAS (H.HUB LTD) FUT (NY-HH - CME) vs MONT BELVIEU ISO-BUTANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-8I - CME)						
Spread Credit Rate	Decrease	+1:-1	25%	25%	0%	0%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
NYMEX NATURAL GAS (H.HUB LTD) FUT (NY-HH - CME) vs MONT BELVIEU NATURAL GASOLINE 5 DECIMALS (OPIS) SWAP FUTURES (NY-7Q - CME)						
Spread Credit Rate	Decrease	+1:-1	25%	25%	0%	0%
NYMEX NATURAL GAS (H.HUB LTD) FUT (NY-HH - CME) vs MONT BELVIEU NORMAL BUTANE LDH (OPIS) SWAP FUTURES (NY-MNB - CME)						
Spread Credit Rate	Decrease	+1:-1	25%	25%	0%	0%
NYMEX NATURAL GAS (H.HUB LTD) FUT (NY-HH - CME) vs PGP POLYMER GRADE PROPYLENE (PCW) CALENDAR SWAP FUTURES (NY-PGP - CME)						
Spread Credit Rate	Decrease	+1:-1	35%	35%	0%	0%
TTF Mnth 1 vs. NG Mnth 1						
Spread Credit Rate	Decrease	+4:-1	45%	45%	40%	40%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
NGL/PETROCHEMICALS - Inter-commodity Spread Rates						
HENRY HUB NATURAL GAS PENULTIMATE FINANCIAL FUTURES (NY-HP - CME) vs ARGUS PROPANE FAR EAST INDEX SWAP FUTURES (NY-7E - CME)						
Spread Credit Rate	Decrease	+1:-1	25%	25%	0%	0%
HENRY HUB NATURAL GAS PENULTIMATE FINANCIAL FUTURES (NY-HP - CME) vs EUROPEAN PROPANE CIF ARA (ARGUS) SWAP FUTURES (NY-PS - CME)						
Spread Credit Rate	Decrease	+1:-1	25%	25%	0%	0%
HENRY HUB NATURAL GAS PENULTIMATE FINANCIAL FUTURES (NY-HP - CME) vs MONT BELVIEU ISO-BUTANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-8I - CME)						
Spread Credit Rate	Decrease	+1:-1	25%	25%	0%	0%
HENRY HUB NATURAL GAS PENULTIMATE FINANCIAL FUTURES (NY-HP - CME) vs MONT BELVIEU NATURAL GASOLINE 5 DECIMALS (OPIS) SWAP FUTURES (NY-7Q - CME)						
Spread Credit Rate	Decrease	+1:-1	25%	25%	0%	0%
HENRY HUB NATURAL GAS PENULTIMATE FINANCIAL FUTURES (NY-HP - CME) vs PGP POLYMER GRADE PROPYLENE (PCW) CALENDAR SWAP FUTURES (NY-PGP - CME)						
Spread Credit Rate	Decrease	+1:-1	35%	35%	0%	0%
MONT BELVIEU NORMAL BUTANE LDH (OPIS) SWAP FUTURES (NY-MNB - CME) vs HENRY HUB NATURAL GAS PENULTIMATE FINANCIAL FUTURES (NY-HP - CME)						
Spread Credit Rate	Decrease	+1:-1	25%	25%	0%	0%
NYMEX NATURAL GAS (H.HUB LTD) FUT (NY-HH - CME) vs ARGUS PROPANE FAR EAST INDEX SWAP FUTURES (NY-7E - CME)						
Spread Credit Rate	Decrease	+1:-1	25%	25%	0%	0%
NYMEX NATURAL GAS (H.HUB LTD) FUT (NY-HH - CME) vs EUROPEAN PROPANE CIF ARA (ARGUS) SWAP FUTURES (NY-PS - CME)						
Spread Credit Rate	Decrease	+1:-1	25%	25%	0%	0%
NYMEX NATURAL GAS (H.HUB LTD) FUT (NY-HH - CME) vs MONT BELVIEU ISO-BUTANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-8I - CME)						
Spread Credit Rate	Decrease	+1:-1	25%	25%	0%	0%
NYMEX NATURAL GAS (H.HUB LTD) FUT (NY-HH - CME) vs MONT BELVIEU NATURAL GASOLINE 5 DECIMALS (OPIS) SWAP FUTURES (NY-7Q - CME)						
Spread Credit Rate	Decrease	+1:-1	25%	25%	0%	0%
NYMEX NATURAL GAS (H.HUB LTD) FUT (NY-HH - CME) vs MONT BELVIEU NORMAL BUTANE LDH (OPIS) SWAP FUTURES (NY-MNB - CME)						
Spread Credit Rate	Decrease	+1:-1	25%	25%	0%	0%
NYMEX NATURAL GAS (H.HUB LTD) FUT (NY-HH - CME) vs PGP POLYMER GRADE PROPYLENE (PCW) CALENDAR SWAP FUTURES (NY-PGP - CME)						
Spread Credit Rate	Decrease	+1:-1	35%	35%	0%	0%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
REFINED PRODUCTS - Inter-commodity Spread Rates						
HENRY HUB NATURAL GAS PENULTIMATE FINANCIAL FUTURES (NY-HP - CME) vs GULF COAST NO. 6 FUEL OIL 3.0% (PLATTS) SWAP FUTURES (NY-MF - CME)						
Spread Credit Rate	Decrease	+1:-1	35%	35%	0%	0%
NEW YORK HARBOR NO. 2 HEATING OIL FUTURES (NY-HO - CME) vs E-MINI DOW JONES (YM - CME)						
Spread Credit Rate	Decrease	+2:-1	35%	35%	0%	0%
NEW YORK HARBOR NO. 2 HEATING OIL FUTURES (NY-HO - CME) vs E-MINI RUSSELL 2000 INDEX FUTURES (RTY - CME)						
Spread Credit Rate	Decrease	+1:-1	40%	40%	0%	0%
NEW YORK HARBOR NO. 2 HEATING OIL FUTURES (NY-HO - CME) vs E-MINI S&P MIDCAP 400 (ME - CME)						
Spread Credit Rate	Decrease	+2:-1	35%	35%	0%	0%
NEW YORK HARBOR NO. 2 HEATING OIL FUTURES (NY-HO - CME) vs NORWEGIAN KRONE (UN - CME)						
Spread Credit Rate	Decrease	-3:+1	20%	20%	0%	0%
NEW YORK HARBOR NO. 2 HEATING OIL FUTURES (NY-HO - CME) vs S&P 500 TOTAL RETURN INDEX FUTURES (TRF - CME)						
Spread Credit Rate	Decrease	-2:+1	40%	40%	0%	0%
NYMEX NATURAL GAS (H.HUB LTD) FUT (NY-HH - CME) vs GULF COAST NO. 6 FUEL OIL 3.0% (PLATTS) SWAP FUTURES (NY-MF - CME)						
Spread Credit Rate	Decrease	+1:-1	35%	35%	0%	0%
RBOB GASOLINE FUTURES (NY-RB - CME) vs E-MINI RUSSELL 2000 INDEX FUTURES (RTY - CME)						
Spread Credit Rate	Decrease	-1:+1	35%	35%	0%	0%
RBOB GASOLINE FUTURES (NY-RB - CME) vs E-MINI S&P MIDCAP 400 (ME - CME)						
Spread Credit Rate	Decrease	+2:-1	35%	35%	0%	0%
RBOB GASOLINE FUTURES (NY-RB - CME) vs S&P 500 TOTAL RETURN INDEX FUTURES (TRF - CME)						
Spread Credit Rate	Decrease	-2:+1	40%	40%	0%	0%