



CH Advisory 16-384

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

FROM: CME Clearing

SUBJECT: Performance Bond Requirements

DATE: Thursday, September 22, 2016

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.

The rates will be effective after the close of business on

Friday, September 23, 2016.

Current rates as of:

Thursday, September 22, 2016.

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.

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

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

AGRICULTURE - Outright Rates

EU WHEAT FUTURES (WEU)

WEU	Spec	Months 2-5	Increase	EUR	440	400	468	425
WEU	Hedge/Member	Months 2-5	Increase	EUR	400	400	425	425
WEU	Spec	Months 6+	Increase	EUR	358	325	402	365
WEU	Hedge/Member	Months 6+	Increase	EUR	325	325	365	365
WEU	Spec	Month 1	Increase	EUR	550	500	583	530
WEU	Hedge/Member	Month 1	Increase	EUR	500	500	530	530

COAL - Outright Rates

AUSTRALIAN COKING (PLATTS) LOW VOL (ALW)

ALW	Spec	Mnth 1	Increase	USD	11,880	10,800	13,068	11,880
ALW	Hedge/Member	Mnth 1	Increase	USD	10,800	10,800	11,880	11,880
ALW	Spec	Mnth 2	Increase	USD	11,880	10,800	13,068	11,880
ALW	Hedge/Member	Mnth 2	Increase	USD	10,800	10,800	11,880	11,880
ALW	Spec	Mnths 3-4	Increase	USD	11,352	10,320	12,485	11,350
ALW	Hedge/Member	Mnths 3-4	Increase	USD	10,320	10,320	11,350	11,350
ALW	Spec	Mnths 5-11	Increase	USD	11,220	10,200	12,485	11,350
ALW	Hedge/Member	Mnths 5-11	Increase	USD	10,200	10,200	11,350	11,350
ALW	Spec	Mnths 12+	Increase	USD	10,560	9,600	12,650	11,500
ALW	Hedge/Member	Mnths 12+	Increase	USD	9,600	9,600	11,500	11,500

COAL API5 FOB NEWCASTLE ARG/MC FUT (ACM)

ACM	Spec	Mths 2-12	Increase	USD	2,750	2,500	3,300	3,000
ACM	Hedge/Member	Mths 2-12	Increase	USD	2,500	2,500	3,000	3,000

EASTERN RAIL DELIVERY CSX COAL FUT (QX)

QX	Spec	Mths 1	Increase	USD	2,475	2,250	2,970	2,700
QX	Hedge/Member	Mths 1	Increase	USD	2,250	2,250	2,700	2,700
QX	Spec	Mths 2-3	Increase	USD	2,420	2,200	2,860	2,600
QX	Hedge/Member	Mths 2-3	Increase	USD	2,200	2,200	2,600	2,600
QX	Spec	Mths 4-6	Increase	USD	2,200	2,000	2,640	2,400
QX	Hedge/Member	Mths 4-6	Increase	USD	2,000	2,000	2,400	2,400
QX	Spec	Mnths 7-11	Increase	USD	2,145	1,950	2,585	2,350
QX	Hedge/Member	Mnths 7-11	Increase	USD	1,950	1,950	2,350	2,350
QX	Spec	Mnths 12+	Increase	USD	2,530	2,300	2,915	2,650
QX	Hedge/Member	Mnths 12+	Increase	USD	2,300	2,300	2,650	2,650

WESTERN RAIL DELIVERY PRB COAL FUT (QP)

QP	Spec	Mnth 2	Increase	USD	550	500	660	600
QP	Hedge/Member	Mnth 2	Increase	USD	500	500	600	600

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

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

QP	Spec	Mnths 3-6	Increase	USD	605	550	715	650
QP	Hedge/Member	Mnths 3-6	Increase	USD	550	550	650	650
QP	Spec	Mnth 7+	Increase	USD	660	600	770	700
QP	Hedge/Member	Mnth 7+	Increase	USD	600	600	700	700

METALS - Outright Rates

ALUMINA FOB METAL BULLETIN FUTURES (ALB)

ALB	Spec	Mths 1-4	New	USD			963	875
ALB	Hedge/Member	Mths 1-4	New	USD			875	875
ALB	Spec	Mths 5+	New	USD			963	875
ALB	Hedge/Member	Mths 5+	New	USD			875	875

ALUMINA FOB S&P GLOBAL PLATTS FUT (ALA)

ALA	Spec	Mths 1-4	New	USD			963	875
ALA	Hedge/Member	Mths 1-4	New	USD			875	875
ALA	Spec	Mths 5+	New	USD			963	875
ALA	Hedge/Member	Mths 5+	New	USD			875	875

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								
ALGON CITY GATES NAT GAS INDEX FUT (N7)								
N7	Spec	Mth 1	Decrease	USD	17,600	16,000	16,500	15,000
N7	Hedge/Member	Mth 1	Decrease	USD	16,000	16,000	15,000	15,000
ALGONQUIN CITYGATES BASIS (B4)								
B4	Spec	Mnth 2	Increase	USD	1,650	1,500	1,980	1,800
B4	Hedge/Member	Mnth 2	Increase	USD	1,500	1,500	1,800	1,800
ALGONQUIN CITY-GATES NAT SWING FUT (C8)								
C8	Spec		Decrease	USD	17,600	16,000	16,500	15,000
C8	Hedge/Member		Decrease	USD	16,000	16,000	15,000	15,000
COLUMBIA GULF MAIN NAT G INDEX FUT (L2)								
L2	Spec	Mth 1	Decrease	USD	1,650	1,500	1,100	1,000
L2	Hedge/Member	Mth 1	Decrease	USD	1,500	1,500	1,000	1,000
COLUMBIA GULF NAT GAS SWING FUT (X2)								
X2	Spec		Decrease	USD	1,650	1,500	1,100	1,000
X2	Hedge/Member		Decrease	USD	1,500	1,500	1,000	1,000
DOMINION TRAN INC - APP INDEX (IH)								
IH	Spec	Mth 1	Decrease	USD	1,870	1,700	1,320	1,200
IH	Hedge/Member	Mth 1	Decrease	USD	1,700	1,700	1,200	1,200
DOMINION-APPALACHIA SWING FUT (SH)								
SH	Spec		Decrease	USD	2,640	2,400	1,320	1,200
SH	Hedge/Member		Decrease	USD	2,400	2,400	1,200	1,200
FL GAS ZONE 3 NAT GAS INDEX FUT (Q9)								
Q9	Spec	Mth 1	Decrease	USD	1,650	1,500	1,100	1,000
Q9	Hedge/Member	Mth 1	Decrease	USD	1,500	1,500	1,000	1,000
FL GAS ZONE 3 NAT GASSWING FUT (J8)								
J8	Spec	All Months	Decrease	USD	1,650	1,500	1,100	1,000
J8	Hedge/Member	All Months	Decrease	USD	1,500	1,500	1,000	1,000
HENRY HUB INDEX FUT (IN)								
IN	Spec	Mnth 1	Decrease	USD	990	900	880	800
IN	Hedge/Member	Mnth 1	Decrease	USD	900	900	800	800
HENRY HUB SWING FUTURE (SN)								
SN	Spec	All Months	Decrease	USD	1,188	1,080	880	800
SN	Hedge/Member	All Months	Decrease	USD	1,080	1,080	800	800

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
Outright Rates								
MICHCON NG INDEX FUT (Y8)								
Y8	Spec	Mth 1	Decrease	USD	4,950	4,500	2,750	2,500
Y8	Hedge/Member	Mth 1	Decrease	USD	4,500	4,500	2,500	2,500
MICHCON NG SWING (T8)								
T8	Spec		Decrease	USD	4,950	4,500	2,750	2,500
T8	Hedge/Member		Decrease	USD	4,500	4,500	2,500	2,500
NGPL, MIDCONTINENT INDEX (IW)								
IW	Spec	Mth 1	Decrease	USD	2,200	2,000	1,925	1,750
IW	Hedge/Member	Mth 1	Decrease	USD	2,000	2,000	1,750	1,750
NGPL, MIDCONTINENT SWING FUT (PX)								
PX	Spec		Decrease	USD	2,200	2,000	1,925	1,750
PX	Hedge/Member		Decrease	USD	2,000	2,000	1,750	1,750
NGPL, TEXOK INDEX (OI)								
OI	Spec	Mnth 1	Decrease	USD	1,650	1,500	1,100	1,000
OI	Hedge/Member	Mnth 1	Decrease	USD	1,500	1,500	1,000	1,000
NORTHWEST PIPELINE BASIS FUT (NR)								
NR	Spec	Mnths 17+	Decrease	USD	220	200	176	160
NR	Hedge/Member	Mnths 17+	Decrease	USD	200	200	160	160
SOUTHERN NAT LA NAT GAS SWING FUT (K8)								
K8	Spec		Decrease	USD	1,650	1,500	1,100	1,000
K8	Hedge/Member		Decrease	USD	1,500	1,500	1,000	1,000
SOUTHERN NAT, LA NAT GAS INDEX FUT (M8)								
M8	Spec	Mth 1	Decrease	USD	1,650	1,500	1,100	1,000
M8	Hedge/Member	Mth 1	Decrease	USD	1,500	1,500	1,000	1,000
TCO BASIS FUT (TC)								
TC	Spec	Mnth 1	Decrease	USD	99	90	77	70
TC	Hedge/Member	Mnth 1	Decrease	USD	90	90	70	70
TC	Spec	Mnth 2-2	Decrease	USD	99	90	77	70
TC	Hedge/Member	Mnth 2-2	Decrease	USD	90	90	70	70
TC	Spec	Mnths 3-7	Decrease	USD	94	85	66	60
TC	Hedge/Member	Mnths 3-7	Decrease	USD	85	85	60	60
TC	Spec	Mnths 8-19	Decrease	USD	198	180	132	120
TC	Hedge/Member	Mnths 8-19	Decrease	USD	180	180	120	120
TC	Spec	Mnths 20+	Decrease	USD	231	210	198	180
TC	Hedge/Member	Mnths 20+	Decrease	USD	210	210	180	180

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
Outright Rates								
TCO NG SWING (A1)								
A1	Spec		Decrease	USD	1,650	1,500	1,100	1,000
A1	Hedge/Member		Decrease	USD	1,500	1,500	1,000	1,000
TETCO M-3 INDEX (IX)								
IX	Spec	Mnth 1	Decrease	USD	11,000	10,000	8,800	8,000
IX	Hedge/Member	Mnth 1	Decrease	USD	10,000	10,000	8,000	8,000
TEXAS EASTERN ZONE M-3 SWING FUT (SX)								
SX	Spec		Decrease	USD	21,120	19,200	8,800	8,000
SX	Hedge/Member		Decrease	USD	19,200	19,200	8,000	8,000
TRANSCO ZONE 6 GAS INDEX FUT (TZI)								
TZI	Spec	Mnths 1	Decrease	USD	11,000	10,000	8,800	8,000
TZI	Hedge/Member	Mnths 1	Decrease	USD	10,000	10,000	8,000	8,000
TRANSCO ZONE 6 INDEX (IT)								
IT	Spec	Mth 1	Decrease	USD	11,000	10,000	8,800	8,000
IT	Hedge/Member	Mth 1	Decrease	USD	10,000	10,000	8,000	8,000
TRANSCO ZONE 6 SWING FUT (ST)								
ST	Spec	All Months	Decrease	USD	11,000	10,000	8,800	8,000
ST	Hedge/Member	All Months	Decrease	USD	10,000	10,000	8,000	8,000
WAHA INDEX FUT (IY)								
IY	Spec	Mth 1	Decrease	USD	1,650	1,500	1,320	1,200
IY	Hedge/Member	Mth 1	Decrease	USD	1,500	1,500	1,200	1,200
WAHA SWING FUTURE (SY)								
SY	Spec	All Months	Decrease	USD	1,650	1,500	1,320	1,200
SY	Hedge/Member	All Months	Decrease	USD	1,500	1,500	1,200	1,200
NGL/PETROCHEMICALS - Outright Rates								
MT BELVIEU ETHYLENE IN-WELL(PCW) (MBE)								
MBE	Spec	Months 2+	Increase	USD	3,218	2,925	4,015	3,650
MBE	Hedge/Member	Months 2+	Increase	USD	2,925	2,925	3,650	3,650
MT. BELVIEU ETHYLENE(PCW) FIN FUT (MBN)								
MBN	Spec	Mnths 2+	Increase	USD	3,630	3,300	4,538	4,125
MBN	Hedge/Member	Mnths 2+	Increase	USD	3,300	3,300	4,125	4,125
PETROLEUM CRACKS AND SPREADS - Outright Rates								
NY ULSD VS. NY HRBR ULSD FUT (7Y)								
7Y	Spec	Mnth 1	Increase	USD	1,375	1,250	1,650	1,500
7Y	Hedge/Member	Mnth 1	Increase	USD	1,250	1,250	1,500	1,500

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

COAL - Intra Spreads

Australian Coking Coal (Platts) Low Vol Swap Futures [All Months] (AUSTRALIAN COKING (PLATTS) LOW VOL)

ALW	Spec		Increase	USD	13,613	12,375	15,653	14,230
ALW	Hedge/Member		Increase	USD	12,375	12,375	14,230	14,230

Eastern Rail CSX Coal Swap Futures - All Months (EASTERN RAIL DELIVERY CSX COAL FUT)

QX	Spec		Increase	USD	2,640	2,400	3,168	2,880
QX	Hedge/Member		Increase	USD	2,400	2,400	2,880	2,880

PRB Coal Swap - Mnths 1-2 vs Mnths 1-2 (WESTERN RAIL DELIVERY PRB COAL FUT)

QP	Spec		Increase	USD	550	500	605	550
QP	Hedge/Member		Increase	USD	500	500	550	550

PRB Coal Swap - Mnths 1-2 vs Mnths 3+ (WESTERN RAIL DELIVERY PRB COAL FUT)

QP	Spec		Increase	USD	688	625	754	685
QP	Hedge/Member		Increase	USD	625	625	685	685

PRB Coal Swap - Mnths 3+ vs Mnths 3+ (WESTERN RAIL DELIVERY PRB COAL FUT)

QP	Spec		Increase	USD	605	550	660	600
QP	Hedge/Member		Increase	USD	550	550	600	600

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								
(CONSUMER STAPLES SECTOR TIC)								
XPT	Spec		Increase	USD	253	230	286	260
XPT	Hedge/Member		Increase	USD	230	230	260	260
(EMINI SP 500 CONS STAPLES SECTOR IX)								
XAP	Spec		Increase	USD	253	230	286	260
XAP	Hedge/Member		Increase	USD	230	230	260	260
(EMINI SP 500 ENERGY SECTOR INDEX)								
XAE	Spec		Increase	USD	512	465	550	500
XAE	Hedge/Member		Increase	USD	465	465	500	500
(EMINI SP500- HEALTH CARE SECT INDEX)								
XAV	Spec		Increase	USD	605	550	660	600
XAV	Hedge/Member		Increase	USD	550	550	600	600
(EMINI SP500-INDUSTRIAL SECTOR INDEX)								
XAI	Spec		Increase	USD	396	360	440	400
XAI	Hedge/Member		Increase	USD	360	360	400	400
(EMINI SP500-UTILITIES SECTOR INDEX)								
XAU	Spec		Increase	USD	308	280	352	320
XAU	Hedge/Member		Increase	USD	280	280	320	320
(SP 500 - CONS STAPLES SYNTHETIC)								
1PT	Spec		Increase	USD	253	230	286	260
1PT	Hedge/Member		Increase	USD	230	230	260	260
(SP 500 - INDUSTRIAL SEL SECTOR SYNT)								
1IT	Spec		Increase	USD	396	360	440	400
1IT	Hedge/Member		Increase	USD	360	360	400	400
(SP 500 ENERGY SELECT SECTOR TIC)								
XET	Spec		Increase	USD	512	465	550	500
XET	Hedge/Member		Increase	USD	465	465	500	500
(SP 500 ENERGY SLCT SEC SYNTHETIC)								
1ET	Spec		Increase	USD	512	465	550	500
1ET	Hedge/Member		Increase	USD	465	465	500	500
(SP 500 HEALTH CARE SECTOR SYNTHETIC)								
1VT	Spec		Increase	USD	605	550	660	600
1VT	Hedge/Member		Increase	USD	550	550	600	600

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
Intra Spreads								
(SP 500 HEALTH CARE SECTOR TIC)								
XVT	Spec		Increase	USD	605	550	660	600
XVT	Hedge/Member		Increase	USD	550	550	600	600
(SP 500 INDUSTRIAL SECTOR TIC)								
XIT	Spec		Increase	USD	396	360	440	400
XIT	Hedge/Member		Increase	USD	360	360	400	400
(SP 500 UTILITIES SEL SECTOR SYNTH)								
1UT	Spec		Increase	USD	308	280	352	320
1UT	Hedge/Member		Increase	USD	280	280	320	320
(SP 500 UTILITIES SEL SECTOR TIC)								
XUT	Spec		Increase	USD	308	280	352	320
XUT	Hedge/Member		Increase	USD	280	280	320	320
All Months (BTIC EMINI FTSE CHINA 50 INDEX)								
FTC	Spec		Increase	USD	165	150	275	250
FTC	Hedge/Member		Increase	USD	150	150	250	250
All Months (EMINI FTSE CHINA 50 INDEX FUTURE)								
FT5	Spec		Increase	USD	165	150	275	250
FT5	Hedge/Member		Increase	USD	150	150	250	250
All Months (EMINI FTSE CHINA50 INDEX SYN MARKER)								
FTY	Spec		Increase	USD	165	150	275	250
FTY	Hedge/Member		Increase	USD	150	150	250	250
All Months (S&P 500 QUARLY DIVIDEND INDEX FUT)								
SDI	Spec		Increase	USD	66	60	110	100
SDI	Hedge/Member		Increase	USD	60	60	100	100
Dow Jones (CBOT) (11) - All Months (\$10DOW JONES FUTURES)								
11	Spec		Increase	USD	880	800	1,100	1,000
11	Hedge/Member		Increase	USD	800	800	1,000	1,000
Dow Jones (CBOT) (11) - All Months ()								
DO	Spec		Increase	USD	2,200	2,000	2,750	2,500
DO	Hedge/Member		Increase	USD	2,000	2,000	2,500	2,500
Dow Jones (CBOT) (11) - All Months (BTIC ON E-MINI DJIA FUTURES)								
YMT	Spec		Increase	USD	440	400	550	500
YMT	Hedge/Member		Increase	USD	400	400	500	500

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
Intra Spreads								
Dow Jones (CBOT) (11) - All Months (E-MINI DJIA FUTURES MARKER)								
YMI	Spec		Increase	USD	440	400	550	500
YMI	Hedge/Member		Increase	USD	400	400	500	500
Dow Jones (CBOT) (11) - All Months (E-MINI DOW JONES INDEX)								
YM	Spec		Increase	USD	440	400	550	500
YM	Hedge/Member		Increase	USD	400	400	500	500
E-Mini Nasdaq Biotechnology Index Futures (BQ) - All Months (BTIC E-MINI NASDAQ BIOTECHNOLOGY)								
BIT	Spec		Increase	USD	578	525	825	750
BIT	Hedge/Member		Increase	USD	525	525	750	750
E-Mini Nasdaq Biotechnology Index Futures (BQ) - All Months (E-MINI NASDAQ BIOTECH SYNT MARKER)								
BTT	Spec		Increase	USD	578	525	825	750
BTT	Hedge/Member		Increase	USD	525	525	750	750
E-Mini Nasdaq Biotechnology Index Futures (BQ) - All Months (E-MINI NASDAQ BIOTECHNOLOGY FUTURES)								
BQ	Spec		Increase	USD	578	525	825	750
BQ	Hedge/Member		Increase	USD	525	525	750	750
E-Mini S&P Midcap 400 (MD) - All Months (BTIC E-MINI S&P MIDCAP 400 FUT)								
EMT	Spec		Increase	USD	275	250	358	325
EMT	Hedge/Member		Increase	USD	250	250	325	325
E-Mini S&P Midcap 400 (MD) - All Months (EMINI MIDCAP FUTURES)								
ME	Spec		Increase	USD	275	250	358	325
ME	Hedge/Member		Increase	USD	250	250	325	325
E-Mini S&P Midcap 400 (MD) - All Months (E-MINI S&P MIDCAP 400 SYNT MARKER)								
ETT	Spec		Increase	USD	275	250	358	325
ETT	Hedge/Member		Increase	USD	250	250	325	325
E-Mini S&P Midcap 400 (MD) - All Months (S&P 400 FUTURES)								
MD	Spec		Increase	USD	1,375	1,250	1,788	1,625
MD	Hedge/Member		Increase	USD	1,250	1,250	1,625	1,625
NIKKEI 225 Stock Index (NK) - All Months (NIKKEI 225 DOLLAR FUTURES)								
NK	Spec		Increase	USD	385	350	440	400
NK	Hedge/Member		Increase	USD	350	350	400	400
S&P 500/Citigroup Growth Index - All Months (BTIC S&P 500 / GROWTH)								
SGT	Spec		Decrease	USD	440	400	330	300
SGT	Hedge/Member		Decrease	USD	400	400	300	300

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
Intra Spreads								
S&P 500/Citigroup Growth Index - All Months (S&P 500 / GROWTH SYNT MARKER)								
TGT	Spec		Decrease	USD	440	400	330	300
TGT	Hedge/Member		Decrease	USD	400	400	300	300
S&P 500/Citigroup Growth Index - All Months (S&P/ CITIGROUP GROWTH INDEX FUTURES)								
SG	Spec		Decrease	USD	440	400	330	300
SG	Hedge/Member		Decrease	USD	400	400	300	300
S&P 500/Citigroup Value Index - All Months (BTIC S&P/ CITIGROUP VALUE FUTURE)								
SUT	Spec		Decrease	USD	605	550	440	400
SUT	Hedge/Member		Decrease	USD	550	550	400	400
S&P 500/Citigroup Value Index - All Months (S&P VALUE INDEX SYNT MARKER)								
TST	Spec		Decrease	USD	605	550	440	400
TST	Hedge/Member		Decrease	USD	550	550	400	400
S&P 500/Citigroup Value Index - All Months (S&P/ CITIGROUP VALUE FUTURES)								
SU	Spec		Decrease	USD	605	550	440	400
SU	Hedge/Member		Decrease	USD	550	550	400	400
Yen-based Nikkei (N1) - All Months (E-MINI NIKKEI 225 YEN DENOMINATED)								
ENY	Spec		Increase	JPY	8,360	7,600	8,800	8,000
ENY	Hedge/Member		Increase	JPY	7,600	7,600	8,000	8,000
Yen-based Nikkei (N1) - All Months (NIKKEI 225 YEN FUT)								
N1	Spec		Increase	JPY	41,800	38,000	44,000	40,000
N1	Hedge/Member		Increase	JPY	38,000	38,000	40,000	40,000
INTEREST RATES - Intra Spreads								
U.S. Treasury Bond (17) - Month 1 vs. Month 2 (30 YR U.S. TREASURY BOND FUTURES)								
17	Spec		Increase	USD	798	725	897	815
17	Hedge/Member		Increase	USD	725	725	815	815
U.S. Treasury Bond (17) - Month 1 vs. Month 3 (30 YR U.S. TREASURY BOND FUTURES)								
17	Spec		New	USD			935	850
17	Hedge/Member		New	USD			850	850
U.S. Treasury Bond (17) - Month 2 vs. Month 3 (30 YR U.S. TREASURY BOND FUTURES)								
17	Spec		New	USD			897	815
17	Hedge/Member		New	USD			815	815
Ultra Long Bond (UBE) - All Months (LONG TERM U.S. TREASURY BOND FUTURE)								
UBE	Spec		Increase	USD	853	775	952	865
UBE	Hedge/Member		Increase	USD	775	775	865	865

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

METALS - Intra Spreads

Mths 1-4 vs Mths 1-4 (ALUMINA FOB METAL BULLETIN FUTURES)

ALB	Spec		New	USD			193	175
ALB	Hedge/Member		New	USD			175	175

Mths 1-4 vs Mths 1-4 (ALUMINA FOB S&P GLOBAL PLATTS FUT)

ALA	Spec		New	USD			193	175
ALA	Hedge/Member		New	USD			175	175

Mths 1-4 vs Mths 5+ (ALUMINA FOB METAL BULLETIN FUTURES)

ALB	Spec		New	USD			193	175
ALB	Hedge/Member		New	USD			175	175

Mths 1-4 vs Mths 5+ (ALUMINA FOB S&P GLOBAL PLATTS FUT)

ALA	Spec		New	USD			193	175
ALA	Hedge/Member		New	USD			175	175

Mths 5+ vs Mths 5+ (ALUMINA FOB METAL BULLETIN FUTURES)

ALB	Spec		New	USD			193	175
ALB	Hedge/Member		New	USD			175	175

Mths 5+ vs Mths 5+ (ALUMINA FOB S&P GLOBAL PLATTS FUT)

ALA	Spec		New	USD			193	175
ALA	Hedge/Member		New	USD			175	175

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
Intra Spreads								
NGL/PETROCHEMICALS - Intra Spreads								
Conway Normal Butane (OPIS) Swap - All Months (CONWAY NORMAL BUTANE FUT)								
8M	Spec		Decrease	USD	3,300	3,000	2,750	2,500
8M	Hedge/Member		Decrease	USD	3,000	3,000	2,500	2,500
Conway Propane (OPIS) Swap - All Months (CONWAY PROPANE 5 DEC. FUT)								
8K	Spec		Decrease	USD	1,980	1,800	1,430	1,300
8K	Hedge/Member		Decrease	USD	1,800	1,800	1,300	1,300
Mont Belvieu Isobutane (OPIS) Swap - All Months (MT BELVIEU ISO BUTANE 5 DEC. S)								
8I	Spec		Increase	USD	1,100	1,000	1,320	1,200
8I	Hedge/Member		Increase	USD	1,000	1,000	1,200	1,200
MONT BELVIEU PHYSICAL ETHANE (OPIS) - All Months (MT. BELVIEU PHSCL ETHANE OPIS)								
3Q	Spec		Increase	USD	550	500	935	850
3Q	Hedge/Member		Increase	USD	500	500	850	850
PGP Polymer Grade Propylene (PCW) Calendar Swap Futures - All Months (PGP POLYMER GRD PROPYLENE CAL FUT)								
PGP	Spec		Increase	USD	1,650	1,500	1,980	1,800
PGP	Hedge/Member		Increase	USD	1,500	1,500	1,800	1,800

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						
ALUMINA FOB AUSTRALIA (METAL BULLETIN) FUTURES (CX-ALB - CME) vs COAL (API 2) CIF ARA (ARGUS/MCCLOSKEY) SWAP FUTURESS (NY-MTF - CME)						
Spread Credit Rate	New	+3:-1			20%	20%
ALUMINA FOB AUSTRALIA (METAL BULLETIN) FUTURES (CX-ALB - CME) vs COAL (API 4) FOB RICHARDS BAY (ARGUS/MCCLOSKEY) SWAP FUTURES (NY-MFF - CME)						
Spread Credit Rate	New	+3:-1			20%	20%
ALUMINA FOB AUSTRALIA (PLATTS) FUTURES (CX-ALA - CME) vs COAL (API 2) CIF ARA (ARGUS/MCCLOSKEY) SWAP FUTURESS (NY-MTF - CME)						
Spread Credit Rate	New	+3:-1			20%	20%
ALUMINA FOB AUSTRALIA (PLATTS) FUTURES (CX-ALA - CME) vs COAL (API 4) FOB RICHARDS BAY (ARGUS/MCCLOSKEY) SWAP FUTURES (NY-MFF - CME)						
Spread Credit Rate	New	+3:-1			20%	20%
ALUMINA FOB AUSTRALIA (S&P) FUTURES (CX-ALA - CME) vs COAL (API 2) CIF ARA (ARGUS/MCCLOSKEY) SWAP FUTURESS (NY-MTF - CME)						
Spread Credit Rate	New	+3:-1			20%	20%
ALUMINA FOB AUSTRALIA (S&P) FUTURES (CX-ALA - CME) vs COAL (API 4) FOB RICHARDS BAY (ARGUS/MCCLOSKEY) SWAP FUTURES (NY-MFF - CME)						
Spread Credit Rate	New	+3:-1			20%	20%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
CRUDE OIL - Inter-commodity Spread Rates						
1% FUEL OIL (PLATTS) CARGOES CIF MED SWAP FUTURES (NY-1W - CME) vs BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME)						
Spread Credit Rate	Increase	+2:-15	60%	60%	80%	80%
1% FUEL OIL (PLATTS) CARGOES CIF MED SWAP FUTURES (NY-1W - CME) vs BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME)						
Spread Credit Rate	Increase	+2:-15	60%	60%	80%	80%
1% FUEL OIL (PLATTS) CARGOES CIF MED SWAP FUTURES (NY-1W - CME) vs BRENT CRUDE OIL PENULTIMATE FINANCIAL FUTURES (NY-BB - CME)						
Spread Credit Rate	Increase	+2:-15	60%	60%	80%	80%
1% FUEL OIL (PLATTS) CARGOES CIF MED SWAP FUTURES (NY-1W - CME) vs DATED BRENT (PLATTS) CALENDAR SWAP FUTURES (NY-UB - CME)						
Spread Credit Rate	Increase	+3:-19	65%	65%	75%	75%
1% FUEL OIL (PLATTS) CARGOES CIF MED SWAP FUTURES (NY-1W - CME) vs DUBAI CRUDE OIL (PLATTS) CALENDAR SWAP FUTURES (NY-DC - CME)						
Spread Credit Rate	Increase	+3:-19	65%	65%	85%	85%
1% FUEL OIL (PLATTS) CARGOES CIF MED SWAP FUTURES (NY-1W - CME) vs LIGHT SWEET CRUDE OIL FUTURES (NY-CL - CME)						
Spread Credit Rate	Increase	+3:-19	60%	60%	80%	80%
1% FUEL OIL (PLATTS) CARGOES CIF MED SWAP FUTURES (NY-1W - CME) vs WTI CALENDAR SWAP FUTURES (NY-CS - CME)						
Spread Credit Rate	Increase	+3:-19	60%	60%	80%	80%
BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME) vs CRUDE OIL FINANCIAL FUTURES (NY-WS - CME)						
Spread Credit Rate	Increase	+1:-1	82%	82%	85%	85%
Spread Credit Rate	Increase	+1:-1	89%	89%	91%	91%
BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME) vs EUROPEAN 1% FUEL OIL (PLATTS) BARGES FOB RDAM CALENDAR SWAP FUTURES (NY-UH - CME)						
Spread Credit Rate	Decrease	+33:-5	85%	85%	80%	80%
BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME) vs EUROPEAN 1% FUEL OIL (PLATTS) BARGES FOB RDAM CALENDAR SWAP FUTURES (NY-UH - CME).						
Spread Credit Rate	Decrease	+33:-5	85%	85%	80%	80%
BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME) vs GULF COAST JET FUEL (PLATTS) CALENDAR SWAP FUTURES (NY-GE - CME)						
Spread Credit Rate	Increase	+1:-1	60%	60%	75%	75%
BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME) vs HEATING OIL CALENDAR SWAP FUTURES (NY-MP - CME)						
Spread Credit Rate	Increase	+1:-1	70%	70%	77%	77%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME) vs HEATING OIL LAST DAY FINANCIAL FUTURES (NY-23 - CME)						
Spread Credit Rate	Increase	+1:-1	70%	70%	77%	77%
BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME) vs LIGHT SWEET CRUDE OIL FUTURES (NY-CL - CME)						
Spread Credit Rate	Increase	+1:-1	82%	82%	85%	85%
Spread Credit Rate	Increase	+1:-1	85%	85%	87%	87%
Spread Credit Rate	Increase	+1:-1	89%	89%	91%	91%
BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME) vs RBOB GASOLINE FUTURES (NY-RB - CME)						
Spread Credit Rate	Decrease	+1:-1	74%	74%	67%	67%
BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME) vs SINGAPORE FUEL OIL 380 CST (PLATTS) SWAP FUTURES (NY-SE - CME)						
Spread Credit Rate	Decrease	+19:-3	85%	85%	81%	81%
BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME) vs SINGAPORE FUEL OIL 380 CST (PLATTS) SWAP FUTURES (NY-SE - CME).						
Spread Credit Rate	Decrease	+19:-3	85%	85%	81%	81%
BRENT CRUDE OIL BULLET SWAP FINANCIAL (NYM-BB, BZ, CY) vs HEATING OIL (NYM-HO, BH, MP)						
Spread Credit Rate	Increase	+1:-1	70%	70%	77%	77%
Spread Credit Rate	Increase	+1:-1	73%	73%	82%	82%
BRENT CRUDE OIL BULLET SWAP FINANCIAL (NYM-BB, BZ, CY) vs SINGAPORE 380CST FUEL OIL (PLATTS) SWAP (NYM-SE - CME)						
Spread Credit Rate	Decrease	+19:-3	85%	85%	81%	81%
BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME) vs EUROPEAN 1% FUEL OIL (PLATTS) BARGES FOB RDAM CALENDAR SWAP FUTURES (NY-UH - CME)						
Spread Credit Rate	Decrease	+33:-5	85%	85%	80%	80%
BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME) vs GULF COAST JET FUEL (PLATTS) CALENDAR SWAP FUTURES (NY-GE - CME)						
Spread Credit Rate	Increase	+1:-1	60%	60%	75%	75%
BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME) vs HEATING OIL CALENDAR SWAP FUTURES (NY-MP - CME)						
Spread Credit Rate	Increase	+1:-1	73%	73%	82%	82%
BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME) vs HEATING OIL FINANCIAL FUTURES (NY-BH - CME)						
Spread Credit Rate	Increase	+1:-1	70%	70%	77%	77%
Spread Credit Rate	Increase	+1:-1	73%	73%	82%	82%
BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME) vs HEATING OIL LAST DAY FINANCIAL FUTURES (NY-23 - CME)						
Spread Credit Rate	Increase	+1:-1	70%	70%	77%	77%
Spread Credit Rate	Increase	+1:-1	73%	73%	82%	82%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME) vs LIGHT SWEET CRUDE OIL FUTURES (NY-CL - CME)						
Spread Credit Rate	Increase	+1:-1	89%	89%	91%	91%
Spread Credit Rate	Increase	+1:-1	85%	85%	87%	87%
Spread Credit Rate	Increase	+1:-1	82%	82%	85%	85%
BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME) vs NEW YORK HARBOR NO. 2 HEATING OIL FUTURES (NY-HO - CME)						
Spread Credit Rate	Increase	+1:-1	70%	70%	77%	77%
Spread Credit Rate	Increase	+1:-1	73%	73%	82%	82%
Spread Credit Rate	Decrease	+1:-1	74%	74%	70%	70%
BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME) vs RBOB GASOLINE FUTURES (NY-RB - CME)						
Spread Credit Rate	Decrease	+1:-1	72%	72%	67%	67%
BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME) vs SINGAPORE FUEL OIL 380 CST (PLATTS) SWAP FUTURES (NY-SE - CME)						
Spread Credit Rate	Decrease	+19:-3	85%	85%	81%	81%
BRENT CRUDE OIL PENULTIMATE FINANCIAL FUTURES (NY-BB - CME) vs EUROPEAN 1% FUEL OIL (PLATTS) BARGES FOB RDAM CALENDAR SWAP FUTURES (NY-UH - CME)						
Spread Credit Rate	Decrease	+33:-5	85%	85%	80%	80%
BRENT CRUDE OIL PENULTIMATE FINANCIAL FUTURES (NY-BB - CME) vs GULF COAST JET FUEL (PLATTS) CALENDAR SWAP FUTURES (NY-GE - CME)						
Spread Credit Rate	Increase	+1:-1	60%	60%	75%	75%
BRENT CRUDE OIL PENULTIMATE FINANCIAL FUTURES (NY-BB - CME) vs HEATING OIL CALENDAR SWAP FUTURES (NY-MP - CME)						
Spread Credit Rate	Increase	+1:-1	73%	73%	82%	82%
BRENT CRUDE OIL PENULTIMATE FINANCIAL FUTURES (NY-BB - CME) vs HEATING OIL FINANCIAL FUTURES (NY-BH - CME)						
Spread Credit Rate	Increase	+1:-1	70%	70%	77%	77%
Spread Credit Rate	Increase	+1:-1	73%	73%	82%	82%
BRENT CRUDE OIL PENULTIMATE FINANCIAL FUTURES (NY-BB - CME) vs HEATING OIL LAST DAY FINANCIAL FUTURES (NY-23 - CME)						
Spread Credit Rate	Increase	+1:-1	70%	70%	77%	77%
Spread Credit Rate	Increase	+1:-1	73%	73%	82%	82%
BRENT CRUDE OIL PENULTIMATE FINANCIAL FUTURES (NY-BB - CME) vs LIGHT SWEET CRUDE OIL FUTURES (NY-CL - CME)						
Spread Credit Rate	Increase	+1:-1	89%	89%	91%	91%
Spread Credit Rate	Increase	+1:-1	85%	85%	87%	87%
Spread Credit Rate	Increase	+1:-1	82%	82%	85%	85%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
BRENT CRUDE OIL PENULTIMATE FINANCIAL FUTURES (NY-BB - CME) vs RBOB GASOLINE FUTURES (NY-RB - CME)						
Spread Credit Rate	Decrease	+1:-1	74%	74%	70%	70%
Spread Credit Rate	Decrease	+1:-1	72%	72%	67%	67%
CRUDE OIL FINANCIAL FUTURES (NY-WS - CME) vs 1% FUEL OIL (PLATTS) CARGOES CIF MED SWAP FUTURES (NY-1W - CME)						
Spread Credit Rate	Increase	+19:-3	60%	60%	80%	80%
CRUDE OIL FINANCIAL FUTURES (NY-WS - CME) vs BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME)						
Spread Credit Rate	Increase	+1:-1	82%	82%	85%	85%
Spread Credit Rate	Increase	+1:-1	85%	85%	87%	87%
Spread Credit Rate	Increase	+1:-1	89%	89%	91%	91%
CRUDE OIL FINANCIAL FUTURES (NY-WS - CME) vs BRENT CRUDE OIL PENULTIMATE FINANCIAL FUTURES (NY-BB - CME)						
Spread Credit Rate	Increase	+1:-1	82%	82%	85%	85%
Spread Credit Rate	Increase	+1:-1	85%	85%	87%	87%
Spread Credit Rate	Increase	+1:-1	89%	89%	91%	91%
CRUDE OIL FINANCIAL FUTURES (NY-WS - CME) vs DUBAI CRUDE OIL (PLATTS) CALENDAR SWAP FUTURES (NY-DC - CME)						
Spread Credit Rate	Increase	+1:-1	70%	70%	85%	85%
CRUDE OIL FINANCIAL FUTURES (NY-WS - CME) vs GULF COAST JET FUEL (PLATTS) CALENDAR SWAP FUTURES (NY-GE - CME)						
Spread Credit Rate	Increase	+1:-1	60%	60%	70%	70%
CRUDE OIL FINANCIAL FUTURES (NY-WS - CME) vs GULF COAST NO. 6 FUEL OIL 3.0% (PLATTS) SWAP FUTURES (NY-MF - CME)						
Spread Credit Rate	New	+1:-1			85%	85%
CRUDE OIL FINANCIAL FUTURES (NY-WS - CME) vs GULF COAST SOUR CRUDE OIL FUTURES (NY-MB - CME)						
Spread Credit Rate	Increase	+1:-1	55%	55%	78%	78%
CRUDE OIL FINANCIAL FUTURES (NY-WS - CME) vs LOOP GULF COAST SOUR CRUDE OIL FUTURES (NY-MB - CME)						
Spread Credit Rate	Increase	+1:-1	55%	55%	78%	78%
CRUDE OIL FINANCIAL FUTURES (NY-WS - CME) vs RBOB GASOLINE CALENDAR SWAP FUTURES (NY-RL - CME)						
Spread Credit Rate	Decrease	+1:-1	70%	70%	65%	65%
Spread Credit Rate	Decrease	+1:-1	79%	79%	76%	76%
CRUDE OIL FINANCIAL FUTURES (NY-WS - CME) vs RBOB GASOLINE FINANCIAL FUTURES (NY-RT - CME)						
Spread Credit Rate	Decrease	+1:-1	75%	75%	70%	70%
Spread Credit Rate	Decrease	+1:-1	79%	79%	76%	76%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
CRUDE OIL FINANCIAL FUTURES (NY-WS - CME) vs RBOB GASOLINE FUTURES (NY-RB - CME)						
Spread Credit Rate	Decrease	+1:-1	68%	68%	65%	65%
Spread Credit Rate	Decrease	+1:-1	79%	79%	76%	76%
CRUDE OIL FINANCIAL FUTURES (NY-WS - CME) vs SINGAPORE GASOIL (PLATTS) SWAP FUTURES (NY-SG - CME)						
Spread Credit Rate	Decrease	+1:-1	70%	70%	60%	60%
CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-26 - CME) vs 1% FUEL OIL (PLATTS) CARGOES CIF MED SWAP FUTURES (NY-1W - CME)						
Spread Credit Rate	Increase	+19:-3	60%	60%	80%	80%
CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-26 - CME) vs BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME)						
Spread Credit Rate	Increase	+1:-1	89%	89%	91%	91%
Spread Credit Rate	Increase	+1:-1	82%	82%	85%	85%
Spread Credit Rate	Increase	+1:-1	85%	85%	87%	87%
CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-26 - CME) vs BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME)						
Spread Credit Rate	Increase	+1:-1	89%	89%	91%	91%
Spread Credit Rate	Increase	+1:-1	82%	82%	85%	85%
Spread Credit Rate	Increase	+1:-1	85%	85%	87%	87%
CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-26 - CME) vs BRENT CRUDE OIL PENULTIMATE FINANCIAL FUTURES (NY-BB - CME)						
Spread Credit Rate	Increase	+1:-1	89%	89%	91%	91%
Spread Credit Rate	Increase	+1:-1	82%	82%	85%	85%
Spread Credit Rate	Increase	+1:-1	85%	85%	87%	87%
CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-26 - CME) vs DUBAI CRUDE OIL (PLATTS) CALENDAR SWAP FUTURES (NY-DC - CME)						
Spread Credit Rate	New	+1:-1			85%	85%
CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-26 - CME) vs GULF COAST JET FUEL (PLATTS) CALENDAR SWAP FUTURES (NY-GE - CME)						
Spread Credit Rate	Increase	+1:-1	60%	60%	70%	70%
CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-26 - CME) vs GULF COAST NO. 6 FUEL OIL 3.0% (PLATTS) SWAP FUTURES (NY-MF - CME)						
Spread Credit Rate	New	+1:-1			85%	85%
CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-26 - CME) vs LOOP GULF COAST SOUR CRUDE OIL FUTURES (NY-MB - CME)						
Spread Credit Rate	Increase	+1:-1	55%	55%	78%	78%
CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-26 - CME) vs SINGAPORE GASOIL (PLATTS) SWAP FUTURES (NY-SG - CME)						
Spread Credit Rate	Decrease	+1:-1	70%	70%	60%	60%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
DATED BRENT (PLATTS) CALENDAR SWAP FUTURES (NY-UB - CME) vs SINGAPORE MOGAS 95 UNLEADED (PLATTS) SWAP FUTURES (NY-V0 - CME)						
Spread Credit Rate	Increase	+1:-1	50%	50%	70%	70%
DUBAI CRUDE OIL (PLATTS) CALENDAR SWAP FUTURES (NY-DC - CME) vs DATED BRENT (PLATTS) CALENDAR SWAP FUTURES (NY-UB - CME)						
Spread Credit Rate	New	+1:-1			85%	85%
DUBAI CRUDE OIL (PLATTS) CALENDAR SWAP FUTURES (NY-DC - CME) vs LOS ANGELES CARB DIESEL (OPIS) OUTRIGHT SWAP FUTURES (NY-LX - CME)						
Spread Credit Rate	Increase	+1:-1	50%	50%	65%	65%
DUBAI CRUDE OIL (PLATTS) CALENDAR SWAP FUTURES (NY-DC - CME) vs SINGAPORE GASOIL (PLATTS) SWAP FUTURES (NY-SG - CME)						
Spread Credit Rate	New	+1:-1			60%	60%
DUBAI CRUDE OIL (PLATTS) CALENDAR SWAP FUTURES (NY-DC - CME) vs WTI CALENDAR SWAP FUTURES (NY-CS - CME)						
Spread Credit Rate	Increase	+1:-1	70%	70%	85%	85%
DUBAI CRUDE OIL (PLATTS) CALENDAR SWAP FUTURES (NY-DC - CME) vs WTI CALENDAR SWAP FUTURES (NY-CS - CME).						
Spread Credit Rate	Increase	+1:-1	70%	70%	85%	85%
DUBAI CRUDE OIL CALENDAR SWAP (NYM-DC - CME) vs LIGHT, SWEET CRUDE OIL FUTURES (NYM-CL, CS, WS)						
Spread Credit Rate	Increase	+1:-1	70%	70%	85%	85%
DUBAI CRUDE OIL CALENDAR SWAP (NYM-DC - CME) vs SINGAPORE GASOIL SWAP (NYM-SG - CME)						
Spread Credit Rate	Increase	+1:-1	50%	50%	60%	60%
EIA FLAT TAX ON-HIGHWAY DIESEL SWAP FUTURES (NY-A5 - CME) vs DUBAI CRUDE OIL (PLATTS) CALENDAR SWAP FUTURES (NY-DC - CME)						
Spread Credit Rate	Increase	+1:-1	60%	60%	70%	70%
EUROPEAN 1% FUEL OIL (PLATTS) BARGES FOB RDAM CALENDAR SWAP FUTURES (NY-UH - CME) vs DUBAI CRUDE OIL (PLATTS) CALENDAR SWAP FUTURES (NY-DC - CME)						
Spread Credit Rate	Increase	+3:-19	65%	65%	85%	85%
EUROPEAN 1% FUEL OIL (PLATTS) BARGES FOB RDAM CALENDAR SWAP FUTURES (NY-UH - CME) vs LIGHT SWEET CRUDE OIL FUTURES (NY-CL - CME)						
Spread Credit Rate	Increase	+5:-33	60%	60%	80%	80%
EUROPEAN 1% FUEL OIL (PLATTS) BARGES FOB RDAM CALENDAR SWAP FUTURES (NY-UH - CME) vs WTI CALENDAR SWAP FUTURES (NY-CS - CME)						
Spread Credit Rate	Increase	+5:-33	60%	60%	80%	80%
EUROPEAN 1% FUEL OIL (PLATTS) BARGES FOB RDAM CALENDAR SWAP FUTURES (NY-UH - CME) vs WTI CALENDAR SWAP FUTURES (NY-CS - CME).						
Spread Credit Rate	Increase	+5:-33	60%	60%	80%	80%
EUROPEAN 3.5% FUEL OIL (PLATTS) BARGES FOB RDAM CALENDAR SWAP FUTURES (NY-UV - CME) vs LIGHT SWEET CRUDE OIL FUTURES (NY-CL - CME)						
Spread Credit Rate	New	+5:-33			85%	85%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
EUROPEAN 3.5% FUEL OIL (PLATTS) BARGES FOB RDAM CALENDAR SWAP FUTURES (NY-UV - CME) vs WTI CALENDAR SWAP FUTURES (NY-CS - CME)						
Spread Credit Rate	New	+5:-33			85%	85%
EUROPEAN NAPHTHA (PLATTS) CALENDAR SWAP FUTURES (NY-UN - CME) vs DUBAI CRUDE OIL (PLATTS) CALENDAR SWAP FUTURES (NY-DC - CME)						
Spread Credit Rate	Increase	+1:-9	60%	60%	75%	75%
GULF COAST JET FUEL (PLATTS) CALENDAR SWAP FUTURES (NY-GE - CME) vs BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME)						
Spread Credit Rate	Increase	+1:-1	60%	60%	75%	75%
GULF COAST JET FUEL (PLATTS) CALENDAR SWAP FUTURES (NY-GE - CME) vs BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME)						
Spread Credit Rate	Increase	+1:-1	60%	60%	75%	75%
GULF COAST JET FUEL (PLATTS) CALENDAR SWAP FUTURES (NY-GE - CME) vs BRENT CRUDE OIL PENULTIMATE FINANCIAL FUTURES (NY-BB - CME)						
Spread Credit Rate	Increase	+1:-1	60%	60%	75%	75%
GULF COAST JET FUEL (PLATTS) CALENDAR SWAP FUTURES (NY-GE - CME) vs DATED BRENT (PLATTS) CALENDAR SWAP FUTURES (NY-UB - CME)						
Spread Credit Rate	Increase	+1:-1	60%	60%	75%	75%
GULF COAST SOUR CRUDE OIL FUTURES (NY-MB - CME) vs WTI CALENDAR SWAP FUTURES (NY-CS - CME)						
Spread Credit Rate	Increase	+1:-1	55%	55%	78%	78%
HEATING OIL CALENDAR SWAP FUTURES (NY-MP - CME) vs DUBAI CRUDE OIL (PLATTS) CALENDAR SWAP FUTURES (NY-DC - CME)						
Spread Credit Rate	Increase	+1:-1	50%	50%	80%	80%
HEATING OIL FINANCIAL FUTURES (NYM-HO, BH, MP) vs DUBAI CRUDE OIL CALENDAR SWAP (NYM-DC - CME)						
Spread Credit Rate	Increase	+1:-1	70%	70%	80%	80%
LIGHT SWEET CRUDE OIL FUTURES (NY-CL - CME) vs GULF COAST NO. 6 FUEL OIL 3.0% (PLATTS) SWAP FUTURES (NY-MF - CME)						
Spread Credit Rate	New	+1:-1			85%	85%
LIGHT SWEET CRUDE OIL FUTURES (NY-CL - CME) vs LOOP GULF COAST SOUR CRUDE OIL FUTURES (NY-MB - CME)						
Spread Credit Rate	Increase	+1:-1	55%	55%	78%	78%
LIGHT SWEET CRUDE OIL FUTURES (NY-CL - CME) vs RBOB GASOLINE FINANCIAL FUTURES (NY-RT - CME)						
Spread Credit Rate	Decrease	+1:-1	75%	75%	70%	70%
Spread Credit Rate	Decrease	+1:-1	79%	79%	76%	76%
LIGHT SWEET CRUDE OIL FUTURES (NY-CL, CS, WS) vs GULF COAST JET FUEL (PLATTS) CALENDAR SWAP FUTURES (NY-GE - CME)						
Spread Credit Rate	Increase	+1:-1	60%	60%	70%	70%
LIGHT, SWEET CRUDE OIL FUTURES (NYM-CL, CS, WS) vs GULF COAST #6 FUEL 3.0% SWAP (NYM-MF - CME)						
Spread Credit Rate	Increase	+1:-1	70%	70%	85%	85%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
LIGHT, SWEET CRUDE OIL FUTURES (NYM-CL, CS, WS) vs SINGAPORE GASOIL SWAP (NYM-SG - CME)						
Spread Credit Rate	Decrease	+1:-1	70%	70%	60%	60%
LOOP GULF COAST SOUR CRUDE OIL FUTURES (NY-MB - CME) vs WTI CALENDAR SWAP FUTURES (NY-CS - CME)						
Spread Credit Rate	Increase	+1:-1	55%	55%	78%	78%
NY HARBOR RBOB GASOLINE (NYM-RB, RL, RT) vs LIGHT, SWEET CRUDE OIL FUTURES (NYM-CL, CS, WS)						
Spread Credit Rate	Decrease	+1:-1	79%	79%	76%	76%
Spread Credit Rate	Decrease	+1:-1	68%	68%	65%	65%
PREMIUM UNLEADED GASOLINE 10 PPM (PLATTS) FOB MED SWAP FUTURES (NY-3G - CME) vs DUBAI CRUDE OIL (PLATTS) CALENDAR SWAP FUTURES (NY-DC - CME)						
Spread Credit Rate	Increase	+3:-25	60%	60%	75%	75%
RBOB GASOLINE CALENDAR SWAP FUTURES (NY-RL - CME) vs BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME)						
Spread Credit Rate	Decrease	+1:-1	74%	74%	70%	70%
RBOB GASOLINE CALENDAR SWAP FUTURES (NY-RL - CME) vs BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME)						
Spread Credit Rate	Decrease	+1:-1	74%	74%	70%	70%
RBOB GASOLINE CALENDAR SWAP FUTURES (NY-RL - CME) vs LIGHT SWEET CRUDE OIL FUTURES (NY-CL - CME)						
Spread Credit Rate	Decrease	+1:-1	79%	79%	76%	76%
RBOB GASOLINE CALENDAR SWAP FUTURES (NY-RL - CME) vs WTI CALENDAR SWAP FUTURES (NY-CS - CME)						
Spread Credit Rate	Decrease	+1:-1	79%	79%	76%	76%
Spread Credit Rate	Decrease	+1:-1	70%	70%	65%	65%
RBOB GASOLINE FUTURES (NY-RB - CME) vs WTI CALENDAR SWAP FUTURES (NY-CS - CME)						
Spread Credit Rate	Decrease	+1:-1	79%	79%	76%	76%
Spread Credit Rate	Decrease	+1:-1	68%	68%	65%	65%
RBOB GASOLINE LAST DAY FINANCIAL FUTURES (NY-27 - CME) vs BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME)						
Spread Credit Rate	Decrease	+1:-1	72%	72%	67%	67%
RBOB GASOLINE LAST DAY FINANCIAL FUTURES (NY-27 - CME) vs BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME)						
Spread Credit Rate	Decrease	+1:-1	74%	74%	70%	70%
Spread Credit Rate	Decrease	+1:-1	72%	72%	67%	67%
RBOB GASOLINE LAST DAY FINANCIAL FUTURES (NY-27 - CME) vs BRENT CRUDE OIL PENULTIMATE FINANCIAL FUTURES (NY-BB - CME)						
Spread Credit Rate	Decrease	+1:-1	74%	74%	70%	70%
Spread Credit Rate	Decrease	+1:-1	72%	72%	67%	67%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
SINGAPORE JET KEROSENE (PLATTS) SWAP FUTURES (NY-KS - CME) vs DATED BRENT (PLATTS) CALENDAR SWAP FUTURES (NY-UB - CME)						
Spread Credit Rate	Increase	+1:-1	50%	50%	70%	70%
SINGAPORE MOGAS 92 UNLEADED (PLATTS) SWAP FUTURES (NY-1N - CME) vs DUBAI CRUDE OIL (PLATTS) CALENDAR SWAP FUTURES (NY-DC - CME)						
Spread Credit Rate	Increase	+1:-1	60%	60%	75%	75%
WTI CALENDAR SWAP FUTURES (NY-CS - CME) vs BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME)						
Spread Credit Rate	Increase	+1:-1	89%	89%	91%	91%
Spread Credit Rate	Increase	+1:-1	82%	82%	85%	85%
Spread Credit Rate	Increase	+1:-1	85%	85%	87%	87%
WTI CALENDAR SWAP FUTURES (NY-CS - CME) vs BRENT CRUDE OIL PENULTIMATE FINANCIAL FUTURES (NY-BB - CME)						
Spread Credit Rate	Increase	+1:-1	89%	89%	91%	91%
Spread Credit Rate	Increase	+1:-1	85%	85%	87%	87%
WTI CALENDAR SWAP FUTURES (NY-CS - CME) vs GULF COAST JET FUEL (PLATTS) CALENDAR SWAP FUTURES (NY-GE - CME)						
Spread Credit Rate	Increase	+1:-1	60%	60%	70%	70%
WTI CALENDAR SWAP FUTURES (NY-CS - CME) vs GULF COAST JET FUEL (PLATTS) CALENDAR SWAP FUTURES (NY-GE - CME).						
Spread Credit Rate	Increase	+1:-1	60%	60%	70%	70%
WTI CALENDAR SWAP FUTURES (NY-CS - CME) vs GULF COAST NO. 6 FUEL OIL 3.0% (PLATTS) SWAP FUTURES (NY-MF - CME)						
Spread Credit Rate	New	+1:-1			85%	85%
WTI CALENDAR SWAP FUTURES (NY-CS - CME) vs GULF COAST NO. 6 FUEL OIL 3.0% (PLATTS) SWAP FUTURES (NY-MF - CME).						
Spread Credit Rate	Increase	+1:-1	70%	70%	85%	85%
WTI CALENDAR SWAP FUTURES (NY-CS - CME) vs RBOB GASOLINE FINANCIAL FUTURES (NY-RT - CME)						
Spread Credit Rate	Decrease	+1:-1	79%	79%	76%	76%
WTI CALENDAR SWAP FUTURES (NY-CS - CME) vs SINGAPORE GASOIL (PLATTS) SWAP FUTURES (NY-SG - CME)						
Spread Credit Rate	Decrease	+1:-1	70%	70%	60%	60%
WTI CALENDAR SWAP FUTURES (NY-CS - CME) vs SINGAPORE GASOIL (PLATTS) SWAP FUTURES (NY-SG - CME).						
Spread Credit Rate	Decrease	+1:-1	70%	70%	60%	60%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
METALS - Inter-commodity Spread Rates						
ALUMINA FOB AUSTRALIA (METAL BULLETIN) FUTURES (CX-ALB - CME) vs ALUMINA FOB AUSTRALIA (PLATTS) FUTURES (CX-ALA - CME)						
Spread Credit Rate	New	+1:-1			90%	90%
ALUMINA FOB AUSTRALIA (METAL BULLETIN) FUTURES (CX-ALB - CME) vs ALUMINIUM EUROPEAN PREMIUM DUTY-PAID (METAL BULLETIN) FUTURES (CX-EDP - CME)						
Spread Credit Rate	New	+1:-5			20%	20%
ALUMINA FOB AUSTRALIA (METAL BULLETIN) FUTURES (CX-ALB - CME) vs ALUMINIUM EUROPEAN PREMIUM METAL BULLETIN (25MT-DUTY UNPAID) FUTURES (CX-AEP - CME)						
Spread Credit Rate	New	+1:-5			20%	20%
ALUMINA FOB AUSTRALIA (METAL BULLETIN) FUTURES (CX-ALB - CME) vs ALUMINUM FUTURES (CX-ALI - CME)						
Spread Credit Rate	New	+2:-1			20%	20%
ALUMINA FOB AUSTRALIA (METAL BULLETIN) FUTURES (CX-ALB - CME) vs ALUMINUM JAPAN PREMIUM (PLATTS) FUTURES (CX-MJP - CME)						
Spread Credit Rate	New	+1:-5			30%	30%
ALUMINA FOB AUSTRALIA (METAL BULLETIN) FUTURES (CX-ALB - CME) vs ALUMINUM MW US TRANSACTION PREMIUM PLATTS (25MT) SWAP FUTURES (CX-AUP - CME)						
Spread Credit Rate	New	+1:-3			20%	20%
ALUMINA FOB AUSTRALIA (METAL BULLETIN) FUTURES (CX-ALB - CME) vs COAL (API 2) CIF ARA (ARGUS/MCCLOSKEY) SWAP FUTURES (NY-MTF - CME)						
Spread Credit Rate	New	+3:-1			20%	20%
ALUMINA FOB AUSTRALIA (METAL BULLETIN) FUTURES (CX-ALB - CME) vs COAL (API 4) FOB RICHARDS BAY (ARGUS/MCCLOSKEY) SWAP FUTURES (NY-MFF - CME)						
Spread Credit Rate	New	+3:-1			20%	20%
ALUMINA FOB AUSTRALIA (METAL BULLETIN) FUTURES (CX-ALB - CME) vs COPPER FUTURES (CX-HG - CME)						
Spread Credit Rate	New	+2:-1			30%	30%
ALUMINA FOB AUSTRALIA (METAL BULLETIN) FUTURES (CX-ALB - CME) vs IRON ORE FUTURES (NY-TIO - CME)						
Spread Credit Rate	New	+3:-1			20%	20%
ALUMINA FOB AUSTRALIA (PLATTS) FUTURES (CX-ALA - CME) vs COAL (API 2) CIF ARA (ARGUS/MCCLOSKEY) SWAP FUTURES (NY-MTF - CME)						
Spread Credit Rate	New	+3:-1			20%	20%
ALUMINA FOB AUSTRALIA (PLATTS) FUTURES (CX-ALA - CME) vs COAL (API 4) FOB RICHARDS BAY (ARGUS/MCCLOSKEY) SWAP FUTURES (NY-MFF - CME)						
Spread Credit Rate	New	+3:-1			20%	20%
ALUMINA FOB AUSTRALIA (PLATTS) FUTURES (CX-ALA - CME) vs IRON ORE FUTURES (NY-TIO - CME)						
Spread Credit Rate	New	+3:-1			20%	20%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
ALUMINA FOB AUSTRALIA (S&P) FUTURES (CX-ALA - CME) vs ALUMINIUM EUROPEAN PREMIUM METAL BULLETIN (25MT-DUTY UNPAID) FUTURES (CX-AEP - CME)						
Spread Credit Rate	New	+1:-5			20%	20%
ALUMINA FOB AUSTRALIA (S&P) FUTURES (CX-ALA - CME) vs ALUMINUM FUTURES (CX-ALI - CME)						
Spread Credit Rate	New	+2:-1			50%	50%
ALUMINA FOB AUSTRALIA (S&P) FUTURES (CX-ALA - CME) vs ALUMINUM JAPAN PREMIUM (PLATTS) FUTURES (CX-MJP - CME)						
Spread Credit Rate	New	+1:-5			30%	30%
Spread Credit Rate	New	+1:-5			20%	20%
ALUMINA FOB AUSTRALIA (S&P) FUTURES (CX-ALA - CME) vs ALUMINUM MW US TRANSACTION PREMIUM PLATTS (25MT) SWAP FUTURES (CX-AUP - CME)						
Spread Credit Rate	New	+1:-3			20%	20%
ALUMINA FOB AUSTRALIA (S&P) FUTURES (CX-ALA - CME) vs COAL (API 2) CIF ARA (ARGUS/MCCLOSKEY) SWAP FUTURES (NY-MTF - CME)						
Spread Credit Rate	New	+3:-1			20%	20%
ALUMINA FOB AUSTRALIA (S&P) FUTURES (CX-ALA - CME) vs COAL (API 4) FOB RICHARDS BAY (ARGUS/MCCLOSKEY) SWAP FUTURES (NY-MFF - CME)						
Spread Credit Rate	New	+3:-1			20%	20%
ALUMINA FOB AUSTRALIA (S&P) FUTURES (CX-ALA - CME) vs COPPER FUTURES (CX-HG - CME)						
Spread Credit Rate	New	+2:-1			30%	30%
ALUMINA FOB AUSTRALIA (S&P) FUTURES (CX-ALA - CME) vs IRON ORE FUTURES (NY-TIO - CME)						
Spread Credit Rate	New	+3:-1			20%	20%
ALUMINA METAL BULLETIN FUTURES (CX-ALB - CME) vs ALUMINUM JAPAN PREMIUM (PLATTS) FUTURES (CX-MJP - CME)						
Spread Credit Rate	New	+1:-5			30%	30%
PETROLEUM CRACKS AND SPREADS - Inter-commodity Spread Rates						
NY HARBOR ULSD VS. LOW SULPHUR GASOIL (1,000BBL) FUTURES (NY-NLS - CME) vs NEW YORK HARBOR NO. 2 HEATING OIL FUTURES (NY-HO - CME)						
Spread Credit Rate	Increase	+1:-1	35%	35%	45%	45%

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						
1% FUEL OIL (PLATTS) CARGOES CIF MED SWAP FUTURES (NY-1W - CME) vs 1% FUEL OIL (PLATTS) CARGOES CIF NWE SWAP FUTURES (NY-1X - CME)						
Spread Credit Rate	Increase	+1:-1	70%	70%	90%	90%
1% FUEL OIL (PLATTS) CARGOES CIF MED SWAP FUTURES (NY-1W - CME) vs BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME)						
Spread Credit Rate	Increase	+2:-15	60%	60%	80%	80%
1% FUEL OIL (PLATTS) CARGOES CIF MED SWAP FUTURES (NY-1W - CME) vs BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME)						
Spread Credit Rate	Increase	+2:-15	60%	60%	80%	80%
1% FUEL OIL (PLATTS) CARGOES CIF MED SWAP FUTURES (NY-1W - CME) vs BRENT CRUDE OIL PENULTIMATE FINANCIAL FUTURES (NY-BB - CME)						
Spread Credit Rate	Increase	+2:-15	60%	60%	80%	80%
1% FUEL OIL (PLATTS) CARGOES CIF MED SWAP FUTURES (NY-1W - CME) vs DATED BRENT (PLATTS) CALENDAR SWAP FUTURES (NY-UB - CME)						
Spread Credit Rate	Increase	+3:-19	65%	65%	75%	75%
1% FUEL OIL (PLATTS) CARGOES CIF MED SWAP FUTURES (NY-1W - CME) vs DUBAI CRUDE OIL (PLATTS) CALENDAR SWAP FUTURES (NY-DC - CME)						
Spread Credit Rate	Increase	+3:-19	65%	65%	85%	85%
1% FUEL OIL (PLATTS) CARGOES CIF MED SWAP FUTURES (NY-1W - CME) vs EIA FLAT TAX ON-HIGHWAY DIESEL SWAP FUTURES (NY-A5 - CME)						
Spread Credit Rate	Increase	+2:-15	50%	50%	65%	65%
1% FUEL OIL (PLATTS) CARGOES CIF MED SWAP FUTURES (NY-1W - CME) vs EUROPEAN 1% FUEL OIL (PLATTS) BARGES FOB RDAM CALENDAR SWAP FUTURES (NY-UH - CME)						
Spread Credit Rate	Increase	+1:-1	85%	85%	90%	90%
1% FUEL OIL (PLATTS) CARGOES CIF MED SWAP FUTURES (NY-1W - CME) vs GASOLINE EURO-BOB OXY (ARGUS) NWE BARGES SWAP FUTURES (NY-7H - CME)						
Spread Credit Rate	Decrease	+1:-1	65%	65%	55%	55%
1% FUEL OIL (PLATTS) CARGOES CIF MED SWAP FUTURES (NY-1W - CME) vs GULF COAST JET FUEL (PLATTS) CALENDAR SWAP FUTURES (NY-GE - CME)						
Spread Credit Rate	Increase	+2:-15	60%	60%	70%	70%
1% FUEL OIL (PLATTS) CARGOES CIF MED SWAP FUTURES (NY-1W - CME) vs LIGHT SWEET CRUDE OIL FUTURES (NY-CL - CME)						
Spread Credit Rate	Increase	+3:-19	60%	60%	80%	80%
1% FUEL OIL (PLATTS) CARGOES CIF MED SWAP FUTURES (NY-1W - CME) vs SINGAPORE FUEL OIL 180 CST (PLATTS) CALENDAR SWAP FUTURES (NY-UA - CME)						
Spread Credit Rate	Increase	+1:-1	70%	70%	80%	80%
1% FUEL OIL (PLATTS) CARGOES CIF MED SWAP FUTURES (NY-1W - CME) vs WTI CALENDAR SWAP FUTURES (NY-CS - CME)						
Spread Credit Rate	Increase	+3:-19	60%	60%	80%	80%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
1% FUEL OIL (PLATTS) CARGOES CIF MED SWAP FUTURES (NY-SE - CME) vs GASOLINE EURO-BOB OXY (ARGUS) NWE BARGES SWAP FUTURES (NY-7H - CME)						
Spread Credit Rate	Decrease	+1:-1	65%	65%	55%	55%
1% FUEL OIL (PLATTS) CARGOES CIF NWE SWAP FUTURES (NY-1X - CME) vs EUROPEAN 1% FUEL OIL (PLATTS) BARGES FOB RDAM CALENDAR SWAP FUTURES (NY-UH - CME)						
Spread Credit Rate	Increase	-1:+1	60%	60%	90%	90%
Spread Credit Rate	Increase	+1:-1	60%	60%	90%	90%
3.5% FUEL OIL (PLATTS) CIF MED SWAP FUTURES (NY-7D - CME) vs GASOLINE EURO-BOB OXY (ARGUS) NWE BARGES SWAP FUTURES (NY-7H - CME)						
Spread Credit Rate	Decrease	+1:-1	70%	70%	55%	55%
BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME) vs EUROPEAN 1% FUEL OIL (PLATTS) BARGES FOB RDAM CALENDAR SWAP FUTURES (NY-UH - CME)						
Spread Credit Rate	Decrease	+33:-5	85%	85%	80%	80%
BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME) vs EUROPEAN 1% FUEL OIL (PLATTS) BARGES FOB RDAM CALENDAR SWAP FUTURES (NY-UH - CME).						
Spread Credit Rate	Decrease	+33:-5	85%	85%	80%	80%
BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME) vs GULF COAST JET FUEL (PLATTS) CALENDAR SWAP FUTURES (NY-GE - CME)						
Spread Credit Rate	Increase	+1:-1	60%	60%	75%	75%
BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME) vs HEATING OIL CALENDAR SWAP FUTURES (NY-MP - CME)						
Spread Credit Rate	Increase	+1:-1	70%	70%	77%	77%
BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME) vs HEATING OIL LAST DAY FINANCIAL FUTURES (NY-23 - CME)						
Spread Credit Rate	Increase	+1:-1	70%	70%	77%	77%
BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME) vs RBOB GASOLINE FUTURES (NY-RB - CME)						
Spread Credit Rate	Decrease	+1:-1	74%	74%	67%	67%
BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME) vs SINGAPORE FUEL OIL 380 CST (PLATTS) SWAP FUTURES (NY-SE - CME)						
Spread Credit Rate	Decrease	+19:-3	85%	85%	81%	81%
BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME) vs SINGAPORE FUEL OIL 380 CST (PLATTS) SWAP FUTURES (NY-SE - CME).						
Spread Credit Rate	Decrease	+19:-3	85%	85%	81%	81%
BRENT CRUDE OIL BULLET SWAP FINANCIAL (NYM-BB, BZ, CY) vs HEATING OIL (NYM-HO, BH, MP)						
Spread Credit Rate	Increase	+1:-1	70%	70%	77%	77%
Spread Credit Rate	Increase	+1:-1	73%	73%	82%	82%
BRENT CRUDE OIL BULLET SWAP FINANCIAL (NYM-BB, BZ, CY) vs SINGAPORE 380CST FUEL OIL (PLATTS) SWAP (NYM-SE - CME)						
Spread Credit Rate	Decrease	+19:-3	85%	85%	81%	81%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME) vs EUROPEAN 1% FUEL OIL (PLATTS) BARGES FOB RDAM CALENDAR SWAP FUTURES (NY-UH - CME)						
Spread Credit Rate	Decrease	+33:-5	85%	85%	80%	80%
BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME) vs GULF COAST JET FUEL (PLATTS) CALENDAR SWAP FUTURES (NY-GE - CME)						
Spread Credit Rate	Increase	+1:-1	60%	60%	75%	75%
BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME) vs HEATING OIL CALENDAR SWAP FUTURES (NY-MP - CME)						
Spread Credit Rate	Increase	+1:-1	73%	73%	82%	82%
BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME) vs HEATING OIL FINANCIAL FUTURES (NY-BH - CME)						
Spread Credit Rate	Increase	+1:-1	70%	70%	77%	77%
Spread Credit Rate	Increase	+1:-1	73%	73%	82%	82%
BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME) vs HEATING OIL LAST DAY FINANCIAL FUTURES (NY-23 - CME)						
Spread Credit Rate	Increase	+1:-1	70%	70%	77%	77%
Spread Credit Rate	Increase	+1:-1	73%	73%	82%	82%
BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME) vs NEW YORK HARBOR NO. 2 HEATING OIL FUTURES (NY-HO - CME)						
Spread Credit Rate	Increase	+1:-1	70%	70%	77%	77%
Spread Credit Rate	Increase	+1:-1	73%	73%	82%	82%
Spread Credit Rate	Decrease	+1:-1	74%	74%	70%	70%
BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME) vs RBOB GASOLINE FUTURES (NY-RB - CME)						
Spread Credit Rate	Decrease	+1:-1	72%	72%	67%	67%
BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME) vs SINGAPORE FUEL OIL 380 CST (PLATTS) SWAP FUTURES (NY-SE - CME)						
Spread Credit Rate	Decrease	+19:-3	85%	85%	81%	81%
BRENT CRUDE OIL PENULTIMATE FINANCIAL FUTURES (NY-BB - CME) vs EUROPEAN 1% FUEL OIL (PLATTS) BARGES FOB RDAM CALENDAR SWAP FUTURES (NY-UH - CME)						
Spread Credit Rate	Decrease	+33:-5	85%	85%	80%	80%
BRENT CRUDE OIL PENULTIMATE FINANCIAL FUTURES (NY-BB - CME) vs GULF COAST JET FUEL (PLATTS) CALENDAR SWAP FUTURES (NY-GE - CME)						
Spread Credit Rate	Increase	+1:-1	60%	60%	75%	75%
BRENT CRUDE OIL PENULTIMATE FINANCIAL FUTURES (NY-BB - CME) vs HEATING OIL CALENDAR SWAP FUTURES (NY-MP - CME)						
Spread Credit Rate	Increase	+1:-1	73%	73%	82%	82%
BRENT CRUDE OIL PENULTIMATE FINANCIAL FUTURES (NY-BB - CME) vs HEATING OIL FINANCIAL FUTURES (NY-BH - CME)						
Spread Credit Rate	Increase	+1:-1	70%	70%	77%	77%
Spread Credit Rate	Increase	+1:-1	73%	73%	82%	82%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
BRENT CRUDE OIL PENULTIMATE FINANCIAL FUTURES (NY-BB - CME) vs HEATING OIL LAST DAY FINANCIAL FUTURES (NY-23 - CME)						
Spread Credit Rate	Increase	+1:-1	70%	70%	77%	77%
Spread Credit Rate	Increase	+1:-1	73%	73%	82%	82%
BRENT CRUDE OIL PENULTIMATE FINANCIAL FUTURES (NY-BB - CME) vs RBOB GASOLINE FUTURES (NY-RB - CME)						
Spread Credit Rate	Decrease	+1:-1	74%	74%	70%	70%
Spread Credit Rate	Decrease	+1:-1	72%	72%	67%	67%
CHICAGO ULSD (PLATTS) SWAP FUTURES (NY-4C - CME) vs GULF COAST JET FUEL (PLATTS) CALENDAR SWAP FUTURES (NY-GE - CME)						
Spread Credit Rate	Increase	+1:-1	70%	70%	87%	87%
CRUDE OIL FINANCIAL FUTURES (NY-WS - CME) vs 1% FUEL OIL (PLATTS) CARGOES CIF MED SWAP FUTURES (NY-1W - CME)						
Spread Credit Rate	Increase	+19:-3	60%	60%	80%	80%
CRUDE OIL FINANCIAL FUTURES (NY-WS - CME) vs GULF COAST JET FUEL (PLATTS) CALENDAR SWAP FUTURES (NY-GE - CME)						
Spread Credit Rate	Increase	+1:-1	60%	60%	70%	70%
CRUDE OIL FINANCIAL FUTURES (NY-WS - CME) vs GULF COAST NO. 6 FUEL OIL 3.0% (PLATTS) SWAP FUTURES (NY-MF - CME)						
Spread Credit Rate	New	+1:-1			85%	85%
CRUDE OIL FINANCIAL FUTURES (NY-WS - CME) vs RBOB GASOLINE CALENDAR SWAP FUTURES (NY-RL - CME)						
Spread Credit Rate	Decrease	+1:-1	70%	70%	65%	65%
Spread Credit Rate	Decrease	+1:-1	79%	79%	76%	76%
CRUDE OIL FINANCIAL FUTURES (NY-WS - CME) vs RBOB GASOLINE FINANCIAL FUTURES (NY-RT - CME)						
Spread Credit Rate	Decrease	+1:-1	75%	75%	70%	70%
Spread Credit Rate	Decrease	+1:-1	79%	79%	76%	76%
CRUDE OIL FINANCIAL FUTURES (NY-WS - CME) vs RBOB GASOLINE FUTURES (NY-RB - CME)						
Spread Credit Rate	Decrease	+1:-1	68%	68%	65%	65%
Spread Credit Rate	Decrease	+1:-1	79%	79%	76%	76%
CRUDE OIL FINANCIAL FUTURES (NY-WS - CME) vs SINGAPORE GASOIL (PLATTS) SWAP FUTURES (NY-SG - CME)						
Spread Credit Rate	Decrease	+1:-1	70%	70%	60%	60%
CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-26 - CME) vs 1% FUEL OIL (PLATTS) CARGOES CIF MED SWAP FUTURES (NY-1W - CME)						
Spread Credit Rate	Increase	+19:-3	60%	60%	80%	80%
CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-26 - CME) vs GULF COAST JET FUEL (PLATTS) CALENDAR SWAP FUTURES (NY-GE - CME)						
Spread Credit Rate	Increase	+1:-1	60%	60%	70%	70%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-26 - CME) vs GULF COAST NO. 6 FUEL OIL 3.0% (PLATTS) SWAP FUTURES (NY-MF - CME)						
Spread Credit Rate	New	+1:-1			85%	85%
CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-26 - CME) vs SINGAPORE GASOIL (PLATTS) SWAP FUTURES (NY-SG - CME)						
Spread Credit Rate	Decrease	+1:-1	70%	70%	60%	60%
DATED BRENT (PLATTS) CALENDAR SWAP FUTURES (NY-UB - CME) vs SINGAPORE MOGAS 95 UNLEADED (PLATTS) SWAP FUTURES (NY-V0 - CME)						
Spread Credit Rate	Increase	+1:-1	50%	50%	70%	70%
DUBAI CRUDE OIL (PLATTS) CALENDAR SWAP FUTURES (NY-DC - CME) vs LOS ANGELES CARB DIESEL (OPIS) OUTRIGHT SWAP FUTURES (NY-LX - CME)						
Spread Credit Rate	Increase	+1:-1	50%	50%	65%	65%
DUBAI CRUDE OIL (PLATTS) CALENDAR SWAP FUTURES (NY-DC - CME) vs SINGAPORE GASOIL (PLATTS) SWAP FUTURES (NY-SG - CME)						
Spread Credit Rate	New	+1:-1			60%	60%
DUBAI CRUDE OIL CALENDAR SWAP (NYM-DC - CME) vs SINGAPORE GASOIL SWAP (NYM-SG - CME)						
Spread Credit Rate	Increase	+1:-1	50%	50%	60%	60%
EIA FLAT TAX ON-HIGHWAY DIESEL SWAP FUTURES (NY-A5 - CME) vs DUBAI CRUDE OIL (PLATTS) CALENDAR SWAP FUTURES (NY-DC - CME)						
Spread Credit Rate	Increase	+1:-1	60%	60%	70%	70%
EIA FLAT TAX ON-HIGHWAY DIESEL SWAP FUTURES (NY-A5 - CME) vs HEATING OIL CALENDAR SWAP FUTURES (NY-MP - CME)						
Spread Credit Rate	Increase	+1:-1	65%	65%	75%	75%
EIA FLAT TAX ON-HIGHWAY DIESEL SWAP FUTURES (NY-A5 - CME) vs NEW YORK HARBOR NO. 2 HEATING OIL FUTURES (NY-HO, BH, MP)						
Spread Credit Rate	Increase	+1:-1	65%	65%	75%	75%
EIA FLAT TAX ON-HIGHWAY DIESEL SWAP FUTURES (NY-A5) vs. SINGAPORE JET KEROSENE (PLATTS) SWAP FUTURES (NY-KS)						
Spread Credit Rate	Increase	+1:-1	50%	50%	65%	65%
Spread Credit Rate	Increase	+1:-1	50%	50%	65%	65%
EIA FLAT TAX ONHWAY DIESEL SWP (NY-A5) vs NY 3.0% FUEL OIL (PLATTS) SWP (NY-H1)						
Spread Credit Rate	Increase	+1:-1	50%	50%	65%	65%
EIA FLAT TAX ONHWAY DIESEL SWP (NY-A5) vs SINGAPORE 380CST FUEL OIL SWAP (NY-SE)						
Spread Credit Rate	Increase	+15:-2	50%	50%	60%	60%
Spread Credit Rate	Increase	+15:-2	50%	50%	60%	60%
EUROPEAN 1% FUEL OIL (PLATTS) BARGES FOB RDAM CALENDAR SWAP FUTURES (NY-UH - CME) vs DUBAI CRUDE OIL (PLATTS) CALENDAR SWAP FUTURES (NY-DC - CME)						
Spread Credit Rate	Increase	+3:-19	65%	65%	85%	85%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
EUROPEAN 1% FUEL OIL (PLATTS) BARGES FOB RDAM CALENDAR SWAP FUTURES (NY-UH - CME) vs EUROPEAN 3.5% FUEL OIL (PLATTS) CARGOES FOB MED CALENDAR SWAP FUTURES (NY-UI - CME)						
Spread Credit Rate	Increase	+1:-1	65%	65%	90%	90%
EUROPEAN 1% FUEL OIL (PLATTS) BARGES FOB RDAM CALENDAR SWAP FUTURES (NY-UH - CME) vs GULF COAST NO. 6 FUEL OIL 3.0% (PLATTS) SWAP FUTURES (NY-MF - CME)						
Spread Credit Rate	Increase	+2:-15	70%	70%	90%	90%
EUROPEAN 1% FUEL OIL (PLATTS) BARGES FOB RDAM CALENDAR SWAP FUTURES (NY-UH - CME) vs LIGHT SWEET CRUDE OIL FUTURES (NY-CL - CME)						
Spread Credit Rate	Increase	+5:-33	60%	60%	80%	80%
EUROPEAN 1% FUEL OIL (PLATTS) BARGES FOB RDAM CALENDAR SWAP FUTURES (NY-UH - CME) vs WTI CALENDAR SWAP FUTURES (NY-CS - CME)						
Spread Credit Rate	Increase	+5:-33	60%	60%	80%	80%
EUROPEAN 1% FUEL OIL (PLATTS) BARGES FOB RDAM CALENDAR SWAP FUTURES (NY-UH - CME) vs WTI CALENDAR SWAP FUTURES (NY-CS - CME).						
Spread Credit Rate	Increase	+5:-33	60%	60%	80%	80%
EUROPEAN 1% FUEL OIL CARGOES FOB MED (PLATTS) SWAP FUTURES (NY-EFM - CME) vs EUROPEAN 1% FUEL OIL (PLATTS) BARGES FOB RDAM CALENDAR SWAP FUTURES (NY-UH - CME)						
Spread Credit Rate	Increase	+1:-1	45%	45%	90%	90%
EUROPEAN 1% FUEL OIL ROTTERDAM CALENDAR SWAP (NYM-UH - CME) vs EUROPEAN 3.5% FUEL OIL MED CALENDAR SWAP (MEDITERR (NYM-UI - CME)						
Spread Credit Rate	Increase	+1:-1	65%	65%	90%	90%
EUROPEAN 3.5% FUEL OIL (PLATTS) BARGES FOB RDAM CALENDAR SWAP FUTURES (NY-UV - CME) vs LIGHT SWEET CRUDE OIL FUTURES (NY-CL - CME)						
Spread Credit Rate	New	+5:-33			85%	85%
EUROPEAN 3.5% FUEL OIL (PLATTS) BARGES FOB RDAM CALENDAR SWAP FUTURES (NY-UV - CME) vs SINGAPORE GASOIL (PLATTS) SWAP FUTURES (NY-SG - CME)						
Spread Credit Rate	New	+1:-1			45%	45%
EUROPEAN 3.5% FUEL OIL (PLATTS) BARGES FOB RDAM CALENDAR SWAP FUTURES (NY-UV - CME) vs WTI CALENDAR SWAP FUTURES (NY-CS - CME)						
Spread Credit Rate	New	+5:-33			85%	85%
EUROPEAN 3.5% FUEL OIL ROTTERDAM BALMO CALENDAR SWAP (NYM-UV - CME) vs SINGAPORE 380CST FUEL OIL (PLATTS) SWAP (NYM-SE - CME)						
Spread Credit Rate	Decrease	+1:-1	94%	94%	90%	90%
EUROPEAN NAPHTHA (PLATTS) CALENDAR SWAP FUTURES (NY-UN - CME) vs DUBAI CRUDE OIL (PLATTS) CALENDAR SWAP FUTURES (NY-DC - CME)						
Spread Credit Rate	Increase	+1:-9	60%	60%	75%	75%
EUROPEAN NAPHTHA (PLATTS) CALENDAR SWAP FUTURES (NY-UN - CME) vs GULF COAST JET FUEL (PLATTS) CALENDAR SWAP FUTURES (NY-GE - CME)						
Spread Credit Rate	Increase	+2:-15	60%	60%	75%	75%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
EUROPEAN NAPHTHA (PLATTS) CALENDAR SWAP FUTURES (NY-UN - CME) vs SINGAPORE JET KEROSENE (PLATTS) SWAP FUTURES (NY-KS - CME)						
Spread Credit Rate	Increase	+2:-15	50%	50%	60%	60%
GASOLINE EURO-BOB OXY (ARGUS) NWE BARGES SWAP FUTURES (NY-7H - CME) vs EUROPEAN 3.5% FUEL OIL (PLATTS) BARGES FOB RDAM CALENDAR SWAP FUTURES (NY-UV - CME)						
Spread Credit Rate	Decrease	+1:-1	70%	70%	55%	55%
GASOLINE EURO-BOB OXY (ARGUS) NWE BARGES SWAP FUTURES (NY-7H - CME) vs EUROPEAN 3.5% FUEL OIL (PLATTS) CARGOES FOB MED CALENDAR SWAP FUTURES (NY-UI - CME)						
Spread Credit Rate	Decrease	+1:-1	70%	70%	55%	55%
GASOLINE EURO-BOB OXY (ARGUS) NWE BARGES SWAP FUTURES (NY-7H - CME) vs SINGAPORE FUEL OIL 180 CST (PLATTS) CALENDAR SWAP FUTURES (NY-UA - CME)						
Spread Credit Rate	Decrease	+1:-1	70%	70%	55%	55%
GASOLINE EURO-BOB OXY (ARGUS) NWE BARGES SWAP FUTURES (NY-7H - CME) vs SINGAPORE GASOIL (PLATTS) SWAP FUTURES (NY-SG - CME)						
Spread Credit Rate	Increase	+2:-15	50%	50%	60%	60%
GASOLINE EURO-BOB OXY (ARGUS) NWE BARGES SWAP FUTURES (NY-7H - CME) vs SINGAPORE JET KEROSENE (PLATTS) SWAP FUTURES (NY-KS - CME)						
Spread Credit Rate	Increase	+2:-15	45%	45%	55%	55%
GULF COAST JET FUEL (PLATTS) CALENDAR SWAP FUTURES (NY-GE - CME) vs BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME)						
Spread Credit Rate	Increase	+1:-1	60%	60%	75%	75%
GULF COAST JET FUEL (PLATTS) CALENDAR SWAP FUTURES (NY-GE - CME) vs BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME)						
Spread Credit Rate	Increase	+1:-1	60%	60%	75%	75%
GULF COAST JET FUEL (PLATTS) CALENDAR SWAP FUTURES (NY-GE - CME) vs BRENT CRUDE OIL PENULTIMATE FINANCIAL FUTURES (NY-BB - CME)						
Spread Credit Rate	Increase	+1:-1	60%	60%	75%	75%
GULF COAST JET FUEL (PLATTS) CALENDAR SWAP FUTURES (NY-GE - CME) vs DATED BRENT (PLATTS) CALENDAR SWAP FUTURES (NY-UB - CME)						
Spread Credit Rate	Increase	+1:-1	60%	60%	75%	75%
GULF COAST JET FUEL (PLATTS) CALENDAR SWAP FUTURES (NY-GE - CME) vs HEATING OIL CALENDAR SWAP FUTURES (NY-MP - CME)						
Spread Credit Rate	Increase	+1:-1	75%	75%	80%	80%
GULF COAST JET FUEL (PLATTS) CALENDAR SWAP FUTURES (NY-GE - CME) vs NEW YORK HARBOR NO. 2 HEATING OIL FUTURES (NY-HO, BH, MP)						
Spread Credit Rate	Increase	+1:-1	70%	70%	80%	80%
GULF COAST JET FUEL (PLATTS) CALENDAR SWAP FUTURES (NY-GE - CME) vs NEW YORK HARBOR NO. 2 HEATING OIL FUTURES (NY-HO, MP, BH)						
Spread Credit Rate	Increase	+1:-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						
GULF COAST ULSD (PLATTS) SWAP FUTURES (NY-LY - CME) vs SINGAPORE JET KEROSENE (PLATTS) SWAP FUTURES (NY-KS - CME)						
Spread Credit Rate	Increase	+1:-1	46%	46%	60%	60%
GULF COAST ULSD CALENDAR SWAP (NY-LY) vs NY HARBOR RESIDUAL FUEL 1.0% S (NY-MM)						
Spread Credit Rate	Increase	+1:-1	55%	55%	70%	70%
HEATING OIL CALENDAR SWAP FUTURES (NY-MP - CME) vs DUBAI CRUDE OIL (PLATTS) CALENDAR SWAP FUTURES (NY-DC - CME)						
Spread Credit Rate	Increase	+1:-1	50%	50%	80%	80%
HEATING OIL CALENDAR SWAP FUTURES (NY-MP - CME) vs SINGAPORE GASOIL (PLATTS) SWAP FUTURES (NY-SG - CME)						
Spread Credit Rate	Increase	+1:-1	50%	50%	65%	65%
HEATING OIL FINANCIAL FUTURES (NY-BH - CME) vs GULF COAST JET FUEL (PLATTS) CALENDAR SWAP FUTURES (NY-GE - CME)						
Spread Credit Rate	Increase	+1:-1	70%	70%	80%	80%
HEATING OIL FINANCIAL FUTURES (NYM-HO, BH, MP) vs DUBAI CRUDE OIL CALENDAR SWAP (NYM-DC - CME)						
Spread Credit Rate	Increase	+1:-1	70%	70%	80%	80%
HEATING OIL LAST DAY FINANCIAL FUTURES (NY-23 - CME) vs GULF COAST JET FUEL (PLATTS) CALENDAR SWAP FUTURES (NY-GE - CME)						
Spread Credit Rate	Increase	+1:-1	75%	75%	80%	80%
HEATING OIL LAST DAY FINANCIAL FUTURES (NY-23 - CME) vs RBOB GASOLINE CALENDAR SWAP FUTURES (NY-RL - CME)						
Spread Credit Rate	Increase	+1:-1	75%	75%	80%	80%
HEATING OIL LAST DAY FINANCIAL FUTURES (NY-23 - CME) vs RBOB GASOLINE FINANCIAL FUTURES (NY-RT - CME)						
Spread Credit Rate	Increase	+1:-1	75%	75%	80%	80%
HEATING OIL LAST DAY FINANCIAL FUTURES (NY-23 - CME) vs RBOB GASOLINE FUTURES (NY-RB - CME)						
Spread Credit Rate	Increase	+1:-1	75%	75%	80%	80%
HEATING OIL LAST DAY FINANCIAL FUTURES (NY-23 - CME) vs RBOB GASOLINE LAST DAY FINANCIAL FUTURES (NY-27 - CME)						
Spread Credit Rate	Increase	+1:-1	75%	75%	80%	80%
HEATING OIL LAST DAY FINANCIAL FUTURES (NY-23 - CME) vs SINGAPORE GASOIL (PLATTS) SWAP FUTURES (NY-SG - CME)						
Spread Credit Rate	Increase	+1:-1	50%	50%	65%	65%
JAPAN C&F NAPHTHA (PLATTS) SWAP FUT (NY-JA) vs. EIA FLAT TAX ON-HIGHWAY DIESEL SWAP FUT (NY-A5)						
Spread Credit Rate	Increase	+1:-9	55%	55%	65%	65%
JAPAN C&F NAPHTHA (PLATTS) SWAP FUTURES (NY-JA - CME) vs GULF COAST JET FUEL (PLATTS) CALENDAR SWAP FUTURES (NY-GE - CME)						
Spread Credit Rate	Increase	+2:-15	60%	60%	70%	70%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
JAPAN C&F NAPHTHA (PLATTS) SWAP FUTURES (NY-JA - CME) vs SINGAPORE JET KEROSENE (PLATTS) SWAP FUTURES (NY-KS - CME)						
Spread Credit Rate	Increase	+2:-15	40%	40%	55%	55%
JAPAN C&F NAPHTHA (PLATTS) SWAP FUTURES (NY-UV - CME) vs GULF COAST NO. 6 FUEL OIL 3.0% (PLATTS) SWAP FUTURES (NY-KS - CME)						
Spread Credit Rate	Increase	+2:-15	35%	35%	60%	60%
LA CARB DIESEL (OPIS) (NY-LX) vs NY HARBOR RESIDUAL FUEL 1.0% S (NY-MM)						
Spread Credit Rate	Increase	+1:-1	55%	55%	70%	70%
LIGHT SWEET CRUDE OIL FUTURES (NY-CL - CME) vs GULF COAST NO. 6 FUEL OIL 3.0% (PLATTS) SWAP FUTURES (NY-MF - CME)						
Spread Credit Rate	New	+1:-1			85%	85%
LIGHT SWEET CRUDE OIL FUTURES (NY-CL - CME) vs RBOB GASOLINE FINANCIAL FUTURES (NY-RT - CME)						
Spread Credit Rate	Decrease	+1:-1	75%	75%	70%	70%
Spread Credit Rate	Decrease	+1:-1	79%	79%	76%	76%
LIGHT SWEET CRUDE OIL FUTURES (NY-CL, CS, WS) vs GULF COAST JET FUEL (PLATTS) CALENDAR SWAP FUTURES (NY-GE - CME)						
Spread Credit Rate	Increase	+1:-1	60%	60%	70%	70%
LIGHT, SWEET CRUDE OIL FUTURES (NYM-CL, CS, WS) vs GULF COAST #6 FUEL 3.0% SWAP (NYM-MF - CME)						
Spread Credit Rate	Increase	+1:-1	70%	70%	85%	85%
LIGHT, SWEET CRUDE OIL FUTURES (NYM-CL, CS, WS) vs SINGAPORE GASOIL SWAP (NYM-SG - CME)						
Spread Credit Rate	Decrease	+1:-1	70%	70%	60%	60%
NEW YORK HARBOR NO. 2 HEATING OIL FUTURES (NY-HO - CME) vs SINGAPORE GASOIL (PLATTS) SWAP FUTURES (NY-SG - CME)						
Spread Credit Rate	Increase	+1:-1	50%	50%	65%	65%
NEW YORK HARBOR NO. 2 HEATING OIL FUTURES (NY-HO - CME) vs SINGAPORE MOGAS 92 UNLEADED (PLATTS) SWAP FUTURES (NY-1N - CME)						
Spread Credit Rate	Increase	+1:-1	60%	60%	70%	70%
NEW YORK HARBOR RESIDUAL FUEL 1.0% (PLATTS) SWAP FUTURES (NY-MM - CME) vs EUROPEAN 1% FUEL OIL (PLATTS) BARGES FOB RDAM CALENDAR SWAP FUTURES (NY-UH - CME)						
Spread Credit Rate	New	+7:-1			90%	90%
NEW YORK HARBOR RESIDUAL FUEL 1.0% (PLATTS) SWAP FUTURES (NY-MM - CME) vs SINGAPORE JET KEROSENE (PLATTS) SWAP FUTURES (NY-KS - CME)						
Spread Credit Rate	Increase	+1:-1	50%	50%	60%	60%
NY 2.2% FUEL OIL (PLATTS) SWAP FUTURES (NY-MM - CME) vs SINGAPORE MOGAS 92 UNLEADED (PLATTS) SWAP FUTURES (NY-1N - CME)						
Spread Credit Rate	Decrease	+1:-1	70%	70%	60%	60%
NY 3.0% FUEL OIL (PLATTS) SWAP FUTURES (NY-H1 - CME) vs SINGAPORE JET KEROSENE (PLATTS) SWAP FUTURES (NY-KS - CME)						
Spread Credit Rate	Increase	+1:-1	50%	50%	60%	60%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
NY HARBOR RBOB (BLENDSTOCK) GAS (NYM-RB, RT, RL) vs EUROPEAN GASOIL (ICE) CALENDAR SWAP (NYM-GX - CME)						
Spread Credit Rate	Increase	+2:-15	60%	60%	70%	70%
NY HARBOR RBOB GASOLINE (NYM-RB, RL, RT) vs HEATING OIL FINANCIAL FUTURES (NYM-HO, BH, MP)						
Spread Credit Rate	Increase	+1:-1	75%	75%	80%	80%
NY HARBOR RBOB GASOLINE (NYM-RB, RL, RT) vs LIGHT, SWEET CRUDE OIL FUTURES (NYM-CL, CS, WS)						
Spread Credit Rate	Decrease	+1:-1	79%	79%	76%	76%
Spread Credit Rate	Decrease	+1:-1	68%	68%	65%	65%
NY HARBOR ULSD VS. LOW SULPHUR GASOIL (1,000BBL) FUTURES (NY-NLS - CME) vs NEW YORK HARBOR NO. 2 HEATING OIL FUTURES (NY-HO - CME)						
Spread Credit Rate	Increase	+1:-1	35%	35%	45%	45%
NY-3G - PREMIUM UNLD 10P FOB MED SWP vs NY-SG - SINGAPORE GASOIL SWAP						
Spread Credit Rate	Increase	+1:-1	50%	50%	60%	60%
PREMIUM UNLEADED GASOLINE 10 PPM (PLATTS) FOB MED SWAP FUTURES (NY-3G - CME) vs DUBAI CRUDE OIL (PLATTS) CALENDAR SWAP FUTURES (NY-DC - CME)						
Spread Credit Rate	Increase	+3:-25	60%	60%	75%	75%
PREMIUM UNLEADED GASOLINE 10 PPM (PLATTS) FOB MED SWAP FUTURES (NY-3G - CME) vs SINGAPORE JET KEROSENE (PLATTS) SWAP FUTURES (NY-KS - CME)						
Spread Credit Rate	Increase	+2:-15	40%	40%	60%	60%
RBOB GASOLINE CALENDAR SWAP FUTURES (NY-RL - CME) vs BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME)						
Spread Credit Rate	Decrease	+1:-1	74%	74%	70%	70%
RBOB GASOLINE CALENDAR SWAP FUTURES (NY-RL - CME) vs BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME)						
Spread Credit Rate	Decrease	+1:-1	74%	74%	70%	70%
RBOB GASOLINE CALENDAR SWAP FUTURES (NY-RL - CME) vs EUROPEAN GASOIL (ICE) SWAP FUTURES (NY-GX - CME)						
Spread Credit Rate	Increase	+2:-15	60%	60%	70%	70%
RBOB GASOLINE CALENDAR SWAP FUTURES (NY-RL - CME) vs EUROPEAN GASOIL BULLET SWAP FUTURES (NY-BG - CME)						
Spread Credit Rate	Increase	+2:-15	60%	60%	70%	70%
RBOB GASOLINE CALENDAR SWAP FUTURES (NY-RL - CME) vs HEATING OIL CALENDAR SWAP FUTURES (NY-MP - CME)						
Spread Credit Rate	Increase	+1:-1	75%	75%	80%	80%
RBOB GASOLINE CALENDAR SWAP FUTURES (NY-RL - CME) vs LIGHT SWEET CRUDE OIL FUTURES (NY-CL - CME)						
Spread Credit Rate	Decrease	+1:-1	79%	79%	76%	76%
RBOB GASOLINE CALENDAR SWAP FUTURES (NY-RL - CME) vs NEW YORK HARBOR NO. 2 HEATING OIL FUTURES (NY-HO - CME)						
Spread Credit Rate	Increase	+1:-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						
RBOB GASOLINE CALENDAR SWAP FUTURES (NY-RL - CME) vs WTI CALENDAR SWAP FUTURES (NY-CS - CME)						
Spread Credit Rate	Decrease	+1:-1	79%	79%	76%	76%
Spread Credit Rate	Decrease	+1:-1	70%	70%	65%	65%
RBOB GASOLINE FINANCIAL FUTURES (NY-RT - CME) vs EUROPEAN GASOIL (ICE) SWAP FUTURES (NY-GX - CME)						
Spread Credit Rate	Increase	+2:-15	60%	60%	70%	70%
RBOB GASOLINE FUTURES (NY-27 - CME) vs 1% FUEL OIL (PLATTS) CARGOES CIF MED SWAP FUTURES (NY-1W - CME)						
Spread Credit Rate	Decrease	+19:-3	70%	70%	65%	65%
RBOB GASOLINE FUTURES (NY-27 - CME) vs EUROPEAN 1% FUEL OIL (PLATTS) CARGOES FOB NWE CALENDAR SWAP FUTURES (NY-UF - CME)						
Spread Credit Rate	Decrease	+15:-2	70%	70%	65%	65%
RBOB GASOLINE FUTURES (NY-27 - CME) vs SINGAPORE FUEL OIL 180 CST (PLATTS) CALENDAR SWAP FUTURES (NY-UA - CME)						
Spread Credit Rate	Decrease	+15:-2	70%	70%	65%	65%
RBOB GASOLINE FUTURES (NY-RB - CME) vs 1% FUEL OIL (PLATTS) CARGOES CIF MED SWAP FUTURES (NY-1W - CME)						
Spread Credit Rate	Decrease	+19:-3	70%	70%	65%	65%
RBOB GASOLINE FUTURES (NY-RB - CME) vs 1% FUEL OIL (PLATTS) CARGOES CIF MED SWAP FUTURES (NY-UF - CME)						
Spread Credit Rate	Decrease	+15:-2	70%	70%	65%	65%
RBOB GASOLINE FUTURES (NY-RB - CME) vs EUROPEAN GASOIL BULLET SWAP FUTURES (NY-BG - CME)						
Spread Credit Rate	Increase	+2:-15	60%	60%	70%	70%
RBOB GASOLINE FUTURES (NY-RB - CME) vs HEATING OIL CALENDAR SWAP FUTURES (NY-MP - CME)						
Spread Credit Rate	Increase	+1:-1	75%	75%	80%	80%
RBOB GASOLINE FUTURES (NY-RB - CME) vs SINGAPORE FUEL OIL 180 CST (PLATTS) CALENDAR SWAP FUTURES (NY-UA - CME)						
Spread Credit Rate	Decrease	+15:-2	70%	70%	65%	65%
RBOB GASOLINE FUTURES (NY-RB - CME) vs WTI CALENDAR SWAP FUTURES (NY-CS - CME)						
Spread Credit Rate	Decrease	+1:-1	79%	79%	76%	76%
Spread Credit Rate	Decrease	+1:-1	68%	68%	65%	65%
RBOB GASOLINE FUTURES (NY-RB, RL, RT) vs EUROPEAN GASOIL (ICE) SWAP FUTURES (NY-GX, BG)						
Spread Credit Rate	Increase	+2:-15	60%	60%	70%	70%
RBOB GASOLINE FUTURES (NY-RL - CME) vs 1% FUEL OIL (PLATTS) CARGOES CIF MED SWAP FUTURES (NY-1W - CME)						
Spread Credit Rate	Decrease	+19:-3	70%	70%	65%	65%
RBOB GASOLINE FUTURES (NY-RL - CME) vs EUROPEAN 1% FUEL OIL (PLATTS) CARGOES FOB NWE CALENDAR SWAP FUTURES (NY-UF - CME)						
Spread Credit Rate	Decrease	+15:-2	70%	70%	65%	65%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
RBOB GASOLINE FUTURES (NY-RL - CME) vs SINGAPORE FUEL OIL 180 CST (PLATTS) CALENDAR SWAP FUTURES (NY-UA - CME)						
Spread Credit Rate	Decrease	+15:-2	70%	70%	65%	65%
RBOB GASOLINE FUTURES (NY-RT - CME) vs 1% FUEL OIL (PLATTS) CARGOES CIF MED SWAP FUTURES (NY-1W - CME)						
Spread Credit Rate	Decrease	+19:-3	70%	70%	65%	65%
RBOB GASOLINE FUTURES (NY-RT - CME) vs EUROPEAN 1% FUEL OIL (PLATTS) CARGOES FOB NWE CALENDAR SWAP FUTURES (NY-UF - CME)						
Spread Credit Rate	Decrease	+15:-2	70%	70%	65%	65%
RBOB GASOLINE FUTURES (NY-RT - CME) vs SINGAPORE FUEL OIL 180 CST (PLATTS) CALENDAR SWAP FUTURES (NY-UA - CME)						
Spread Credit Rate	Decrease	+15:-2	70%	70%	65%	65%
RBOB GASOLINE LAST DAY FINANCIAL FUTURES (NY-27 - CME) vs BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME)						
Spread Credit Rate	Decrease	+1:-1	72%	72%	67%	67%
RBOB GASOLINE LAST DAY FINANCIAL FUTURES (NY-27 - CME) vs BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME)						
Spread Credit Rate	Decrease	+1:-1	74%	74%	70%	70%
Spread Credit Rate	Decrease	+1:-1	72%	72%	67%	67%
RBOB GASOLINE LAST DAY FINANCIAL FUTURES (NY-27 - CME) vs BRENT CRUDE OIL PENULTIMATE FINANCIAL FUTURES (NY-BB - CME)						
Spread Credit Rate	Decrease	+1:-1	74%	74%	70%	70%
Spread Credit Rate	Decrease	+1:-1	72%	72%	67%	67%
RBOB GASOLINE LAST DAY FINANCIAL FUTURES (NY-27 - CME) vs EUROPEAN 1% FUEL OIL (PLATTS) CARGOES FOB NWE CALENDAR SWAP FUTURES (NY-UF - CME)						
Spread Credit Rate	Decrease	+15:-2	70%	70%	65%	65%
RBOB GASOLINE LAST DAY FINANCIAL FUTURES (NY-27 - CME) vs EUROPEAN GASOIL (ICE) SWAP FUTURES (NY-GX - CME)						
Spread Credit Rate	Increase	+2:-15	60%	60%	70%	70%
SINGAPORE FUEL OIL 180 CST (PLATTS) CALENDAR SWAP FUTURES (NY-UA - CME) vs SINGAPORE JET KEROSENE (PLATTS) SWAP FUTURES (NY-KS - CME)						
Spread Credit Rate	Increase	+2:-15	40%	40%	55%	55%
SINGAPORE FUEL OIL 380 CST (PLATTS) SWAP FUTURES (NY-SE - CME) vs HEATING OIL CALENDAR SWAP FUTURES (NY-MP - CME)						
Spread Credit Rate	Decrease	+2:-15	40%	40%	30%	30%
SINGAPORE FUEL OIL 380 CST (PLATTS) SWAP FUTURES (NY-SE - CME) vs HEATING OIL FINANCIAL FUTURES (NY-BH - CME)						
Spread Credit Rate	Decrease	+2:-15	40%	40%	30%	30%
SINGAPORE FUEL OIL 380 CST (PLATTS) SWAP FUTURES (NY-SE - CME) vs HEATING OIL LAST DAY FINANCIAL FUTURES (NY-23 - CME)						
Spread Credit Rate	Decrease	+2:-15	40%	40%	30%	30%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
SINGAPORE FUEL OIL 380 CST (PLATTS) SWAP FUTURES (NY-SE - CME) vs NEW YORK HARBOR NO. 2 HEATING OIL FUTURES (NY-HO - CME)						
Spread Credit Rate	Decrease	+2:-15	40%	40%	30%	30%
SINGAPORE GASOIL (PLATTS) SWAP FUTURES (NY-SG - CME) vs GULF COAST NO. 6 FUEL OIL 3.0% (PLATTS) SWAP FUTURES (NY-MF - CME)						
Spread Credit Rate	Increase	+1:-1	40%	40%	60%	60%
SINGAPORE GASOIL (PLATTS) SWAP FUTURES (NY-SG - CME) vs RBOB GASOLINE FUTURES (NY-27 - CME)						
Spread Credit Rate	Increase	+1:-1	55%	55%	65%	65%
SINGAPORE GASOIL (PLATTS) SWAP FUTURES (NY-SG - CME) vs RBOB GASOLINE FUTURES (NY-RB - CME)						
Spread Credit Rate	Increase	+1:-1	55%	55%	65%	65%
SINGAPORE GASOIL (PLATTS) SWAP FUTURES (NY-SG - CME) vs RBOB GASOLINE FUTURES (NY-RL - CME)						
Spread Credit Rate	Increase	+1:-1	55%	55%	65%	65%
SINGAPORE GASOIL (PLATTS) SWAP FUTURES (NY-SG - CME) vs RBOB GASOLINE FUTURES (NY-RT - CME)						
Spread Credit Rate	Increase	+1:-1	55%	55%	65%	65%
SINGAPORE GASOIL (PLATTS) SWAP FUTURES (NY-SG - CME) vs SINGAPORE FUEL OIL 180 CST (PLATTS) CALENDAR SWAP FUTURES (NY-UA - CME)						
Spread Credit Rate	Increase	+19:-3	50%	50%	60%	60%
SINGAPORE GASOIL (PLATTS) SWAP FUTURES (NY-SG - CME) vs SINGAPORE FUEL OIL 380 CST (PLATTS) SWAP FUTURES (NY-SE - CME)						
Spread Credit Rate	Increase	+3:-19	50%	50%	60%	60%
SINGAPORE GASOIL (PLATTS) SWAP FUTURES (NY-SG - CME) vs SINGAPORE MOGAS 92 UNLEADED (PLATTS) SWAP FUTURES (NY-1N - CME)						
Spread Credit Rate	Increase	+1:-1	50%	50%	60%	60%
SINGAPORE GASOIL SWAP (NYM-SG - CME) vs SINGAPORE 380CST FUEL OIL (PLATTS) SWAP (NYM-SE - CME)						
Spread Credit Rate	Increase	+3:-19	50%	50%	60%	60%
SINGAPORE GASOIL SWAP (NYM-SG - CME) vs SINGAPORE FUEL OIL 180CST CALENDAR SWAP (NYM-UA - CME)						
Spread Credit Rate	Increase	+19:-3	50%	50%	60%	60%
SINGAPORE GASOIL SWAP (NY-SG) vs NY 3.0% FUEL OIL (PLATTS) SWP (NY-H1)						
Spread Credit Rate	Increase	+1:-1	50%	50%	65%	65%
SINGAPORE JET KEROSENE (PLATTS) SWAP FUTURES (NY-KS - CME) vs DATED BRENT (PLATTS) CALENDAR SWAP FUTURES (NY-UB - CME)						
Spread Credit Rate	Increase	+1:-1	50%	50%	70%	70%
SINGAPORE JET KEROSENE (PLATTS) SWAP FUTURES (NY-KS - CME) vs GULF COAST JET FUEL (PLATTS) CALENDAR SWAP FUTURES (NY-GE - CME)						
Spread Credit Rate	Increase	+1:-1	52%	52%	60%	60%
SINGAPORE JET KEROSENE (PLATTS) SWAP FUTURES (NY-KS - CME) vs GULF COAST NO. 6 FUEL OIL 3.0% (PLATTS) SWAP FUTURES (NY-MF - CME)						
Spread Credit Rate	Increase	+1:-1	40%	40%	60%	60%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
SINGAPORE JET KEROSENE (PLATTS) SWAP FUTURES (NY-KS - CME) vs RBOB GASOLINE CALENDAR SWAP FUTURES (NY-RL - CME)						
Spread Credit Rate	Increase	+1:-1	50%	50%	65%	65%
SINGAPORE JET KEROSENE (PLATTS) SWAP FUTURES (NY-KS - CME) vs RBOB GASOLINE FINANCIAL FUTURES (NY-RT - CME)						
Spread Credit Rate	Increase	+1:-1	50%	50%	65%	65%
SINGAPORE JET KEROSENE (PLATTS) SWAP FUTURES (NY-KS - CME) vs RBOB GASOLINE FUTURES (NY-RB - CME)						
Spread Credit Rate	Increase	+1:-1	50%	50%	65%	65%
SINGAPORE JET KEROSENE (PLATTS) SWAP FUTURES (NY-KS - CME) vs RBOB GASOLINE LAST DAY FINANCIAL FUTURES (NY-27 - CME)						
Spread Credit Rate	Increase	+1:-1	50%	50%	65%	65%
SINGAPORE MOGAS 92 UNLEADED (PLATTS) SWAP FUTURES (NY-1N - CME) vs 1% FUEL OIL (PLATTS) CARGOES CIF MED SWAP FUTURES (NY-1W - CME)						
Spread Credit Rate	Decrease	+19:-3	70%	70%	60%	60%
SINGAPORE MOGAS 92 UNLEADED (PLATTS) SWAP FUTURES (NY-1N - CME) vs 1% FUEL OIL (PLATTS) CARGOES CIF MED SWAP FUTURES (NY-SE - CME)						
Spread Credit Rate	Decrease	+15:-2	70%	70%	60%	60%
SINGAPORE MOGAS 92 UNLEADED (PLATTS) SWAP FUTURES (NY-1N - CME) vs 1% FUEL OIL (PLATTS) CARGOES CIF MED SWAP FUTURES (NY-UF - CME)						
Spread Credit Rate	Decrease	+15:-2	70%	70%	60%	60%
SINGAPORE MOGAS 92 UNLEADED (PLATTS) SWAP FUTURES (NY-1N - CME) vs DUBAI CRUDE OIL (PLATTS) CALENDAR SWAP FUTURES (NY-DC - CME)						
Spread Credit Rate	Increase	+1:-1	60%	60%	75%	75%
SINGAPORE MOGAS 92 UNLEADED (PLATTS) SWAP FUTURES (NY-1N - CME) vs EUROPEAN 3.5% FUEL OIL (PLATTS) BARGES FOB RDAM CALENDAR SWAP FUTURES (NY-UV - CME)						
Spread Credit Rate	Decrease	+19:-3	70%	70%	60%	60%
SINGAPORE MOGAS 92 UNLEADED (PLATTS) SWAP FUTURES (NY-1N - CME) vs SINGAPORE FUEL OIL 380 CST (PLATTS) SWAP FUTURES (NY-UA - CME)						
Spread Credit Rate	Decrease	+15:-2	70%	70%	60%	60%
SINGAPORE MOGAS 95 UNLEADED (PLATTS) SWAP FUTURES (NY-V0 - CME) vs GULF COAST ULSD (PLATTS) SWAP FUTURES (NY-LY - CME)						
Spread Credit Rate	Increase	+1:-1	55%	55%	70%	70%
SINGAPORE MOGAS 95 UNLEADED (PLATTS) SWAP FUTURES (NY-V0 - CME) vs SINGAPORE MOGAS 92 UNLEADED (PLATTS) SWAP FUTURES (NY-1N - CME)						
Spread Credit Rate	New	+1:-1			90%	90%
WTI CALENDAR SWAP FUTURES (NY-CS - CME) vs GULF COAST JET FUEL (PLATTS) CALENDAR SWAP FUTURES (NY-GE - CME)						
Spread Credit Rate	Increase	+1:-1	60%	60%	70%	70%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
WTI CALENDAR SWAP FUTURES (NY-CS - CME) vs GULF COAST JET FUEL (PLATTS) CALENDAR SWAP FUTURES (NY-GE - CME).						
Spread Credit Rate	Increase	+1:-1	60%	60%	70%	70%
WTI CALENDAR SWAP FUTURES (NY-CS - CME) vs GULF COAST NO. 6 FUEL OIL 3.0% (PLATTS) SWAP FUTURES (NY-MF - CME)						
Spread Credit Rate	New	+1:-1			85%	85%
WTI CALENDAR SWAP FUTURES (NY-CS - CME) vs GULF COAST NO. 6 FUEL OIL 3.0% (PLATTS) SWAP FUTURES (NY-MF - CME).						
	Mths 5+					0.060
Spread Credit Rate	Increase	+1:-1	70%	70%	85%	85%
WTI CALENDAR SWAP FUTURES (NY-CS - CME) vs RBOB GASOLINE FINANCIAL FUTURES (NY-RT - CME)						
Spread Credit Rate	Decrease	+1:-1	79%	79%	76%	76%
WTI CALENDAR SWAP FUTURES (NY-CS - CME) vs SINGAPORE GASOIL (PLATTS) SWAP FUTURES (NY-SG - CME)						
Spread Credit Rate	Decrease	+1:-1	70%	70%	60%	60%
WTI CALENDAR SWAP FUTURES (NY-CS - CME) vs SINGAPORE GASOIL (PLATTS) SWAP FUTURES (NY-SG - CME).						
Spread Credit Rate	Decrease	+1:-1	70%	70%	60%	60%