



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

FROM: CME Clearing

SUBJECT: Performance Bond Requirements

DATE: Thursday, December 15, 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>

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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, December 16, 2016.

Current rates as of:

Thursday, December 15, 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								
CASH CHEESE FUTURES (CSC)								
CSC	Spec	Mnths 6+	Increase	USD	935	850	1,100	1,000
CSC	Hedge/Member	Mnths 6+	Increase	USD	850	850	1,000	1,000
CLASS III MILK FUTURES (DA)								
DA	Spec	Months 2-5	Increase	USD	1,430	1,300	1,650	1,500
DA	Hedge/Member	Months 2-5	Increase	USD	1,300	1,300	1,500	1,500
DA	Spec	Months 6+	Increase	USD	770	700	990	900
DA	Hedge/Member	Months 6+	Increase	USD	700	700	900	900
MLK MID FUTURES (JQ)								
JQ	Spec	Months 2-5	Increase	USD	715	650	825	750
JQ	Hedge/Member	Months 2-5	Increase	USD	650	650	750	750
JQ	Spec	Months 6+	Increase	USD	385	350	495	450
JQ	Hedge/Member	Months 6+	Increase	USD	350	350	450	450
S&P GSCI ENHANCED ER SWAP FUT (RRE)								
RRE	Spec		Decrease	USD	1,485	1,350	1,265	1,150
RRE	Hedge/Member		Decrease	USD	1,350	1,350	1,150	1,150

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
Outright Rates								
ELECTRICITY - Outright Rates								
AEP-DAYTON HUB OFF-PEAK MONTHLY (VP)								
VP	Spec	Mnths 3-11	Increase	USD	2,750	2,500	2,970	2,700
VP	Hedge/Member	Mnths 3-11	Increase	USD	2,500	2,500	2,700	2,700
MISO INDIANA HUB OFF-PEAK MO FUT (EJ)								
EJ	Spec	Mnth 2	Increase	USD	2,750	2,500	3,740	3,400
EJ	Hedge/Member	Mnth 2	Increase	USD	2,500	2,500	3,400	3,400
MISO INDIANA HUB PEAK MONTH FUT (EM)								
EM	Spec	Mnth 1	Increase	USD	3,850	3,500	4,620	4,200
EM	Hedge/Member	Mnth 1	Increase	USD	3,500	3,500	4,200	4,200
NEW ENGLAND HUB PEAK DAILY (CE)								
CE	Spec	Days 16+	Increase	USD	3,850	3,500	4,510	4,100
CE	Hedge/Member	Days 16+	Increase	USD	3,500	3,500	4,100	4,100
NEW YORK HUB ZONE J PEAK DAILY (JN)								
JN	Spec	Days 1-8	Increase	USD	3,850	3,500	4,950	4,500
JN	Hedge/Member	Days 1-8	Increase	USD	3,500	3,500	4,500	4,500
JN	Spec	Days 9-15	Increase	USD	3,850	3,500	4,950	4,500
JN	Hedge/Member	Days 9-15	Increase	USD	3,500	3,500	4,500	4,500
JN	Spec	Days 16+	Increase	USD	2,750	2,500	3,850	3,500
JN	Hedge/Member	Days 16+	Increase	USD	2,500	2,500	3,500	3,500
NYISO G (KG)								
KG	Spec	Mnth 1	Increase	USD	3,080	2,800	4,950	4,500
KG	Hedge/Member	Mnth 1	Increase	USD	2,800	2,800	4,500	4,500
KG	Spec	Mnth 2	Increase	USD	3,036	2,760	4,950	4,500
KG	Hedge/Member	Mnth 2	Increase	USD	2,760	2,760	4,500	4,500
KG	Spec	Mnths 3-4	Increase	USD	3,960	3,600	4,950	4,500
KG	Hedge/Member	Mnths 3-4	Increase	USD	3,600	3,600	4,500	4,500
NYISO J (KJ)								
KJ	Spec	Mnth 1	Increase	USD	3,300	3,000	4,950	4,500
KJ	Hedge/Member	Mnth 1	Increase	USD	3,000	3,000	4,500	4,500
KJ	Spec	Mnth 2	Increase	USD	3,300	3,000	4,950	4,500
KJ	Hedge/Member	Mnth 2	Increase	USD	3,000	3,000	4,500	4,500
KJ	Spec	Mnths 3-6	Increase	USD	3,300	3,000	4,400	4,000
KJ	Hedge/Member	Mnths 3-6	Increase	USD	3,000	3,000	4,000	4,000

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
Outright Rates								
NYISO J OFF-PEAK (KK)								
KK	Spec	Mnth 1	Increase	USD	4,620	4,200	6,600	6,000
KK	Hedge/Member	Mnth 1	Increase	USD	4,200	4,200	6,000	6,000
KK	Spec	Mnth 2	Increase	USD	4,510	4,100	6,600	6,000
KK	Hedge/Member	Mnth 2	Increase	USD	4,100	4,100	6,000	6,000
NYISO ZONE G 5MW D AH O PK (D2)								
D2	Spec	Mnths 12+	Increase	USD	22	20	33	30
D2	Hedge/Member	Mnths 12+	Increase	USD	20	20	30	30
NYISO ZONE G 5MW D AH PK (T3)								
T3	Spec	Mnth 1	Increase	USD	616	560	990	900
T3	Hedge/Member	Mnth 1	Increase	USD	560	560	900	900
T3	Spec	Mnth 2	Increase	USD	607	552	990	900
T3	Hedge/Member	Mnth 2	Increase	USD	552	552	900	900
T3	Spec	Mnths 3-4	Increase	USD	792	720	990	900
T3	Hedge/Member	Mnths 3-4	Increase	USD	720	720	900	900
NYISO ZONE J 5MW D AH PK (D3)								
D3	Spec	Mnth 1	Increase	USD	660	600	990	900
D3	Hedge/Member	Mnth 1	Increase	USD	600	600	900	900
D3	Spec	Mnth 2	Increase	USD	660	600	990	900
D3	Hedge/Member	Mnth 2	Increase	USD	600	600	900	900
D3	Spec	Mnths 3-6	Increase	USD	660	600	880	800
D3	Hedge/Member	Mnths 3-6	Increase	USD	600	600	800	800
PJM AD HUB 5MW REAL TIME O PK (V3)								
V3	Spec	Mnths 5-11	Increase	USD	11	10	17	15
V3	Hedge/Member	Mnths 5-11	Increase	USD	10	10	15	15
PJM OFF-PEAK LMP FUT (JP)								
JP	Spec	Mnth 1	Increase	USD	4,400	4,000	4,950	4,500
JP	Hedge/Member	Mnth 1	Increase	USD	4,000	4,000	4,500	4,500
JP	Spec	Mnth 2	Increase	USD	3,850	3,500	4,840	4,400
JP	Hedge/Member	Mnth 2	Increase	USD	3,500	3,500	4,400	4,400
JP	Spec	Mnths 3-4	Increase	USD	3,740	3,400	4,400	4,000
JP	Hedge/Member	Mnths 3-4	Increase	USD	3,400	3,400	4,000	4,000
PJM WESTERN HUB DA PEAK DAILY (PWP)								
PWP	Spec	Days 1-10	Increase	USD	2,750	2,500	3,080	2,800
PWP	Hedge/Member	Days 1-10	Increase	USD	2,500	2,500	2,800	2,800

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
Outright Rates								
EQUITY INDEX - Outright Rates								
BTIC ON E-MINI NASDAQ-100 FUTURES (NQT)								
NQT	Spec		Decrease	USD	4,400	4,000	3,960	3,600
NQT	Hedge/Member		Decrease	USD	4,000	4,000	3,600	3,600
E-MINI NASDAQ 100 FUTURES (NQ)								
NQ	Spec		Decrease	USD	4,400	4,000	3,960	3,600
NQ	Hedge/Member		Decrease	USD	4,000	4,000	3,600	3,600
E-MINI NASDAQ-100 FUTURES MARKER (NQI)								
NQI	Spec		Decrease	USD	4,400	4,000	3,960	3,600
NQI	Hedge/Member		Decrease	USD	4,000	4,000	3,600	3,600
E-MINI NIFTY 50 INDEX FUTURES (II)								
II	Spec		Decrease	USD	990	900	880	800
II	Hedge/Member		Decrease	USD	900	900	800	800
E-MINI NIKKEI 225 YEN DENOMINATED (ENY)								
ENY	Spec		Decrease	JPY	104,500	95,000	96,800	88,000
ENY	Hedge/Member		Decrease	JPY	95,000	95,000	88,000	88,000
EMINI SP500 - FINANCIAL SECT INDEX (XAF)								
XAF	Spec		Increase	USD	2,970	2,700	3,300	3,000
XAF	Hedge/Member		Increase	USD	2,700	2,700	3,000	3,000
EMINI SP500- HEALTH CARE SECT INDEX (XAV)								
XAV	Spec		Decrease	USD	3,300	3,000	2,860	2,600
XAV	Hedge/Member		Decrease	USD	3,000	3,000	2,600	2,600
FTSE DEVELOPED EUROPE INDEX FUTURES (DVE)								
DVE	Spec		Decrease	EUR	2,860	2,600	2,530	2,300
DVE	Hedge/Member		Decrease	EUR	2,600	2,600	2,300	2,300
NASDAQ 100 FUTURES (ND)								
ND	Spec		Decrease	USD	22,000	20,000	19,800	18,000
ND	Hedge/Member		Decrease	USD	20,000	20,000	18,000	18,000
NIKKEI 225 DOLLAR FUTURES (NK)								
NK	Spec		Decrease	USD	5,225	4,750	4,840	4,400
NK	Hedge/Member		Decrease	USD	4,750	4,750	4,400	4,400
NIKKEI 225 YEN FUT (N1)								
N1	Spec		Decrease	JPY	522,500	475,000	484,000	440,000
N1	Hedge/Member		Decrease	JPY	475,000	475,000	440,000	440,000

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

SP 500 FINANCIAL SECTOR TIC (XFT)

XFT	Spec		Increase	USD	2,970	2,700	3,300	3,000
XFT	Hedge/Member		Increase	USD	2,700	2,700	3,000	3,000

SP 500 FINANCIAL SLCT SEC SYNT (1FT)

1FT	Spec		Increase	USD	2,970	2,700	3,300	3,000
1FT	Hedge/Member		Increase	USD	2,700	2,700	3,000	3,000

SP 500 HEALTH CARE SECTOR SYNTHETIC (1VT)

1VT	Spec		Decrease	USD	3,300	3,000	2,860	2,600
1VT	Hedge/Member		Decrease	USD	3,000	3,000	2,600	2,600

SP 500 HEALTH CARE SECTOR TIC (XVT)

XVT	Spec		Decrease	USD	3,300	3,000	2,860	2,600
XVT	Hedge/Member		Decrease	USD	3,000	3,000	2,600	2,600

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

ETHANOL - Outright Rates

CHICAGO ETHANOL FUT (CU)

CU	Spec	Mth 1	Increase	USD	2,860	2,600	3,410	3,100
CU	Hedge/Member	Mth 1	Increase	USD	2,600	2,600	3,100	3,100
CU	Spec	Mths 2	Increase	USD	2,640	2,400	3,080	2,800
CU	Hedge/Member	Mths 2	Increase	USD	2,400	2,400	2,800	2,800
CU	Spec	Mth 3-7	Increase	USD	2,200	2,000	2,640	2,400
CU	Hedge/Member	Mth 3-7	Increase	USD	2,000	2,000	2,400	2,400
CU	Spec	Mnth 8+	Increase	USD	2,035	1,850	2,420	2,200
CU	Hedge/Member	Mnth 8+	Increase	USD	1,850	1,850	2,200	2,200

ETHANOL FUTURES (EH)

EH	Spec	Month 1	Increase	USD	1,913	1,739	2,288	2,080
EH	Hedge/Member	Month 1	Increase	USD	1,739	1,739	2,080	2,080
EH	Spec	Month 2	Increase	USD	1,826	1,660	2,145	1,950
EH	Hedge/Member	Month 2	Increase	USD	1,660	1,660	1,950	1,950
EH	Spec	Month 3+	Increase	USD	1,430	1,300	1,705	1,550
EH	Hedge/Member	Month 3+	Increase	USD	1,300	1,300	1,550	1,550

NEW YORK ETHANOL FUT (EZ)

EZ	Spec	Mth 1	Increase	USD	4,125	3,750	4,950	4,500
EZ	Hedge/Member	Mth 1	Increase	USD	3,750	3,750	4,500	4,500
EZ	Spec	Mth 2	Increase	USD	3,740	3,400	4,400	4,000
EZ	Hedge/Member	Mth 2	Increase	USD	3,400	3,400	4,000	4,000
EZ	Spec	Mths 3-7	Increase	USD	3,190	2,900	3,740	3,400
EZ	Hedge/Member	Mths 3-7	Increase	USD	2,900	2,900	3,400	3,400
EZ	Spec	Mnths 8+	Increase	USD	3,190	2,900	3,740	3,400
EZ	Hedge/Member	Mnths 8+	Increase	USD	2,900	2,900	3,400	3,400

METALS - Outright Rates

ALUMINA FOB AUSTRALIA PLATT FUTURES (ALA)

ALA	Spec	Mths 1-4	Increase	USD	963	875	1,100	1,000
ALA	Hedge/Member	Mths 1-4	Increase	USD	875	875	1,000	1,000
ALA	Spec	Mths 5+	Increase	USD	963	875	1,100	1,000
ALA	Hedge/Member	Mths 5+	Increase	USD	875	875	1,000	1,000

ALUMINA FOB METAL BULLETIN FUTURES (ALB)

ALB	Spec	Mths 1-4	Increase	USD	963	875	1,100	1,000
ALB	Hedge/Member	Mths 1-4	Increase	USD	875	875	1,000	1,000
ALB	Spec	Mths 5+	Increase	USD	963	875	1,100	1,000
ALB	Hedge/Member	Mths 5+	Increase	USD	875	875	1,000	1,000

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								
LNG JAPAN KOREA MARKER PLATTS FUT (JKM)								
JKM	Spec		Decrease	USD	8,525	7,750	4,620	4,200
JKM	Hedge/Member		Decrease	USD	7,750	7,750	4,200	4,200
ONEOK OKLAHOMA NG BASIS (8X)								
8X	Spec	Mnth 1	Increase	USD	220	200	264	240
8X	Hedge/Member	Mnth 1	Increase	USD	200	200	240	240
8X	Spec	Mnth 2	Increase	USD	154	140	187	170
8X	Hedge/Member	Mnth 2	Increase	USD	140	140	170	170
8X	Spec	Mnths 3-7	Increase	USD	154	140	187	170
8X	Hedge/Member	Mnths 3-7	Increase	USD	140	140	170	170
8X	Spec	Mnths 8-20	Increase	USD	160	145	193	175
8X	Hedge/Member	Mnths 8-20	Increase	USD	145	145	175	175
8X	Spec	Mnths 21+	Increase	USD	160	145	193	175
8X	Hedge/Member	Mnths 21+	Increase	USD	145	145	175	175
SAN JUAN BASIS FUT (NJ)								
NJ	Spec	Mth 2	Increase	USD	132	120	165	150
NJ	Hedge/Member	Mth 2	Increase	USD	120	120	150	150
NJ	Spec	Mths 3-6	Increase	USD	132	120	165	150
NJ	Hedge/Member	Mths 3-6	Increase	USD	120	120	150	150
NJ	Spec	Mths 7-12	Increase	USD	220	200	264	240
NJ	Hedge/Member	Mths 7-12	Increase	USD	200	200	240	240
NJ	Spec	Mths 13+	Increase	USD	242	220	286	260
NJ	Hedge/Member	Mths 13+	Increase	USD	220	220	260	260
TEXAS EASTERN ZONE M-3 BASIS FUT (NX)								
NX	Spec	Mth 1	Increase	USD	935	850	1,403	1,275
NX	Hedge/Member	Mth 1	Increase	USD	850	850	1,275	1,275
NX	Spec	Mth 2	Increase	USD	825	750	1,238	1,125
NX	Hedge/Member	Mth 2	Increase	USD	750	750	1,125	1,125
TEXAS GAS ZONE1 NG BASIS (9F)								
9F	Spec	Mnth 2-2	Increase	USD	110	100	154	140
9F	Hedge/Member	Mnth 2-2	Increase	USD	100	100	140	140
9F	Spec	Mnths 3-7	Increase	USD	110	100	154	140
9F	Hedge/Member	Mnths 3-7	Increase	USD	100	100	140	140
9F	Spec	Mnths 8-19	Increase	USD	110	100	154	140
9F	Hedge/Member	Mnths 8-19	Increase	USD	100	100	140	140
9F	Spec	Mnths 20+	Increase	USD	110	100	154	140
9F	Hedge/Member	Mnths 20+	Increase	USD	100	100	140	140

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
Outright Rates								
TRANSCO ZONE 6 NON NY BASIS FUT (TZ6)								
TZ6	Spec	Mnth 1	Increase	USD	1,100	1,000	1,650	1,500
TZ6	Hedge/Member	Mnth 1	Increase	USD	1,000	1,000	1,500	1,500
TZ6	Spec	Mnth 2	Increase	USD	990	900	1,485	1,350
TZ6	Hedge/Member	Mnth 2	Increase	USD	900	900	1,350	1,350
NGL/PETROCHEMICALS - Outright Rates								
EURO PROPANE CIF ARA FUT (PS)								
PS	Spec	Mnth 1	Decrease	USD	31,350	28,500	30,250	27,500
PS	Hedge/Member	Mnth 1	Decrease	USD	28,500	28,500	27,500	27,500
PS	Spec	Mths 2 - 3	Decrease	USD	36,300	33,000	33,000	30,000
PS	Hedge/Member	Mths 2 - 3	Decrease	USD	33,000	33,000	30,000	30,000
PS	Spec	Mths 4+	Decrease	USD	36,300	33,000	33,000	30,000
PS	Hedge/Member	Mths 4+	Decrease	USD	33,000	33,000	30,000	30,000
MINI EURO PROPANE CIF ARA ARGUS FUT (MPS)								
MPS	Spec	Mnth 1	Decrease	USD	3,135	2,850	3,025	2,750
MPS	Hedge/Member	Mnth 1	Decrease	USD	2,850	2,850	2,750	2,750
MPS	Spec	Mths 2 - 3	Decrease	USD	3,630	3,300	3,300	3,000
MPS	Hedge/Member	Mths 2 - 3	Decrease	USD	3,300	3,300	3,000	3,000
MPS	Spec	Mths 4+	Decrease	USD	3,630	3,300	3,300	3,000
MPS	Hedge/Member	Mths 4+	Decrease	USD	3,300	3,300	3,000	3,000
PETROLEUM CRACKS AND SPREADS - Outright Rates								
GLFCST JET PLATTS UP/DN FUT (ME)								
ME	Spec	Mnth 2	Increase	USD	880	800	1,155	1,050
ME	Hedge/Member	Mnth 2	Increase	USD	800	800	1,050	1,050
ME	Spec	Mnths 3-5	Increase	USD	798	725	1,034	940
ME	Hedge/Member	Mnths 3-5	Increase	USD	725	725	940	940
ME	Spec	Mnths 6+	Increase	USD	798	725	1,034	940
ME	Hedge/Member	Mnths 6+	Increase	USD	725	725	940	940
SING FUEL OIL 180 V. 380 CST FUT (DSD)								
DSD	Spec	Mnths 1	New	USD			10,670	9,700
DSD	Hedge/Member	Mnths 1	New	USD			9,700	9,700
DSD	Spec	Mnths 2-4	New	USD			2,420	2,200
DSD	Hedge/Member	Mnths 2-4	New	USD			2,200	2,200
DSD	Spec	Mnths 5-25	New	USD			1,320	1,200
DSD	Hedge/Member	Mnths 5-25	New	USD			1,200	1,200
DSD	Spec	Mnths 26+	New	USD			1,320	1,200
DSD	Hedge/Member	Mnths 26+	New	USD			1,200	1,200

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

REFINED PRODUCTS - Outright Rates

SINGAPORE FUEL OIL 380CST PLATT FUT (DSE)

DSE	Spec	Mnth 1	New	USD			22,000	20,000
DSE	Hedge/Member	Mnth 1	New	USD			20,000	20,000
DSE	Spec	Mnths 2-6	New	USD			22,000	20,000
DSE	Hedge/Member	Mnths 2-6	New	USD			20,000	20,000
DSE	Spec	Mnths 7+	New	USD			22,000	20,000
DSE	Hedge/Member	Mnths 7+	New	USD			20,000	20,000

SINGAPORE FUEL OIL180CST PLATTS FUT (DUP)

DUP	Spec	Mnth 1	New	USD			22,000	20,000
DUP	Hedge/Member	Mnth 1	New	USD			20,000	20,000
DUP	Spec	Mnth 2	New	USD			22,000	20,000
DUP	Hedge/Member	Mnth 2	New	USD			20,000	20,000
DUP	Spec	Mnths 3-7	New	USD			22,000	20,000
DUP	Hedge/Member	Mnths 3-7	New	USD			20,000	20,000
DUP	Spec	Mnths 8+	New	USD			20,900	19,000
DUP	Hedge/Member	Mnths 8+	New	USD			19,000	19,000

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								
COAL - Intra Spreads								
COAL API4 RCH BAY ARGS MCCLOSKEY FUT : MFF-09 vs MFF-26 (COAL API4 RCH BAY ARGS MCCLOSKEY FUT)								
MFF	Spec		Increase	USD	1,650	1,500	2,750	2,500
MFF	Hedge/Member		Increase	USD	1,500	1,500	2,500	2,500
COAL API4 RCH BAY ARGS MCCLOSKEY FUT : MFF-09 vs MFF-27 (COAL API4 RCH BAY ARGS MCCLOSKEY FUT)								
MFF	Spec		Increase	USD	2,200	2,000	3,300	3,000
MFF	Hedge/Member		Increase	USD	2,000	2,000	3,000	3,000
COAL API4 RCH BAY ARGS MCCLOSKEY FUT : MFF-09 vs MFF-28 (COAL API4 RCH BAY ARGS MCCLOSKEY FUT)								
MFF	Spec		Increase	USD	2,376	2,160	3,300	3,000
MFF	Hedge/Member		Increase	USD	2,160	2,160	3,000	3,000
COAL API4 RCH BAY ARGS MCCLOSKEY FUT : MFF-09 vs MFF-29 (COAL API4 RCH BAY ARGS MCCLOSKEY FUT)								
MFF	Spec		Increase	USD	2,376	2,160	3,300	3,000
MFF	Hedge/Member		Increase	USD	2,160	2,160	3,000	3,000
COAL API4 RCH BAY ARGS MCCLOSKEY FUT : MFF-09 vs MFF-30 (COAL API4 RCH BAY ARGS MCCLOSKEY FUT)								
MFF	Spec		Increase	USD	2,376	2,160	3,300	3,000
MFF	Hedge/Member		Increase	USD	2,160	2,160	3,000	3,000
COAL API4 RCH BAY ARGS MCCLOSKEY FUT : MFF-09 vs MFF-31 (COAL API4 RCH BAY ARGS MCCLOSKEY FUT)								
MFF	Spec		Increase	USD	2,376	2,160	3,300	3,000
MFF	Hedge/Member		Increase	USD	2,160	2,160	3,000	3,000
COAL API4 RCH BAY ARGS MCCLOSKEY FUT : MFF-09 vs MFF-32 (COAL API4 RCH BAY ARGS MCCLOSKEY FUT)								
MFF	Spec		Increase	USD	2,376	2,160	3,300	3,000
MFF	Hedge/Member		Increase	USD	2,160	2,160	3,000	3,000
COAL API4 RCH BAY ARGS MCCLOSKEY FUT : MFF-09 vs MFF-33 (COAL API4 RCH BAY ARGS MCCLOSKEY FUT)								
MFF	Spec		Increase	USD	2,376	2,160	3,300	3,000
MFF	Hedge/Member		Increase	USD	2,160	2,160	3,000	3,000
COAL API4 RCH BAY ARGS MCCLOSKEY FUT : MFF-09 vs MFF-34 (COAL API4 RCH BAY ARGS MCCLOSKEY FUT)								
MFF	Spec		Increase	USD	2,376	2,160	3,300	3,000
MFF	Hedge/Member		Increase	USD	2,160	2,160	3,000	3,000
COAL API4 RCH BAY ARGS MCCLOSKEY FUT : MFF-09 vs MFF-35 (COAL API4 RCH BAY ARGS MCCLOSKEY FUT)								
MFF	Spec		Increase	USD	2,376	2,160	3,300	3,000
MFF	Hedge/Member		Increase	USD	2,160	2,160	3,000	3,000
COAL API4 RCH BAY ARGS MCCLOSKEY FUT : MFF-09 vs MFF-36 (COAL API4 RCH BAY ARGS MCCLOSKEY FUT)								
MFF	Spec		Increase	USD	2,376	2,160	3,300	3,000
MFF	Hedge/Member		Increase	USD	2,160	2,160	3,000	3,000

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
Intra Spreads								
COAL API4 RCH BAY ARGS MCCLOSKEY FUT : MFF-09 vs MFF-37 (COAL API4 RCH BAY ARGS MCCLOSKEY FUT)								
MFF	Spec		Increase	USD	2,376	2,160	3,300	3,000
MFF	Hedge/Member		Increase	USD	2,160	2,160	3,000	3,000
COAL API4 RCH BAY ARGS MCCLOSKEY FUT : MFF-09 vs MFF-38 (COAL API4 RCH BAY ARGS MCCLOSKEY FUT)								
MFF	Spec		Increase	USD	2,376	2,160	3,300	3,000
MFF	Hedge/Member		Increase	USD	2,160	2,160	3,000	3,000
COAL API4 RCH BAY ARGS MCCLOSKEY FUT : MFF-09 vs MFF-39 (COAL API4 RCH BAY ARGS MCCLOSKEY FUT)								
MFF	Spec		Increase	USD	2,640	2,400	3,300	3,000
MFF	Hedge/Member		Increase	USD	2,400	2,400	3,000	3,000
COAL API4 RCH BAY ARGS MCCLOSKEY FUT : MFF-09 vs MFF-40 (COAL API4 RCH BAY ARGS MCCLOSKEY FUT)								
MFF	Spec		Increase	USD	2,640	2,400	3,300	3,000
MFF	Hedge/Member		Increase	USD	2,400	2,400	3,000	3,000
COAL API4 RCH BAY ARGS MCCLOSKEY FUT : MFF-09 vs MFF-41 (COAL API4 RCH BAY ARGS MCCLOSKEY FUT)								
MFF	Spec		Increase	USD	2,640	2,400	3,300	3,000
MFF	Hedge/Member		Increase	USD	2,400	2,400	3,000	3,000
COAL API4 RCH BAY ARGS MCCLOSKEY FUT : MFF-09 vs MFF-42 (COAL API4 RCH BAY ARGS MCCLOSKEY FUT)								
MFF	Spec		Increase	USD	2,640	2,400	3,300	3,000
MFF	Hedge/Member		Increase	USD	2,400	2,400	3,000	3,000
COAL API4 RCH BAY ARGS MCCLOSKEY FUT : MFF-10 vs MFF-26 (COAL API4 RCH BAY ARGS MCCLOSKEY FUT)								
MFF	Spec		Increase	USD	1,650	1,500	2,750	2,500
MFF	Hedge/Member		Increase	USD	1,500	1,500	2,500	2,500
COAL API4 RCH BAY ARGS MCCLOSKEY FUT : MFF-10 vs MFF-27 (COAL API4 RCH BAY ARGS MCCLOSKEY FUT)								
MFF	Spec		Increase	USD	2,310	2,100	3,300	3,000
MFF	Hedge/Member		Increase	USD	2,100	2,100	3,000	3,000
COAL API4 RCH BAY ARGS MCCLOSKEY FUT : MFF-10 vs MFF-28 (COAL API4 RCH BAY ARGS MCCLOSKEY FUT)								
MFF	Spec		Increase	USD	2,310	2,100	3,300	3,000
MFF	Hedge/Member		Increase	USD	2,100	2,100	3,000	3,000
COAL API4 RCH BAY ARGS MCCLOSKEY FUT : MFF-10 vs MFF-29 (COAL API4 RCH BAY ARGS MCCLOSKEY FUT)								
MFF	Spec		Increase	USD	2,310	2,100	3,300	3,000
MFF	Hedge/Member		Increase	USD	2,100	2,100	3,000	3,000
COAL API4 RCH BAY ARGS MCCLOSKEY FUT : MFF-10 vs MFF-30 (COAL API4 RCH BAY ARGS MCCLOSKEY FUT)								
MFF	Spec		Increase	USD	2,310	2,100	3,300	3,000
MFF	Hedge/Member		Increase	USD	2,100	2,100	3,000	3,000

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
Intra Spreads								
COAL API4 RCH BAY ARGS MCCLOSKEY FUT : MFF-10 vs MFF-31 (COAL API4 RCH BAY ARGS MCCLOSKEY FUT)								
MFF	Spec		Increase	USD	2,310	2,100	3,300	3,000
MFF	Hedge/Member		Increase	USD	2,100	2,100	3,000	3,000
COAL API4 RCH BAY ARGS MCCLOSKEY FUT : MFF-10 vs MFF-32 (COAL API4 RCH BAY ARGS MCCLOSKEY FUT)								
MFF	Spec		Increase	USD	2,310	2,100	3,300	3,000
MFF	Hedge/Member		Increase	USD	2,100	2,100	3,000	3,000
COAL API4 RCH BAY ARGS MCCLOSKEY FUT : MFF-10 vs MFF-33 (COAL API4 RCH BAY ARGS MCCLOSKEY FUT)								
MFF	Spec		Increase	USD	2,310	2,100	3,300	3,000
MFF	Hedge/Member		Increase	USD	2,100	2,100	3,000	3,000
COAL API4 RCH BAY ARGS MCCLOSKEY FUT : MFF-10 vs MFF-34 (COAL API4 RCH BAY ARGS MCCLOSKEY FUT)								
MFF	Spec		Increase	USD	2,310	2,100	3,300	3,000
MFF	Hedge/Member		Increase	USD	2,100	2,100	3,000	3,000
COAL API4 RCH BAY ARGS MCCLOSKEY FUT : MFF-10 vs MFF-35 (COAL API4 RCH BAY ARGS MCCLOSKEY FUT)								
MFF	Spec		Increase	USD	2,310	2,100	3,300	3,000
MFF	Hedge/Member		Increase	USD	2,100	2,100	3,000	3,000
COAL API4 RCH BAY ARGS MCCLOSKEY FUT : MFF-10 vs MFF-36 (COAL API4 RCH BAY ARGS MCCLOSKEY FUT)								
MFF	Spec		Increase	USD	2,310	2,100	3,300	3,000
MFF	Hedge/Member		Increase	USD	2,100	2,100	3,000	3,000
COAL API4 RCH BAY ARGS MCCLOSKEY FUT : MFF-10 vs MFF-37 (COAL API4 RCH BAY ARGS MCCLOSKEY FUT)								
MFF	Spec		Increase	USD	2,310	2,100	3,300	3,000
MFF	Hedge/Member		Increase	USD	2,100	2,100	3,000	3,000
COAL API4 RCH BAY ARGS MCCLOSKEY FUT : MFF-10 vs MFF-38 (COAL API4 RCH BAY ARGS MCCLOSKEY FUT)								
MFF	Spec		Increase	USD	2,310	2,100	3,300	3,000
MFF	Hedge/Member		Increase	USD	2,100	2,100	3,000	3,000
COAL API4 RCH BAY ARGS MCCLOSKEY FUT : MFF-10 vs MFF-39 (COAL API4 RCH BAY ARGS MCCLOSKEY FUT)								
MFF	Spec		Increase	USD	2,310	2,100	3,300	3,000
MFF	Hedge/Member		Increase	USD	2,100	2,100	3,000	3,000
COAL API4 RCH BAY ARGS MCCLOSKEY FUT : MFF-10 vs MFF-40 (COAL API4 RCH BAY ARGS MCCLOSKEY FUT)								
MFF	Spec		Increase	USD	2,310	2,100	3,300	3,000
MFF	Hedge/Member		Increase	USD	2,100	2,100	3,000	3,000
COAL API4 RCH BAY ARGS MCCLOSKEY FUT : MFF-10 vs MFF-41 (COAL API4 RCH BAY ARGS MCCLOSKEY FUT)								
MFF	Spec		Increase	USD	2,310	2,100	3,300	3,000
MFF	Hedge/Member		Increase	USD	2,100	2,100	3,000	3,000

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
Intra Spreads								
COAL API4 RCH BAY ARGS MCCLOSKEY FUT : MFF-10 vs MFF-42 (COAL API4 RCH BAY ARGS MCCLOSKEY FUT)								
MFF	Spec		Increase	USD	2,310	2,100	3,300	3,000
MFF	Hedge/Member		Increase	USD	2,100	2,100	3,000	3,000
COAL API4 RCH BAY ARGS MCCLOSKEY FUT : MFF-11 vs MFF-26 (COAL API4 RCH BAY ARGS MCCLOSKEY FUT)								
MFF	Spec		Increase	USD	1,650	1,500	2,750	2,500
MFF	Hedge/Member		Increase	USD	1,500	1,500	2,500	2,500
COAL API4 RCH BAY ARGS MCCLOSKEY FUT : MFF-11 vs MFF-27 (COAL API4 RCH BAY ARGS MCCLOSKEY FUT)								
MFF	Spec		Increase	USD	1,980	1,800	3,300	3,000
MFF	Hedge/Member		Increase	USD	1,800	1,800	3,000	3,000
COAL API4 RCH BAY ARGS MCCLOSKEY FUT : MFF-11 vs MFF-28 (COAL API4 RCH BAY ARGS MCCLOSKEY FUT)								
MFF	Spec		Increase	USD	2,310	2,100	3,300	3,000
MFF	Hedge/Member		Increase	USD	2,100	2,100	3,000	3,000
COAL API4 RCH BAY ARGS MCCLOSKEY FUT : MFF-11 vs MFF-29 (COAL API4 RCH BAY ARGS MCCLOSKEY FUT)								
MFF	Spec		Increase	USD	2,310	2,100	3,300	3,000
MFF	Hedge/Member		Increase	USD	2,100	2,100	3,000	3,000
COAL API4 RCH BAY ARGS MCCLOSKEY FUT : MFF-11 vs MFF-30 (COAL API4 RCH BAY ARGS MCCLOSKEY FUT)								
MFF	Spec		Increase	USD	2,310	2,100	3,300	3,000
MFF	Hedge/Member		Increase	USD	2,100	2,100	3,000	3,000
COAL API4 RCH BAY ARGS MCCLOSKEY FUT : MFF-11 vs MFF-31 (COAL API4 RCH BAY ARGS MCCLOSKEY FUT)								
MFF	Spec		Increase	USD	2,310	2,100	3,300	3,000
MFF	Hedge/Member		Increase	USD	2,100	2,100	3,000	3,000
COAL API4 RCH BAY ARGS MCCLOSKEY FUT : MFF-11 vs MFF-32 (COAL API4 RCH BAY ARGS MCCLOSKEY FUT)								
MFF	Spec		Increase	USD	2,310	2,100	3,300	3,000
MFF	Hedge/Member		Increase	USD	2,100	2,100	3,000	3,000
COAL API4 RCH BAY ARGS MCCLOSKEY FUT : MFF-11 vs MFF-33 (COAL API4 RCH BAY ARGS MCCLOSKEY FUT)								
MFF	Spec		Increase	USD	2,310	2,100	3,300	3,000
MFF	Hedge/Member		Increase	USD	2,100	2,100	3,000	3,000
COAL API4 RCH BAY ARGS MCCLOSKEY FUT : MFF-11 vs MFF-34 (COAL API4 RCH BAY ARGS MCCLOSKEY FUT)								
MFF	Spec		Increase	USD	2,310	2,100	3,300	3,000
MFF	Hedge/Member		Increase	USD	2,100	2,100	3,000	3,000
COAL API4 RCH BAY ARGS MCCLOSKEY FUT : MFF-11 vs MFF-35 (COAL API4 RCH BAY ARGS MCCLOSKEY FUT)								
MFF	Spec		Increase	USD	2,310	2,100	3,300	3,000
MFF	Hedge/Member		Increase	USD	2,100	2,100	3,000	3,000

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
Intra Spreads								
COAL API4 RCH BAY ARGS MCCLOSKEY FUT : MFF-11 vs MFF-36 (COAL API4 RCH BAY ARGS MCCLOSKEY FUT)								
MFF	Spec		Increase	USD	2,310	2,100	3,300	3,000
MFF	Hedge/Member		Increase	USD	2,100	2,100	3,000	3,000
COAL API4 RCH BAY ARGS MCCLOSKEY FUT : MFF-11 vs MFF-37 (COAL API4 RCH BAY ARGS MCCLOSKEY FUT)								
MFF	Spec		Increase	USD	2,310	2,100	3,300	3,000
MFF	Hedge/Member		Increase	USD	2,100	2,100	3,000	3,000
COAL API4 RCH BAY ARGS MCCLOSKEY FUT : MFF-11 vs MFF-38 (COAL API4 RCH BAY ARGS MCCLOSKEY FUT)								
MFF	Spec		Increase	USD	2,310	2,100	3,300	3,000
MFF	Hedge/Member		Increase	USD	2,100	2,100	3,000	3,000
COAL API4 RCH BAY ARGS MCCLOSKEY FUT : MFF-11 vs MFF-39 (COAL API4 RCH BAY ARGS MCCLOSKEY FUT)								
MFF	Spec		Increase	USD	2,310	2,100	3,300	3,000
MFF	Hedge/Member		Increase	USD	2,100	2,100	3,000	3,000
COAL API4 RCH BAY ARGS MCCLOSKEY FUT : MFF-11 vs MFF-40 (COAL API4 RCH BAY ARGS MCCLOSKEY FUT)								
MFF	Spec		Increase	USD	2,310	2,100	3,300	3,000
MFF	Hedge/Member		Increase	USD	2,100	2,100	3,000	3,000
COAL API4 RCH BAY ARGS MCCLOSKEY FUT : MFF-11 vs MFF-41 (COAL API4 RCH BAY ARGS MCCLOSKEY FUT)								
MFF	Spec		Increase	USD	2,310	2,100	3,300	3,000
MFF	Hedge/Member		Increase	USD	2,100	2,100	3,000	3,000
COAL API4 RCH BAY ARGS MCCLOSKEY FUT : MFF-11 vs MFF-42 (COAL API4 RCH BAY ARGS MCCLOSKEY FUT)								
MFF	Spec		Increase	USD	2,310	2,100	3,300	3,000
MFF	Hedge/Member		Increase	USD	2,100	2,100	3,000	3,000
COAL API4 RCH BAY ARGS MCCLOSKEY FUT : MFF-12 vs MFF-26 (COAL API4 RCH BAY ARGS MCCLOSKEY FUT)								
MFF	Spec		Increase	USD	1,320	1,200	2,640	2,400
MFF	Hedge/Member		Increase	USD	1,200	1,200	2,400	2,400
COAL API4 RCH BAY ARGS MCCLOSKEY FUT : MFF-12 vs MFF-27 (COAL API4 RCH BAY ARGS MCCLOSKEY FUT)								
MFF	Spec		Increase	USD	1,540	1,400	3,080	2,800
MFF	Hedge/Member		Increase	USD	1,400	1,400	2,800	2,800
COAL API4 RCH BAY ARGS MCCLOSKEY FUT : MFF-12 vs MFF-28 (COAL API4 RCH BAY ARGS MCCLOSKEY FUT)								
MFF	Spec		Increase	USD	1,716	1,560	3,080	2,800
MFF	Hedge/Member		Increase	USD	1,560	1,560	2,800	2,800
COAL API4 RCH BAY ARGS MCCLOSKEY FUT : MFF-12 vs MFF-29 (COAL API4 RCH BAY ARGS MCCLOSKEY FUT)								
MFF	Spec		Increase	USD	1,716	1,560	3,080	2,800
MFF	Hedge/Member		Increase	USD	1,560	1,560	2,800	2,800

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
Intra Spreads								
COAL API4 RCH BAY ARGS MCCLOSKEY FUT : MFF-12 vs MFF-30 (COAL API4 RCH BAY ARGS MCCLOSKEY FUT)								
MFF	Spec		Increase	USD	1,716	1,560	3,080	2,800
MFF	Hedge/Member		Increase	USD	1,560	1,560	2,800	2,800
COAL API4 RCH BAY ARGS MCCLOSKEY FUT : MFF-12 vs MFF-31 (COAL API4 RCH BAY ARGS MCCLOSKEY FUT)								
MFF	Spec		Increase	USD	1,716	1,560	3,080	2,800
MFF	Hedge/Member		Increase	USD	1,560	1,560	2,800	2,800
COAL API4 RCH BAY ARGS MCCLOSKEY FUT : MFF-12 vs MFF-32 (COAL API4 RCH BAY ARGS MCCLOSKEY FUT)								
MFF	Spec		Increase	USD	1,716	1,560	3,080	2,800
MFF	Hedge/Member		Increase	USD	1,560	1,560	2,800	2,800
COAL API4 RCH BAY ARGS MCCLOSKEY FUT : MFF-12 vs MFF-33 (COAL API4 RCH BAY ARGS MCCLOSKEY FUT)								
MFF	Spec		Increase	USD	1,716	1,560	3,080	2,800
MFF	Hedge/Member		Increase	USD	1,560	1,560	2,800	2,800
COAL API4 RCH BAY ARGS MCCLOSKEY FUT : MFF-12 vs MFF-34 (COAL API4 RCH BAY ARGS MCCLOSKEY FUT)								
MFF	Spec		Increase	USD	1,716	1,560	3,080	2,800
MFF	Hedge/Member		Increase	USD	1,560	1,560	2,800	2,800
COAL API4 RCH BAY ARGS MCCLOSKEY FUT : MFF-12 vs MFF-35 (COAL API4 RCH BAY ARGS MCCLOSKEY FUT)								
MFF	Spec		Increase	USD	1,716	1,560	3,080	2,800
MFF	Hedge/Member		Increase	USD	1,560	1,560	2,800	2,800
COAL API4 RCH BAY ARGS MCCLOSKEY FUT : MFF-12 vs MFF-36 (COAL API4 RCH BAY ARGS MCCLOSKEY FUT)								
MFF	Spec		Increase	USD	1,716	1,560	3,080	2,800
MFF	Hedge/Member		Increase	USD	1,560	1,560	2,800	2,800
COAL API4 RCH BAY ARGS MCCLOSKEY FUT : MFF-12 vs MFF-37 (COAL API4 RCH BAY ARGS MCCLOSKEY FUT)								
MFF	Spec		Increase	USD	1,716	1,560	3,080	2,800
MFF	Hedge/Member		Increase	USD	1,560	1,560	2,800	2,800
COAL API4 RCH BAY ARGS MCCLOSKEY FUT : MFF-12 vs MFF-38 (COAL API4 RCH BAY ARGS MCCLOSKEY FUT)								
MFF	Spec		Increase	USD	1,716	1,560	3,080	2,800
MFF	Hedge/Member		Increase	USD	1,560	1,560	2,800	2,800
COAL API4 RCH BAY ARGS MCCLOSKEY FUT : MFF-12 vs MFF-39 (COAL API4 RCH BAY ARGS MCCLOSKEY FUT)								
MFF	Spec		Increase	USD	1,914	1,740	3,080	2,800
MFF	Hedge/Member		Increase	USD	1,740	1,740	2,800	2,800
COAL API4 RCH BAY ARGS MCCLOSKEY FUT : MFF-12 vs MFF-40 (COAL API4 RCH BAY ARGS MCCLOSKEY FUT)								
MFF	Spec		Increase	USD	2,310	2,100	3,080	2,800
MFF	Hedge/Member		Increase	USD	2,100	2,100	2,800	2,800

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
Intra Spreads								
COAL API4 RCH BAY ARGS MCCLOSKEY FUT : MFF-12 vs MFF-41 (COAL API4 RCH BAY ARGS MCCLOSKEY FUT)								
MFF	Spec		Increase	USD	2,310	2,100	3,080	2,800
MFF	Hedge/Member		Increase	USD	2,100	2,100	2,800	2,800
COAL API4 RCH BAY ARGS MCCLOSKEY FUT : MFF-12 vs MFF-42 (COAL API4 RCH BAY ARGS MCCLOSKEY FUT)								
MFF	Spec		Increase	USD	2,310	2,100	3,080	2,800
MFF	Hedge/Member		Increase	USD	2,100	2,100	2,800	2,800
COAL API4 RCH BAY ARGS MCCLOSKEY FUT : MFF-13 vs MFF-26 (COAL API4 RCH BAY ARGS MCCLOSKEY FUT)								
MFF	Spec		Increase	USD	1,386	1,260	2,200	2,000
MFF	Hedge/Member		Increase	USD	1,260	1,260	2,000	2,000
COAL API4 RCH BAY ARGS MCCLOSKEY FUT : MFF-13 vs MFF-27 (COAL API4 RCH BAY ARGS MCCLOSKEY FUT)								
MFF	Spec		Increase	USD	1,650	1,500	2,200	2,000
MFF	Hedge/Member		Increase	USD	1,500	1,500	2,000	2,000
COAL API4 RCH BAY ARGS MCCLOSKEY FUT : MFF-13 vs MFF-28 (COAL API4 RCH BAY ARGS MCCLOSKEY FUT)								
MFF	Spec		Increase	USD	2,046	1,860	3,080	2,800
MFF	Hedge/Member		Increase	USD	1,860	1,860	2,800	2,800
COAL API4 RCH BAY ARGS MCCLOSKEY FUT : MFF-13 vs MFF-29 (COAL API4 RCH BAY ARGS MCCLOSKEY FUT)								
MFF	Spec		Increase	USD	2,046	1,860	3,080	2,800
MFF	Hedge/Member		Increase	USD	1,860	1,860	2,800	2,800
COAL API4 RCH BAY ARGS MCCLOSKEY FUT : MFF-13 vs MFF-30 (COAL API4 RCH BAY ARGS MCCLOSKEY FUT)								
MFF	Spec		Increase	USD	2,046	1,860	3,080	2,800
MFF	Hedge/Member		Increase	USD	1,860	1,860	2,800	2,800
COAL API4 RCH BAY ARGS MCCLOSKEY FUT : MFF-13 vs MFF-31 (COAL API4 RCH BAY ARGS MCCLOSKEY FUT)								
MFF	Spec		Increase	USD	2,046	1,860	3,080	2,800
MFF	Hedge/Member		Increase	USD	1,860	1,860	2,800	2,800
COAL API4 RCH BAY ARGS MCCLOSKEY FUT : MFF-13 vs MFF-32 (COAL API4 RCH BAY ARGS MCCLOSKEY FUT)								
MFF	Spec		Increase	USD	2,046	1,860	3,080	2,800
MFF	Hedge/Member		Increase	USD	1,860	1,860	2,800	2,800
COAL API4 RCH BAY ARGS MCCLOSKEY FUT : MFF-13 vs MFF-33 (COAL API4 RCH BAY ARGS MCCLOSKEY FUT)								
MFF	Spec		Increase	USD	2,046	1,860	3,080	2,800
MFF	Hedge/Member		Increase	USD	1,860	1,860	2,800	2,800
COAL API4 RCH BAY ARGS MCCLOSKEY FUT : MFF-13 vs MFF-34 (COAL API4 RCH BAY ARGS MCCLOSKEY FUT)								
MFF	Spec		Increase	USD	2,046	1,860	3,080	2,800
MFF	Hedge/Member		Increase	USD	1,860	1,860	2,800	2,800

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
Intra Spreads								
COAL API4 RCH BAY ARGS MCCLOSKEY FUT : MFF-13 vs MFF-35 (COAL API4 RCH BAY ARGS MCCLOSKEY FUT)								
MFF	Spec		Increase	USD	2,046	1,860	3,080	2,800
MFF	Hedge/Member		Increase	USD	1,860	1,860	2,800	2,800
COAL API4 RCH BAY ARGS MCCLOSKEY FUT : MFF-13 vs MFF-36 (COAL API4 RCH BAY ARGS MCCLOSKEY FUT)								
MFF	Spec		Increase	USD	2,046	1,860	3,080	2,800
MFF	Hedge/Member		Increase	USD	1,860	1,860	2,800	2,800
COAL API4 RCH BAY ARGS MCCLOSKEY FUT : MFF-13 vs MFF-37 (COAL API4 RCH BAY ARGS MCCLOSKEY FUT)								
MFF	Spec		Increase	USD	2,046	1,860	3,080	2,800
MFF	Hedge/Member		Increase	USD	1,860	1,860	2,800	2,800
COAL API4 RCH BAY ARGS MCCLOSKEY FUT : MFF-13 vs MFF-38 (COAL API4 RCH BAY ARGS MCCLOSKEY FUT)								
MFF	Spec		Increase	USD	2,046	1,860	3,080	2,800
MFF	Hedge/Member		Increase	USD	1,860	1,860	2,800	2,800
COAL API4 RCH BAY ARGS MCCLOSKEY FUT : MFF-13 vs MFF-39 (COAL API4 RCH BAY ARGS MCCLOSKEY FUT)								
MFF	Spec		Increase	USD	2,046	1,860	3,080	2,800
MFF	Hedge/Member		Increase	USD	1,860	1,860	2,800	2,800
COAL API4 RCH BAY ARGS MCCLOSKEY FUT : MFF-13 vs MFF-40 (COAL API4 RCH BAY ARGS MCCLOSKEY FUT)								
MFF	Spec		Increase	USD	2,475	2,250	3,080	2,800
MFF	Hedge/Member		Increase	USD	2,250	2,250	2,800	2,800
COAL API4 RCH BAY ARGS MCCLOSKEY FUT : MFF-13 vs MFF-41 (COAL API4 RCH BAY ARGS MCCLOSKEY FUT)								
MFF	Spec		Increase	USD	2,475	2,250	3,080	2,800
MFF	Hedge/Member		Increase	USD	2,250	2,250	2,800	2,800
COAL API4 RCH BAY ARGS MCCLOSKEY FUT : MFF-13 vs MFF-42 (COAL API4 RCH BAY ARGS MCCLOSKEY FUT)								
MFF	Spec		Increase	USD	2,475	2,250	3,080	2,800
MFF	Hedge/Member		Increase	USD	2,250	2,250	2,800	2,800
COAL API4 RCH BAY ARGS MCCLOSKEY FUT : MFF-15 vs MFF-16 (COAL API4 RCH BAY ARGS MCCLOSKEY FUT)								
MFF	Spec		Increase	USD	1,386	1,260	1,650	1,500
MFF	Hedge/Member		Increase	USD	1,260	1,260	1,500	1,500
COAL API4 RCH BAY ARGS MCCLOSKEY FUT : MFF-15 vs MFF-17 (COAL API4 RCH BAY ARGS MCCLOSKEY FUT)								
MFF	Spec		Increase	USD	1,386	1,260	1,650	1,500
MFF	Hedge/Member		Increase	USD	1,260	1,260	1,500	1,500
COAL API4 RCH BAY ARGS MCCLOSKEY FUT : MFF-15 vs MFF-18 (COAL API4 RCH BAY ARGS MCCLOSKEY FUT)								
MFF	Spec		Increase	USD	1,386	1,260	1,650	1,500
MFF	Hedge/Member		Increase	USD	1,260	1,260	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 API4 RCH BAY ARGS MCCLOSKEY FUT : MFF-15 vs MFF-19 (COAL API4 RCH BAY ARGS MCCLOSKEY FUT)

MFF	Spec	Increase	USD	1,386	1,260	1,650	1,500
MFF	Hedge/Member	Increase	USD	1,260	1,260	1,500	1,500

COAL API4 RCH BAY ARGS MCCLOSKEY FUT : MFF-15 vs MFF-20 (COAL API4 RCH BAY ARGS MCCLOSKEY FUT)

MFF	Spec	Increase	USD	1,386	1,260	1,650	1,500
MFF	Hedge/Member	Increase	USD	1,260	1,260	1,500	1,500

COAL API4 RCH BAY ARGS MCCLOSKEY FUT : MFF-15 vs MFF-21 (COAL API4 RCH BAY ARGS MCCLOSKEY FUT)

MFF	Spec	Increase	USD	1,386	1,260	1,650	1,500
MFF	Hedge/Member	Increase	USD	1,260	1,260	1,500	1,500

COAL API4 RCH BAY ARGS MCCLOSKEY FUT : MFF-15 vs MFF-22 (COAL API4 RCH BAY ARGS MCCLOSKEY FUT)

MFF	Spec	Increase	USD	1,386	1,260	1,650	1,500
MFF	Hedge/Member	Increase	USD	1,260	1,260	1,500	1,500

COAL API4 RCH BAY ARGS MCCLOSKEY FUT : MFF-15 vs MFF-23 (COAL API4 RCH BAY ARGS MCCLOSKEY FUT)

MFF	Spec	Increase	USD	1,386	1,260	1,650	1,500
MFF	Hedge/Member	Increase	USD	1,260	1,260	1,500	1,500

COAL API4 RCH BAY ARGS MCCLOSKEY FUT : MFF-15 vs MFF-24 (COAL API4 RCH BAY ARGS MCCLOSKEY FUT)

MFF	Spec	Increase	USD	1,386	1,260	1,650	1,500
MFF	Hedge/Member	Increase	USD	1,260	1,260	1,500	1,500

COAL API4 RCH BAY ARGS MCCLOSKEY FUT : MFF-15 vs MFF-25 (COAL API4 RCH BAY ARGS MCCLOSKEY FUT)

MFF	Spec	Increase	USD	1,386	1,260	1,650	1,500
MFF	Hedge/Member	Increase	USD	1,260	1,260	1,500	1,500

COAL API4 RCH BAY ARGS MCCLOSKEY FUT : MFF-15 vs MFF-26 (COAL API4 RCH BAY ARGS MCCLOSKEY FUT)

MFF	Spec	Increase	USD	1,386	1,260	1,650	1,500
MFF	Hedge/Member	Increase	USD	1,260	1,260	1,500	1,500

CRUDE OIL - Intra Spreads

All Months (LOOP CRUDE OIL STORAGE FUTURES)

LPS	Spec	Decrease	USD	413	375	303	275
LPS	Hedge/Member	Decrease	USD	375	375	275	275

LOOP Gulf Coast Sour Crude Oil Futures - All Months (LOOP GULF COAST SOUR CRUDE OIL)

MB	Spec	Decrease	USD	1,100	1,000	880	800
MB	Hedge/Member	Decrease	USD	1,000	1,000	800	800

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
Intra Spreads								
ELECTRICITY - Intra Spreads								
AEP-Dayton Hub Peak Monthly Electricity Futures - Off-Peak - All Months (AEP-DAYTON HUB OFF-PEAK MONTHLY)								
VP	Spec		Increase	USD	3,300	3,000	3,850	3,500
VP	Hedge/Member		Increase	USD	3,000	3,000	3,500	3,500
AEP-Dayton Hub Peak Monthly Electricity Futures - Peak - All Months (AER-DAYTON HUB MONTHLY)								
VM	Spec		Increase	USD	3,300	3,000	4,950	4,500
VM	Hedge/Member		Increase	USD	3,000	3,000	4,500	4,500
CAISO SP15 EZ Gen Hub 5 MW Peak Calendar-Day Day-Ahead LMP Futures (CAISO SP15 EZGNHUB5 PEAK CLN D)								
9Z	Spec		New	USD			743	675
9Z	Hedge/Member		New	USD			675	675
Cinergy Hub Off-Peak LMP Swap - All Months (MISO INDIANA HUB OFF-PEAK MO FUT)								
EJ	Spec		Increase	USD	3,300	3,000	4,950	4,500
EJ	Hedge/Member		Increase	USD	3,000	3,000	4,500	4,500
ISO New England Internal Hub Location Marginal Pri - All Months (ISO NEW ENGLAND OFF-PEAK LMP FUT)								
KI	Spec		Increase	USD	7,700	7,000	10,450	9,500
KI	Hedge/Member		Increase	USD	7,000	7,000	9,500	9,500
Mid-Columbia Day-Ahead Peak Calendar-Month 5 MW Futures - All Months (MID-COLUMBIA DAY AHEAD PEAK FIX PRI)								
MDC	Spec		Increase	USD	209	190	418	380
MDC	Hedge/Member		Increase	USD	190	190	380	380
Midwest ISO Michigan Hub 5 MW Off-Peak Calendar-Month Day-Ahead Swap Futures - All Months (MISO MICHIGAN HUB OF-PK DA MONTHLY)								
HMO	Spec		Increase	USD	33	30	39	35
HMO	Hedge/Member		Increase	USD	30	30	35	35
NYISO Zone J LBMP Swap - Off-Peak - All Months (NYISO J OFF-PEAK)								
KK	Spec		Increase	USD	6,600	6,000	7,700	7,000
KK	Hedge/Member		Increase	USD	6,000	6,000	7,000	7,000
NYISO Zone J LBMP Swap - Peak - All Months (NYISO J)								
KJ	Spec		Increase	USD	3,850	3,500	4,400	4,000
KJ	Hedge/Member		Increase	USD	3,500	3,500	4,000	4,000
NYISO Zone J LBMP Swap - Peak - All Months (NYISO ZONE J 5MW D AH PK)								
D3	Spec		Increase	USD	770	700	880	800
D3	Hedge/Member		Increase	USD	700	700	800	800
PJM AEP Dayton Hub Off-Peak Calendar-Month Day-Ahead LMP - All Months (PJM DAYTON DA OFF-PEAK)								
R7	Spec		Increase	USD	22	20	28	25
R7	Hedge/Member		Increase	USD	20	20	25	25

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

PJM BGE ZONE PEAK CALENDAR MONTH DAY AHEAD LMP - All Months (PJM BGE DA PEAK)

E3	Spec		Increase	USD	440	400	495	450
E3	Hedge/Member		Increase	USD	400	400	450	450

PJM COM-ED 5MW DAY AHEAD OFF PEAK - All Months (PJM COMED 5MW D AH O PK)

D9	Spec		Increase	USD	17	15	22	20
D9	Hedge/Member		Increase	USD	15	15	20	20

PJM Financially Settled Monthly Electricity Futures - All Months (PJM OFF-PEAK LMP FUT)

JP	Spec		Increase	USD	4,400	4,000	4,950	4,500
JP	Hedge/Member		Increase	USD	4,000	4,000	4,500	4,500

PJM Meted Zone Peak Calendar-Month Day-Ahead LMP - All Months (PJM METED ZONE PK CAL LMP FUTURES)

47	Spec		Increase	USD	440	400	550	500
47	Hedge/Member		Increase	USD	400	400	500	500

PJM PSEG Zone Off- Peak Calendar-Month Day-Ahead LMP - All Months (PJM PSEG DA OFF-PEAK)

W6	Spec		Increase	USD	33	30	44	40
W6	Hedge/Member		Increase	USD	30	30	40	40

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

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

ETHANOL - Intra Spreads

Chicago Ethanol (Platts) Swap, Mth 2 vs. Mths 3-7 (CHICAGO ETHANOL FUT)

CU	Spec	Increase	USD	605	550	825	750
CU	Hedge/Member	Increase	USD	550	550	750	750

Chicago Ethanol (Platts) Swap, Mth 1 vs. Mth 2 (CHICAGO ETHANOL FUT)

CU	Spec	Increase	USD	1,540	1,400	1,980	1,800
CU	Hedge/Member	Increase	USD	1,400	1,400	1,800	1,800

Chicago Ethanol (Platts) Swap, Mth 1 vs. Mths 3-7 (CHICAGO ETHANOL FUT)

CU	Spec	Increase	USD	880	800	1,320	1,200
CU	Hedge/Member	Increase	USD	800	800	1,200	1,200

Chicago Ethanol (Platts) Swap, Mth 1 vs. Mths 8+ (CHICAGO ETHANOL FUT)

CU	Spec	Increase	USD	1,650	1,500	2,310	2,100
CU	Hedge/Member	Increase	USD	1,500	1,500	2,100	2,100

Chicago Ethanol (Platts) Swap, Mth 2 vs. Mths 8+ (CHICAGO ETHANOL FUT)

CU	Spec	Increase	USD	1,650	1,500	2,475	2,250
CU	Hedge/Member	Increase	USD	1,500	1,500	2,250	2,250

Chicago Ethanol (Platts) Swap, Mths 3-7 vs. Mths 3-7 (CHICAGO ETHANOL FUT)

CU	Spec	Increase	USD	715	650	990	900
CU	Hedge/Member	Increase	USD	650	650	900	900

Chicago Ethanol (Platts) Swap, Mths 3-7 vs. Mths 8+ (CHICAGO ETHANOL FUT)

CU	Spec	Increase	USD	1,430	1,300	2,145	1,950
CU	Hedge/Member	Increase	USD	1,300	1,300	1,950	1,950

PETROLEUM CRACKS AND SPREADS - Intra Spreads

All Months (NY BUCKEYE JET FUEL VS NY HARB ULSD)

JET	Spec	Increase	USD	825	750	990	900
JET	Hedge/Member	Increase	USD	750	750	900	900

Singapore Fuel Oil 180 cst vs. 380 cst (Platts) Futures - All Months (SING FUEL OIL 180 V. 380 CST FUT)

DSD	Spec	New	USD			1,870	1,700
DSD	Hedge/Member	New	USD			1,700	1,700

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

REFINED PRODUCTS - Intra Spreads

Singapore Fuel Oil 180 cst (Platts) Futures - All Months (SINGAPORE FUEL OIL180CST PLATTS FUT)

DUP	Spec		New	USD			8,580	7,800
DUP	Hedge/Member		New	USD			7,800	7,800

Singapore Fuel Oil 180 cst (Platts) Futures - Consecutive Mths 2 vs 3 + (SINGAPORE FUEL OIL180CST PLATTS FUT)

DUP	Spec		New	USD			3,300	3,000
DUP	Hedge/Member		New	USD			3,000	3,000

Singapore Fuel Oil 380 cst (Platts) Futures - All Months (SINGAPORE FUEL OIL 380CST PLATT FUT)

DSE	Spec		New	USD			6,600	6,000
DSE	Hedge/Member		New	USD			6,000	6,000

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
AGRICULTURE - Inter-commodity Spread Rates						
CORN (C - CME) vs NY ETHANOL (PLATTS) SWAP FUTURES (NY-EZ - CME)						
Spread Credit Rate	Decrease	+4:-1	60%	60%	40%	40%
CRUDE OIL - Inter-commodity Spread Rates						
LIGHT SWEET CRUDE OIL FUTURES (NY-CL - CME) vs PALLADIUM FUTURES (NY-PA - CME)						
Spread Credit Rate	Decrease	+1:-1	30%	30%	25%	25%
PALLADIUM FUTURES (NY-PA - CME) vs BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME)						
Spread Credit Rate	Decrease	+1:-1	45%	45%	35%	35%
ELECTRICITY - Inter-commodity Spread Rates						
HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs PJM NORTHERN ILLINOIS HUB 5 MW OFF-PEAK CALENDAR-MONTH REAL-TIME LMP SWAP FUTURES (NY-B6 - CME)						
Spread Credit Rate	Decrease	+1:-194	50%	50%	45%	45%
HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs PJM NORTHERN ILLINOIS HUB OFF-PEAK CALENDAR-MONTH DAY-AHEAD LMP SWAP FUTURES (NY-L3 - CME)						
Spread Credit Rate	Decrease	+1:-194	50%	50%	45%	45%
HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs PJM WESTERN HUB OFF-PEAK CALENDAR-MONTH REAL-TIME LMP SWAP FUTURES (NY-N9 - CME)						
Spread Credit Rate	Decrease	+1:-194	55%	55%	50%	50%
PJM AECO ZONE OFF-PEAK CALENDAR-MONTH DA LMP SWAP FUT (NY-X1-CME) vs PJM OFF-PEAK CALENDAR-MONTH LMP SWAP FUT (NY-JP-CME)						
Spread Credit Rate	Decrease	+188:-1	75%	75%	70%	70%
PJM ComEd Zone 5 MW Off-Peak Calendar-Month Day-Ahead LMP Futures (NY-D9-CME) vs PJM Off-Peak Calendar-Month LMP Futures (NY-JP-CME)						
Spread Credit Rate	Decrease	+188:-1	75%	75%	65%	65%
PJM NORTHERN ILLINOIS HUB 5 MW OFF-PEAK CALENDAR-MONTH REAL-TIME LMP SWAP FUTURES (NY-B6 - CME) vs HENRY HUB NATURAL GAS FUTURES (NY-NG - CME)						
Spread Credit Rate	Decrease	+194:-1	50%	50%	45%	45%
PJM WESTERN HUB OFF-PEAK CALENDAR-MONTH REAL-TIME LMP SWAP (NYM-N9 - CME) vs HENRY HUB NATURAL GAS (NYM-NG, NN, HP)						
Spread Credit Rate	Decrease	+194:-1	55%	55%	50%	50%
ETHANOL - Inter-commodity Spread Rates						
CORN (C - CME) vs NY ETHANOL (PLATTS) SWAP FUTURES (NY-EZ - CME)						
Spread Credit Rate	Decrease	+4:-1	60%	60%	40%	40%

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						
GOLD FUTURES (CX-GC - CME) vs JAPANESE YEN (JY - CME)						
Spread Credit Rate	Increase	+1:-1	30%	30%	40%	40%
INTEREST RATES - Inter-commodity Spread Rates						
5-YEAR T-NOTE (25 - CME) vs U.S. TREASURY BOND (17 - CME)						
Spread Credit Rate	Increase	+5:-1	60%	60%	65%	65%

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						
ALUMINIUM A-380 ALLOY PLATTS (20 MT) FUTURES (CX-A38 - CME) vs COPPER FUTURES (CX-HG - CME)						
Spread Credit Rate	Decrease	+1:-1	35%	35%	25%	25%
ALUMINIUM EUROPEAN PREMIUM METAL BULLETIN (25MT-DUTY UNPAID) FUTURES (CX-AEP - CME) vs ALUMINUM FUTURES (CX-ALI - CME)						
Spread Credit Rate	Increase	+7:-1	20%	20%	35%	35%
ALUMINIUM EUROPEAN PREMIUM METAL BULLETIN (25MT-DUTY UNPAID) FUTURES (CX-AEP - CME) vs ALUMINUM MW US TRANSACTION PREMIUM PLATTS (25MT) SWAP FUTURES (CX-AUP - CME)						
Spread Credit Rate	Increase	+7:-5	20%	20%	30%	30%
ALUMINUM FUTURES (CX-ALI - CME) vs ALUMINUM MW US TRANSACTION PREMIUM PLATTS (25MT) SWAP FUTURES (CX-AUP - CME)						
Spread Credit Rate	Increase	+1:-1	20%	20%	30%	30%
ALUMINUM FUTURES (CX-ALI - CME) vs PALLADIUM FUTURES (NY-PA - CME)						
Spread Credit Rate	Decrease	+1:-1	35%	35%	25%	25%
ALUMINUM FUTURES (CX-ALI - CME) vs PLATINUM FUTURES (NY-PL - CME)						
Spread Credit Rate	Decrease	+1:-1	40%	40%	30%	30%
ALUMINUM JAPAN PREMIUM (PLATTS) FUTURES (CX-MJP - CME) vs ALUMINUM MW US TRANSACTION PREMIUM PLATTS (25MT) SWAP FUTURES (CX-AUP - CME)						
Spread Credit Rate	Increase	+2:-1	35%	35%	45%	45%
CLEARED OTC LONDON GOLD FORWARDS (COLLATERAL MARGIN) (CX-GB - CME) vs PALLADIUM FUTURES (NY-PA - CME).						
Spread Credit Rate	Decrease	+100:-1	45%	45%	30%	30%
COMEX COPPER (CMX-HG - CME) vs COMEX SILVER (CMX-SI - CME)						
Spread Credit Rate	Increase	+2:-1	45%	45%	55%	55%
COMEX GOLD (CMX-GC - CME) vs COMEX SILVER (CMX-SI - CME)						
Spread Credit Rate	Increase	+1:-1	70%	70%	74%	74%
COMEX GOLD (CMX-GC - CME) vs PLATINUM FUTURES (NYM-PL - CME)						
Spread Credit Rate	Increase	+1:-2	70%	70%	74%	74%
GOLD FUTURES (CX-GC - CME) vs JAPANESE YEN (JY - CME)						
Spread Credit Rate	Increase	+1:-1	30%	30%	40%	40%
GOLD FUTURES (CX-GC - CME) vs PALLADIUM FUTURES (NY-PA - CME)						
Spread Credit Rate	Decrease	+1:-2	50%	50%	30%	30%
IRON ORE FUTURES (NY-TIO - CME) vs COPPER FUTURES (CX-HG - CME)						
Spread Credit Rate	Decrease	+1:-1	50%	50%	45%	45%
KILO GOLD FUTURES (CX-GCK - CME) vs GOLD FUTURES (CX-GC - CME)						
Spread Credit Rate	Increase	+3:-1	95%	95%	97%	97%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
KILO GOLD FUTURES (CX-GCK - CME) vs PALLADIUM FUTURES (NY-PA - CME)						
Spread Credit Rate	Decrease	+3:-2	45%	45%	30%	30%
KILO GOLD FUTURES (CX-GCK - CME) vs PLATINUM FUTURES (NY-PL - CME)						
Spread Credit Rate	Increase	+3:-2	60%	60%	65%	65%
LEAD FUTURES (CX-LED - CME) vs ALUMINUM FUTURES (CX-ALI - CME)						
Spread Credit Rate	Decrease	+1:-1	40%	40%	20%	20%
LEAD FUTURES (CX-LED - CME) vs SILVER FUTURES (CX-SI - CME)						
Spread Credit Rate	Increase	+7:-4	20%	20%	30%	30%
LEAD FUTURES (CX-LED - CME) vs ZINC FUTURES (CX-ZNC - CME)						
Spread Credit Rate	Increase	+1:-1	55%	55%	65%	65%
LIGHT SWEET CRUDE OIL FUTURES (NY-CL - CME) vs PALLADIUM FUTURES (NY-PA - CME)						
Spread Credit Rate	Decrease	+1:-1	30%	30%	25%	25%
PALLADIUM FUTURES (NY-PA - CME) vs BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME)						
Spread Credit Rate	Decrease	+1:-1	45%	45%	35%	35%
PLATINUM FUTURES (NYM-PL - CME) vs PALLADIUM (NYM-PA - CME)						
Spread Credit Rate	Decrease	+2:-1	65%	65%	45%	45%

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						
CIG ROCKIES BASIS SWAP (PLATTS IFERC) FUTURES (NY-CI - CME) vs NGPL MID-CON BASIS SWAP (PLATTS IFERC) FUTURES (NY-NL - CME)						
Spread Credit Rate	Decrease	+1:-1	45%	45%	40%	40%
EL PASO NATURAL GAS CO. PERMIAN BASIN BASIS SWAP (NYM-PM - CME) vs SAN JUAN BASIS SWAP (PLATTS IFERC) (NYM-NJ - CME)						
Spread Credit Rate	Decrease	+1:-1	70%	70%	60%	60%
HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs PJM NORTHERN ILLINOIS HUB 5 MW OFF-PEAK CALENDAR-MONTH REAL-TIME LMP SWAP FUTURES (NY-B6 - CME)						
Spread Credit Rate	Decrease	+1:-194	50%	50%	45%	45%
HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs PJM NORTHERN ILLINOIS HUB OFF-PEAK CALENDAR-MONTH DAY-AHEAD LMP SWAP FUTURES (NY-L3 - CME)						
Spread Credit Rate	Decrease	+1:-194	50%	50%	45%	45%
HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs PJM WESTERN HUB OFF-PEAK CALENDAR-MONTH REAL-TIME LMP SWAP FUTURES (NY-N9 - CME)						
Spread Credit Rate	Decrease	+1:-194	55%	55%	50%	50%
HOUSTON SHIP CHANNEL BASIS SWAP (PLATTS IFERC) FUTURES (NY-NH - CME) vs SAN JUAN BASIS SWAP (PLATTS IFERC) FUTURES (NY-NJ - CME)						
Spread Credit Rate	Decrease	+1:-1	55%	55%	40%	40%
NGPL MID-CON BASIS SWAP (PLATTS IFERC) FUTURES (NY-NL - CME) vs PERMIAN BASIS SWAP (PLATTS IFERC) FUTURES (NY-PM - CME)						
Spread Credit Rate	Decrease	+1:-1	55%	55%	50%	50%
PANHANDLE BASIS SWAP (PLATTS IFERC) (NYM-PH - CME) vs SAN JUAN BASIS SWAP (PLATTS IFERC) (NYM-NJ - CME)						
Spread Credit Rate	Decrease	+1:-1	45%	45%	40%	40%
PJM NORTHERN ILLINOIS HUB 5 MW OFF-PEAK CALENDAR-MONTH REAL-TIME LMP SWAP FUTURES (NY-B6 - CME) vs HENRY HUB NATURAL GAS FUTURES (NY-NG - CME)						
Spread Credit Rate	Decrease	+194:-1	50%	50%	45%	45%
PJM WESTERN HUB OFF-PEAK CALENDAR-MONTH REAL-TIME LMP SWAP (NYM-N9 - CME) vs HENRY HUB NATURAL GAS (NYM-NG, NN, HP)						
Spread Credit Rate	Decrease	+194:-1	55%	55%	50%	50%
SAN JUAN BASIS SWAP (PLATTS IFERC) (NYM-NJ - CME) vs NORTHWEST PIPELINE, ROCKIES BASIS SWAP (PLATTS IFE (NYM-NR - CME)						
Spread Credit Rate	Decrease	+1:-1	65%	65%	55%	55%
SAN JUAN BASIS SWAP (PLATTS IFERC) (NYM-NJ - CME) vs SOCAL BASIS SWAP (NGI) (NYM-NS - CME)						
Spread Credit Rate	Decrease	+1:-1	70%	70%	55%	55%
SAN JUAN BASIS SWAP (PLATTS IFERC) FUTURES (NY-NJ - CME) vs CENTERPOINT NATURAL GAS BASIS SWAP (PLATTS IFERC) FUTURES (NY-PW - CME)						
Spread Credit Rate	Decrease	+1:-1	30%	30%	20%	20%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
SAN JUAN BASIS SWAP (PLATTS IFERC) FUTURES (NY-NJ - CME) vs NGPL MID-CON BASIS SWAP (PLATTS IFERC) FUTURES (NY-NL - CME)						
Spread Credit Rate	Decrease	+1:-1	50%	50%	45%	45%
SAN JUAN BASIS SWAP (PLATTS IFERC) FUTURES (NY-NJ - CME) vs ONEOK, OKLAHOMA BASIS SWAP (PLATTS IFERC) FUTURES (NY-8X - CME)						
Spread Credit Rate	Decrease	+1:-1	50%	50%	40%	40%
WAHA BASIS SWAP (PLATTS IFERC) (NYM-NW - CME) vs SAN JUAN BASIS SWAP (PLATTS IFERC) (NYM-NJ - CME)						
Spread Credit Rate	Decrease	+1:-1	60%	60%	45%	45%
PETROLEUM CRACKS AND SPREADS - Inter-commodity Spread Rates						
SINGAPORE FUEL OIL 180 CST VS. 380 CST (PLATTS) FUTURES (NY-DSD - CME) vs SINGAPORE FUEL OIL 380 CST (PLATTS) FUTURES (NY-DSE - CME) vs SINGAPORE FUEL OIL 180 CST (PLATTS) FUTURES (NY-DUP - CME)						
Spread Credit Rate	New	+1:+1:-1			98%	98%
REFINED PRODUCTS - Inter-commodity Spread Rates						
SINGAPORE FUEL OIL 180 CST VS. 380 CST (PLATTS) FUTURES (NY-DSD - CME) vs SINGAPORE FUEL OIL 380 CST (PLATTS) FUTURES (NY-DSE - CME) vs SINGAPORE FUEL OIL 180 CST (PLATTS) FUTURES (NY-DUP - CME)						
Spread Credit Rate	New	+1:+1:-1			98%	98%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	<u>Tier Description</u>	Change	Current Initial	Current Maintenance	New Initial	New Maintenance
Short Option Minimum (SOM) Rate						
PETROLEUM CRACKS AND SPREADS - Short Option Minimum (SOM) Rate						
SINGAPORE FUEL OIL 180 CST VS. 380 CST (PLATTS) FUTURES (DSD) - SOM						
Clearing Member Rate		New			11.000	10.000
REFINED PRODUCTS - Short Option Minimum (SOM) Rate						
SINGAPORE FUEL OIL 180 CST (PLATTS) FUTURES (DUP) - SOM						
Clearing Member Rate		New			275.000	250.000
SINGAPORE FUEL OIL 380 CST (PLATTS) FUTURES (DSE) - SOM						
Clearing Member Rate		New			275.000	250.000

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Tier Description	Change	Current Initial	Current Maintenance	New Initial	New Maintenance
Volatility Scan (volScan) Rate						

PETROLEUM CRACKS AND SPREADS - Volatility Scan (volScan) Rate

SINGAPORE FUEL OIL 180 CST VS. 380 CST (PLATTS) FUTURES (DSD) - volScan

Clearing Member Rate	Mnths 1	New	0.050
Clearing Member Rate	Mnths 2-4	New	0.050
Clearing Member Rate	Mnths 5-25	New	0.050
Clearing Member Rate	Mnths 26+	New	0.050

REFINED PRODUCTS - Volatility Scan (volScan) Rate

SINGAPORE FUEL OIL 180 CST (PLATTS) FUTURES (DUP) - volScan

Clearing Member Rate	Mnth 1	New	0.050
Clearing Member Rate	Mnth 2	New	0.030
Clearing Member Rate	Mnths 3-7	New	0.020
Clearing Member Rate	Mnths 8+	New	0.020

SINGAPORE FUEL OIL 380 CST (PLATTS) FUTURES (DSE) - volScan

Clearing Member Rate	Mnth 1	New	0.070
Clearing Member Rate	Mnths 2-6	New	0.040
Clearing Member Rate	Mnths 7+	New	0.030

Inter-commodity Volatility Credits					
Product 1	Contract/Tier	Product 2	Contract/Tier	Existing Credit	New Credit
(26) Two Year Treasury T-Note	All	(21) Ten Year Treasury T-Note	All	0%	70%
(26) Two Year Treasury T-Note	All	(TN) Ultra-10 Treasury T-Note	All	0%	55%
(25) Five Year Treasury T-Note	All	(21) Ten Year Treasury T-Note	All	0%	75%
(25) Five Year Treasury T-Note	All	(TN) Ultra-10 Treasury T-Note	All	0%	75%