CH Advisory 16 462

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

FROM: CME Clearing

SUBJECT: Performance Bond Requirements

DATE: Wednesday, November 02, 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

Thursday, November 03, 2016.

Current rates as of:

Wednesday, November 02, 2016.

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								
$25 DOW JONES INDEX (DO)								
DO	Spec		Increase	USD	19,525	17,750	21,175	19,250
DO	Hedge/Member		Increase	USD	17,750	17,750	19,250	19,250
$10DOW JONES FUTURES (11)								
11	Spec		Increase	USD	7,810	7,100	8,470	7,700
11	Hedge/Member		Increase	USD	7,100	7,100	7,700	7,700
BTIC E-MINI S&P MIDCAP 400 FUT (EMT)								
EMT	Spec		Increase	USD	6,820	6,200	7,370	6,700
EMT	Hedge/Member		Increase	USD	6,200	6,200	6,700	6,700
BTIC ON E-MINI DJIA FUTURES (YMT)								
YMT	Spec		Increase	USD	3,905	3,550	4,235	3,850
YMT	Hedge/Member		Increase	USD	3,550	3,550	3,850	3,850
BTIC ON E-MINI NASDAQ-100 FUTURES (NQT)								
NQT	Spec		Increase	USD	3,960	3,600	4,400	4,000
NQT	Hedge/Member		Increase	USD	3,600	3,600	4,000	4,000
BTIC ON E-MINI S&P 500 FUTURES (EST)								
EST	Spec		Increase	USD	4,950	4,500	5,225	4,750
EST	Hedge/Member		Increase	USD	4,500	4,500	4,750	4,750
E-MINI DJIA FUTURES MARKER (YMI)								
YMI	Spec		Increase	USD	3,905	3,550	4,235	3,850
YMI	Hedge/Member		Increase	USD	3,550	3,550	3,850	3,850
E-MINI DOW JONES INDEX (YM)								
YM	Spec		Increase	USD	3,905	3,550	4,235	3,850
YM	Hedge/Member		Increase	USD	3,550	3,550	3,850	3,850
EMINI MIDCAP FUTURES (ME)								
ME	Spec		Increase	USD	6,820	6,200	7,370	6,700
ME	Hedge/Member		Increase	USD	6,200	6,200	6,700	6,700
E-MINI NASDAQ 100 FUTURES (NQ)								
NQ	Spec		Increase	USD	3,960	3,600	4,400	4,000
NQ	Hedge/Member		Increase	USD	3,600	3,600	4,000	4,000
E-MINI NASDAQ-100 FUTURES MARKER (NQI)								
NQI	Spec		Increase	USD	3,960	3,600	4,400	4,000
NQI	Hedge/Member		Increase	USD	3,600	3,600	4,000	4,000
E-MINI S&P 500 FUTURES MARKER (ESI)								

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
Outright Rates								
ES	Spec		Increase	USD	4,950	4,500	5,225	4,750
ES	Hedge/Member		Increase	USD	4,500	4,500	4,750	4,750
E-MINI S&P 500 FUTURES (ES)								
ESI	Spec		Increase	USD	4,950	4,500	5,225	4,750
ESI	Hedge/Member		Increase	USD	4,500	4,500	4,750	4,750
E-MINI S&P MIDCAP 400 SYNT MARKER (ETT)								
ETT	Spec		Increase	USD	6,820	6,200	7,370	6,700
ETT	Hedge/Member		Increase	USD	6,200	6,200	6,700	6,700
EMINI SP 500 ENERGY SECTOR INDEX (XAE)								
XAE	Spec		Increase	USD	3,630	3,300	3,960	3,600
XAE	Hedge/Member		Increase	USD	3,300	3,300	3,600	3,600
EMINI SP500- HEALTH CARE SECT INDEX (XAV)								
XAV	Spec		Increase	USD	2,970	2,700	3,300	3,000
XAV	Hedge/Member		Increase	USD	2,700	2,700	3,000	3,000
EMINI SP500 MATERIALS SECTOR INDEX (XAB)								
XAB	Spec		Increase	USD	2,530	2,300	2,750	2,500
XAB	Hedge/Member		Increase	USD	2,300	2,300	2,500	2,500
EMINI SP500-INDUSTRIAL SECTOR INDEX (XAI)								
XAI	Spec		Increase	USD	2,200	2,000	2,420	2,200
XAI	Hedge/Member		Increase	USD	2,000	2,000	2,200	2,200
EMINI SP500-UTILITIES SECTOR INDEX (XAU)								
XAU	Spec		Increase	USD	1,650	1,500	1,815	1,650
XAU	Hedge/Member		Increase	USD	1,500	1,500	1,650	1,650
NASDAQ 100 FUTURES (ND)								
ND	Spec		Increase	USD	19,800	18,000	22,000	20,000
ND	Hedge/Member		Increase	USD	18,000	18,000	20,000	20,000
S&P 400 FUTURES (MD)								
MD	Spec		Increase	USD	34,100	31,000	36,850	33,500
MD	Hedge/Member		Increase	USD	31,000	31,000	33,500	33,500
S&P 500 FUTURES (SP)								
SP	Spec		Increase	USD	24,750	22,500	26,125	23,750
SP	Hedge/Member		Increase	USD	22,500	22,500	23,750	23,750
SP 500 - INDUSTRIAL SEL SECTOR SYNT (1IT)								
1IT	Spec		Increase	USD	2,200	2,000	2,420	2,200
1IT	Hedge/Member		Increase	USD	2,000	2,000	2,200	2,200

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
Outright Rates								
SP 500 ENERGY SELECT SECTOR TIC (XET)								
XET	Spec		Increase	USD	3,630	3,300	3,960	3,600
XET	Hedge/Member		Increase	USD	3,300	3,300	3,600	3,600
SP 500 ENERGY SLCT SEC SYNTHETIC (1ET)								
1ET	Spec		Increase	USD	3,630	3,300	3,960	3,600
1ET	Hedge/Member		Increase	USD	3,300	3,300	3,600	3,600
SP 500 HEALTH CARE SECTOR SYNTHETIC (1VT)								
1VT	Spec		Increase	USD	2,970	2,700	3,300	3,000
1VT	Hedge/Member		Increase	USD	2,700	2,700	3,000	3,000
SP 500 HEALTH CARE SECTOR TIC (XVT)								
XVT	Spec		Increase	USD	2,970	2,700	3,300	3,000
XVT	Hedge/Member		Increase	USD	2,700	2,700	3,000	3,000
SP 500 INDUSTTRIAL SECTOR TIC (XIT)								
XIT	Spec		Increase	USD	2,200	2,000	2,420	2,200
XIT	Hedge/Member		Increase	USD	2,000	2,000	2,200	2,200
SP 500 MATERIALS SEL SECTOR SYNTH (1BT)								
1BT	Spec		Increase	USD	2,530	2,300	2,750	2,500
1BT	Hedge/Member		Increase	USD	2,300	2,300	2,500	2,500
SP 500 MATERIALS SEL SECTOR TIC (XBT)								
XBT	Spec		Increase	USD	2,530	2,300	2,750	2,500
XBT	Hedge/Member		Increase	USD	2,300	2,300	2,500	2,500
SP 500 UTILITIES SEL SECTOR SYNTH (1UT)								
1UT	Spec		Increase	USD	1,650	1,500	1,815	1,650
1UT	Hedge/Member		Increase	USD	1,500	1,500	1,650	1,650
SP 500 UTILITIES SEL SECTOR TIC (XUT)								
XUT	Spec		Increase	USD	1,650	1,500	1,815	1,650
XUT	Hedge/Member		Increase	USD	1,500	1,500	1,650	1,650

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
Outright Rates								
			FX - Outright Rates					
AFRICAN RAND FUTURES (RA)								
RA	Spec		Increase	USD	1,705	1,550	1,870	1,700
RA	Hedge/Member		Increase	USD	1,550	1,550	1,700	1,700
AUSTRALIAN DOLLAR FUTURES (AD)								
AD	Spec		Increase	USD	1,980	1,800	2,200	2,000
AD	Hedge/Member		Increase	USD	1,800	1,800	2,000	2,000
BRAZILIAN REAL FUTURES (BR)								
BR	Spec	Jan 16 - Dec 16	Increase	USD	2,420	2,200	2,750	2,500
BR	Hedge/Member	Jan 16 - Dec 16	Increase	USD	2,200	2,200	2,500	2,500
CANADIAN DOLLAR FUTURES (CD)								
CD	Spec		Increase	USD	1,705	1,550	1,925	1,750
CD	Hedge/Member		Increase	USD	1,550	1,550	1,750	1,750
E-MICRO AUD/USD FUTURES (M6A)								
M6A	Spec		Increase	USD	198	180	220	200
M6A	Hedge/Member		Increase	USD	180	180	200	200
E-MICRO CAD/USD FUTURES (MCD)								
MCD	Spec		Increase	USD	171	155	193	175
MCD	Hedge/Member		Increase	USD	155	155	175	175
E-MICRO INR/USD FUTURE (MIR)								
MIR	Spec		Increase	USD	308	280	352	320
MIR	Hedge/Member		Increase	USD	280	280	320	320
E-MICRO USD/CNH FUTURES (MNH)								
MNH	Spec	Months 1-3	Increase	CNH	1,980	1,800	2,365	2,150
MNH	Hedge/Member	Months 1-3	Increase	CNH	1,800	1,800	2,150	2,150
MNH	Spec	Months 4+	Increase	CNH	1,980	1,800	2,365	2,150
MNH	Hedge/Member	Months 4+	Increase	CNH	1,800	1,800	2,150	2,150
INR/USD FUTURE (SIR)								
SIR	Spec		Increase	USD	1,540	1,400	1,760	1,600
SIR	Hedge/Member		Increase	USD	1,400	1,400	1,600	1,600
MEXICAN PESO FUTURES (MP)								
MP	Spec		Increase	USD	1,705	1,550	1,925	1,750
MP	Hedge/Member		Increase	USD	1,550	1,550	1,750	1,750

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
Outright Rates								
RU RUSSIAN RUBLE FUTURES (RU)								
RU	Spec	Jan 16 - Dec 16	Increase	USD	4,950	4,500	5,500	5,000
RU	Hedge/Member	Jan 16 - Dec 16	Increase	USD	4,500	4,500	5,000	5,000
RU	Spec	Jan 17 - Dec 17	Increase	USD	6,160	5,600	6,765	6,150
RU	Hedge/Member	Jan 17 - Dec 17	Increase	USD	5,600	5,600	6,150	6,150
USD/CNH FUTURES (CNH)								
CNH	Spec	Months 1-3	Increase	CNH	19,800	18,000	23,650	21,500
CNH	Hedge/Member	Months 1-3	Increase	CNH	18,000	18,000	21,500	21,500
CNH	Spec	Months 4+	Increase	CNH	19,800	18,000	23,650	21,500
CNH	Hedge/Member	Months 4+	Increase	CNH	18,000	18,000	21,500	21,500
INTEREST RATES - Outright Rates								
30 YR U.S. TREASURY BOND FUTURES (17)								
17	Spec	Month 1	Increase	USD	4,125	3,750	4,400	4,000
17	Hedge/Member	Month 1	Increase	USD	3,750	3,750	4,000	4,000
17	Spec	Month 2+	Increase	USD	4,125	3,750	4,400	4,000
17	Hedge/Member	Month 2+	Increase	USD	3,750	3,750	4,000	4,000
5 YR TREASURY NOTE FUTURES (25)								
25	Spec		Increase	USD	880	800	935	850
25	Hedge/Member		Increase	USD	800	800	850	850
LONG TERM U.S. TREASURY BOND FUTURE (UBE)								
UBE	Spec		Increase	USD	5,060	4,600	5,500	5,000
UBE	Hedge/Member		Increase	USD	4,600	4,600	5,000	5,000
ULTRA 10-YEAR U S TREASURY NOTE FUT (TN)								
TN	Spec		Increase	USD	1,980	1,800	2,200	2,000
TN	Hedge/Member		Increase	USD	1,800	1,800	2,000	2,000

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

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

Outright Rates

METALS - Outright Rates

GOLD KILO FUTURES (GCK)

GCK	Spec	Mnth1	Increase	USD	1,914	1,740	2,126	1,933
GCK	Hedge/Member	Mnth1	Increase	USD	1,740	1,740	1,933	1,933
GCK	Spec	Mnth2	Increase	USD	1,914	1,740	2,126	1,933
GCK	Hedge/Member	Mnth2	Increase	USD	1,740	1,740	1,933	1,933
GCK	Spec	Mnth3	Increase	USD	1,914	1,740	2,126	1,933
GCK	Hedge/Member	Mnth3	Increase	USD	1,740	1,740	1,933	1,933
GCK	Spec	Mnth4	Increase	USD	1,914	1,740	2,126	1,933
GCK	Hedge/Member	Mnth4	Increase	USD	1,740	1,740	1,933	1,933
GCK	Spec	Mnth5	Increase	USD	1,914	1,740	2,126	1,933
GCK	Hedge/Member	Mnth5	Increase	USD	1,740	1,740	1,933	1,933
GCK	Spec	Mnth6	Increase	USD	1,914	1,740	2,126	1,933
GCK	Hedge/Member	Mnth6	Increase	USD	1,740	1,740	1,933	1,933
GCK	Spec	Mnth7	Increase	USD	1,914	1,740	2,126	1,933
GCK	Hedge/Member	Mnth7	Increase	USD	1,740	1,740	1,933	1,933
GCK	Spec	Mnth8+	Increase	USD	1,914	1,740	2,126	1,933
GCK	Hedge/Member	Mnth8+	Increase	USD	1,740	1,740	1,933	1,933

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					
ALGONQUIN CITYGATES BASIS (B4)								
B4	Spec	Mnth 1	Increase	USD	1,650	1,500	2,200	2,000
B4	Hedge/Member	Mnth 1	Increase	USD	1,500	1,500	2,000	2,000
B4	Spec	Mnth 2	Increase	USD	1,980	1,800	2,310	2,100
B4	Hedge/Member	Mnth 2	Increase	USD	1,800	1,800	2,100	2,100
B4	Spec	Winter 2016/2017	Increase	USD	1,980	1,800	2,310	2,100
B4	Hedge/Member	Winter 2016/2017	Increase	USD	1,800	1,800	2,100	2,100
B4	Spec	Winter 2017/2018	Increase	USD	1,375	1,250	1,540	1,400
B4	Hedge/Member	Winter 2017/2018	Increase	USD	1,250	1,250	1,400	1,400
ANR LOUISIANA BASIS FUT (ND)								
ND	Spec	Mth 1	Increase	USD	88	80	110	100
ND	Hedge/Member	Mth 1	Increase	USD	80	80	100	100
ND	Spec	Mths 2 - 5	Increase	USD	66	60	88	80
ND	Hedge/Member	Mths 2 - 5	Increase	USD	60	60	80	80
ND	Spec	Mths 6+	Increase	USD	66	60	88	80
ND	Hedge/Member	Mths 6+	Increase	USD	60	60	80	80
CIG BASIS (CI)								
CI	Spec	Mnth 1	Increase	USD	220	200	275	250
CI	Hedge/Member	Mnth 1	Increase	USD	200	200	250	250
COLUMB GULF MAINLINE NG BASIS (5Z)								
5Z	Spec	Mnths 25+	Increase	USD	50	45	72	65
5Z	Hedge/Member	Mnths 25+	Increase	USD	45	45	65	65
COLUMBIA GULF ONSHORE BASIS FUT (GL)								
GL	Spec	Mnth 1	Increase	USD	83	75	110	100
GL	Hedge/Member	Mnth 1	Increase	USD	75	75	100	100
GL	Spec	Mnth 2	Increase	USD	83	75	110	100
GL	Hedge/Member	Mnth 2	Increase	USD	75	75	100	100

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
Outright Rates								
DOMINION BASIS FUT (PLATTS IFERC) (PG)								
PG	Spec	Mnth 1	Increase	USD	440	400	605	550
PG	Hedge/Member	Mnth 1	Increase	USD	400	400	550	550
PG	Spec	Mnth 2	Increase	USD	440	400	578	525
PG	Hedge/Member	Mnth 2	Increase	USD	400	400	525	525
PG	Spec	Mnths 3-8	Increase	USD	407	370	462	420
PG	Hedge/Member	Mnths 3-8	Increase	USD	370	370	420	420
PG	Spec	Mnths 9-20	Increase	USD	297	270	352	320
PG	Hedge/Member	Mnths 9-20	Increase	USD	270	270	320	320
ENABLE NAT GAS BASIS FUT (PW)								
PW	Spec	Mnths 7-19	Increase	USD	99	90	132	120
PW	Hedge/Member	Mnths 7-19	Increase	USD	90	90	120	120
HOUSTON SHIP CHANNEL BASIS FUT (NH)								
NH	Spec	Mnth 1	Increase	USD	110	100	154	140
NH	Hedge/Member	Mnth 1	Increase	USD	100	100	140	140
MICHIGAN BASIS (NF)								
NF	Spec	Mnth 1	Increase	USD	132	120	143	130
NF	Hedge/Member	Mnth 1	Increase	USD	120	120	130	130
NATURAL GAS PIPELINE TEXOK BASIS FUT (PD)								
PD	Spec	Mnth 1	Increase	USD	99	90	121	110
PD	Hedge/Member	Mnth 1	Increase	USD	90	90	110	110
PD	Spec	Mnths 2	Increase	USD	61	55	72	65
PD	Hedge/Member	Mnths 2	Increase	USD	55	55	65	65
PD	Spec	Mnths 3-6	Increase	USD	61	55	72	65
PD	Hedge/Member	Mnths 3-6	Increase	USD	55	55	65	65
PD	Spec	Mnths 7-12	Increase	USD	61	55	72	65
PD	Hedge/Member	Mnths 7-12	Increase	USD	55	55	65	65
PD	Spec	Mnths 13+	Increase	USD	61	55	72	65
PD	Hedge/Member	Mnths 13+	Increase	USD	55	55	65	65
NGPL MIDCONTINENT BASIS FUT (NL)								
NL	Spec	Mnth 1	Increase	USD	198	180	242	220
NL	Hedge/Member	Mnth 1	Increase	USD	180	180	220	220

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
Outright Rates								
NORTHWEST PIPELINE BASIS FUT (NR)								
NR	Spec	Mnth 1	Increase	USD	220	200	242	220
NR	Hedge/Member	Mnth 1	Increase	USD	200	200	220	220
NR	Spec	Mnths 2-6	Increase	USD	110	100	143	130
NR	Hedge/Member	Mnths 2-6	Increase	USD	100	100	130	130
NR	Spec	Mnths 7-9	Increase	USD	110	100	143	130
NR	Hedge/Member	Mnths 7-9	Increase	USD	100	100	130	130
ONEOK OKLAHOMA NG BASIS (8X)								
8X	Spec	Mnth 2	Increase	USD	138	125	154	140
8X	Hedge/Member	Mnth 2	Increase	USD	125	125	140	140
8X	Spec	Mnths 3-7	Increase	USD	138	125	154	140
8X	Hedge/Member	Mnths 3-7	Increase	USD	125	125	140	140
SAN JUAN BASIS FUT (NJ)								
NJ	Spec	Mth 1	Increase	USD	253	230	275	250
NJ	Hedge/Member	Mth 1	Increase	USD	230	230	250	250
NJ	Spec	Mth 2	Increase	USD	110	100	132	120
NJ	Hedge/Member	Mth 2	Increase	USD	100	100	120	120
NJ	Spec	Mths 3-6	Increase	USD	110	100	132	120
NJ	Hedge/Member	Mths 3-6	Increase	USD	100	100	120	120
TENNESSEE 500 LEG BASIS FUT (NM)								
NM	Spec	Mnth 1	Increase	USD	44	40	55	50
NM	Hedge/Member	Mnth 1	Increase	USD	40	40	50	50
NM	Spec	Mths 2-2	Increase	USD	44	40	55	50
NM	Hedge/Member	Mths 2-2	Increase	USD	40	40	50	50
NM	Spec	Mths 3-7	Increase	USD	44	40	55	50
NM	Hedge/Member	Mths 3-7	Increase	USD	40	40	50	50
NM	Spec	Mths 8-19	Increase	USD	55	50	66	60
NM	Hedge/Member	Mths 8-19	Increase	USD	50	50	60	60
TENNESSEE 800 LEG NG BASIS (6Z)								
6Z	Spec	Mnth 1	Increase	USD	143	130	176	160
6Z	Hedge/Member	Mnth 1	Increase	USD	130	130	160	160
6Z	Spec	Mnths 2+	Increase	USD	110	100	143	130
6Z	Hedge/Member	Mnths 2+	Increase	USD	100	100	130	130
TENNESSEE ZONE 0 BASIS FUT (NQ)								
NQ	Spec	Mnth 1	Increase	USD	220	200	242	220
NQ	Hedge/Member	Mnth 1	Increase	USD	200	200	220	220
NQ	Spec	Mnths 2+	Increase	USD	165	150	187	170
NQ	Hedge/Member	Mnths 2+	Increase	USD	150	150	170	170

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
Outright Rates								
TETCO STX BASIS (TX)								
TX	Spec	Mth 1	Increase	USD	110	100	154	140
TX	Hedge/Member	Mth 1	Increase	USD	100	100	140	140
TX	Spec	Mth 2	Increase	USD	88	80	110	100
TX	Hedge/Member	Mth 2	Increase	USD	80	80	100	100
TX	Spec	Mths 3 - 6	Increase	USD	88	80	110	100
TX	Hedge/Member	Mths 3 - 6	Increase	USD	80	80	100	100
TX	Spec	Mths 7 - 12	Increase	USD	88	80	110	100
TX	Hedge/Member	Mths 7 - 12	Increase	USD	80	80	100	100
TX	Spec	Mths 13+	Increase	USD	88	80	110	100
TX	Hedge/Member	Mths 13+	Increase	USD	80	80	100	100
TEXAS EASTERN ZONE M-3 BASIS FUT (NX)								
NX	Spec	Mth 1	Increase	USD	550	500	770	700
NX	Hedge/Member	Mth 1	Increase	USD	500	500	700	700
NX	Spec	Mth 2	Increase	USD	495	450	660	600
NX	Hedge/Member	Mth 2	Increase	USD	450	450	600	600
NX	Spec	Winter 2016/2017	Increase	USD	715	650	825	750
NX	Hedge/Member	Winter 2016/2017	Increase	USD	650	650	750	750
TRANSCO ZONE 3 BASIS (CZ)								
CZ	Spec	Mth 1	Increase	USD	61	55	77	70
CZ	Hedge/Member	Mth 1	Increase	USD	55	55	70	70
CZ	Spec	Mth 2	Increase	USD	61	55	77	70
CZ	Hedge/Member	Mth 2	Increase	USD	55	55	70	70
TRANSCO ZONE 6 BASIS FUT (NZ)								
NZ	Spec	Mnth 1	Increase	USD	1,100	1,000	1,540	1,400
NZ	Hedge/Member	Mnth 1	Increase	USD	1,000	1,000	1,400	1,400
NZ	Spec	Mnth 2	Increase	USD	1,045	950	1,210	1,100
NZ	Hedge/Member	Mnth 2	Increase	USD	950	950	1,100	1,100
NZ	Spec	Winter 2016/2017	Increase	USD	990	900	1,210	1,100
NZ	Hedge/Member	Winter 2016/2017	Increase	USD	900	900	1,100	1,100
TRANSCO ZONE 6 NON NY BASIS FUT (TZ6)								
TZ6	Spec	Mnth 1	Increase	USD	825	750	1,100	1,000
TZ6	Hedge/Member	Mnth 1	Increase	USD	750	750	1,000	1,000
TZ6	Spec	Mnth 2	Increase	USD	770	700	990	900
TZ6	Hedge/Member	Mnth 2	Increase	USD	700	700	900	900

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
Outright Rates								
VENTURA BASIS FUT (PF)								
PF	Spec	Mnth 1	Increase	USD	198	180	242	220
PF	Hedge/Member	Mnth 1	Increase	USD	180	180	220	220
WAHA TEXAS BASIS FUT (NW)								
NW	Spec	Mnth 2	Increase	USD	77	70	94	85
NW	Hedge/Member	Mnth 2	Increase	USD	70	70	85	85
NW	Spec	Mnths 3-6	Increase	USD	77	70	94	85
NW	Hedge/Member	Mnths 3-6	Increase	USD	70	70	85	85
NW	Spec	Mnths 7-12	Increase	USD	77	70	94	85
NW	Hedge/Member	Mnths 7-12	Increase	USD	70	70	85	85
NW	Spec	Mnths 13-33	Increase	USD	83	75	99	90
NW	Hedge/Member	Mnths 13-33	Increase	USD	75	75	90	90

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
Outright Rates								
			NGL/PETROCHEMICALS - Outright Rates					
ARGUS PRPNE FAR EAST INDX BALMO FUT (22)								
22	Spec	Tier 3	Decrease	USD	46,200	42,000	40,700	37,000
22	Hedge/Member	Tier 3	Decrease	USD	42,000	42,000	37,000	37,000
CONWAY PROPANE 5 DEC. FUT (8K)								
8K	Spec	Mth 1	Decrease	USD	1,650	1,500	1,485	1,350
8K	Hedge/Member	Mth 1	Decrease	USD	1,500	1,500	1,350	1,350
8K	Spec	Mth 2	Decrease	USD	1,540	1,400	1,375	1,250
8K	Hedge/Member	Mth 2	Decrease	USD	1,400	1,400	1,250	1,250
8K	Spec	Mth 3	Decrease	USD	1,540	1,400	1,375	1,250
8K	Hedge/Member	Mth 3	Decrease	USD	1,400	1,400	1,250	1,250
8K	Spec	Mths 4-11	Decrease	USD	1,540	1,400	1,375	1,250
8K	Hedge/Member	Mths 4-11	Decrease	USD	1,400	1,400	1,250	1,250
8K	Spec	Mths 12-24	Decrease	USD	1,540	1,400	1,375	1,250
8K	Hedge/Member	Mths 12-24	Decrease	USD	1,400	1,400	1,250	1,250
8K	Spec	Mnths 25+	Decrease	USD	1,540	1,400	1,375	1,250
8K	Hedge/Member	Mnths 25+	Decrease	USD	1,400	1,400	1,250	1,250
MONT BELVIEU NAT GAS (OPIS) FUT (W3)								
W3	Spec	Mnth 1	Decrease	USD	3,520	3,200	3,190	2,900
W3	Hedge/Member	Mnth 1	Decrease	USD	3,200	3,200	2,900	2,900
W3	Spec	Mnths 2+	Decrease	USD	3,410	3,100	3,080	2,800
W3	Hedge/Member	Mnths 2+	Decrease	USD	3,100	3,100	2,800	2,800
MT BELVIEU ISO BUTANE 5 DEC. S (8I)								
8I	Spec	Mnths 2-6	Decrease	USD	2,200	2,000	1,870	1,700
8I	Hedge/Member	Mnths 2-6	Decrease	USD	2,000	2,000	1,700	1,700
8I	Spec	Mnths 7+	Decrease	USD	1,980	1,800	1,650	1,500
8I	Hedge/Member	Mnths 7+	Decrease	USD	1,800	1,800	1,500	1,500
MT BELVIEU NAT GAS 5 D. OPIS (7Q)								
7Q	Spec	Mnth 1	Decrease	USD	3,520	3,200	3,190	2,900
7Q	Hedge/Member	Mnth 1	Decrease	USD	3,200	3,200	2,900	2,900
7Q	Spec	Mnths 2+	Decrease	USD	3,410	3,100	3,080	2,800
7Q	Hedge/Member	Mnths 2+	Decrease	USD	3,100	3,100	2,800	2,800
PROPANE NON LDH MT BELVIEU (1R)								
1R	Spec	Mth 1	Decrease	USD	1,430	1,300	1,320	1,200
1R	Hedge/Member	Mth 1	Decrease	USD	1,300	1,300	1,200	1,200
1R	Spec	Mth 2+	Decrease	USD	1,430	1,300	1,320	1,200
1R	Hedge/Member	Mth 2+	Decrease	USD	1,300	1,300	1,200	1,200

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
Outright Rates								
PROPANE NON LDH MT BLV BALMO (1S)								
1S	Spec		Decrease	USD	4,290	3,900	2,200	2,000
1S	Hedge/Member		Decrease	USD	3,900	3,900	2,000	2,000

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

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

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
Intra Spreads								
			AGRICULTURE - Intra Spreads					
Month 1 vs Month 2 (FEEDER CATTLE FUTURES)								
FC	Spec		Decrease	USD	1,320	1,200	1,045	950
FC	Hedge/Member		Decrease	USD	1,200	1,200	950	950
Month 1 vs Month 2 (FEEDER CATTLE TRADE AT SETTLE)								
GFT	Spec		Decrease	USD	1,320	1,200	1,045	950
GFT	Hedge/Member		Decrease	USD	1,200	1,200	950	950
Month 1 vs Month 2 (LIVE CATTLE FUTURES)								
LC	Spec		Decrease	USD	715	650	578	525
LC	Hedge/Member		Decrease	USD	650	650	525	525
Month 1 vs Month 2 (LIVE CATTLE TRADE AT SETTLEMENT)								
LET	Spec		Decrease	USD	715	650	578	525
LET	Hedge/Member		Decrease	USD	650	650	525	525
Month 1 vs Month 3 (FEEDER CATTLE FUTURES)								
FC	Spec		Decrease	USD	1,320	1,200	1,045	950
FC	Hedge/Member		Decrease	USD	1,200	1,200	950	950
Month 1 vs Month 3 (FEEDER CATTLE TRADE AT SETTLE)								
GFT	Spec		Decrease	USD	1,320	1,200	1,045	950
GFT	Hedge/Member		Decrease	USD	1,200	1,200	950	950
Month 1 vs Month 3 (LIVE CATTLE FUTURES)								
LC	Spec		Decrease	USD	770	700	715	650
LC	Hedge/Member		Decrease	USD	700	700	650	650
Month 1 vs Month 3 (LIVE CATTLE TRADE AT SETTLEMENT)								
LET	Spec		Decrease	USD	770	700	715	650
LET	Hedge/Member		Decrease	USD	700	700	650	650
Month 1 vs Month 4 (FEEDER CATTLE FUTURES)								
FC	Spec		Decrease	USD	1,320	1,200	1,100	1,000
FC	Hedge/Member		Decrease	USD	1,200	1,200	1,000	1,000
Month 1 vs Month 4 (FEEDER CATTLE TRADE AT SETTLE)								
GFT	Spec		Decrease	USD	1,320	1,200	1,100	1,000
GFT	Hedge/Member		Decrease	USD	1,200	1,200	1,000	1,000
Month 1 vs Month 4 (LIVE CATTLE FUTURES)								
LC	Spec		Decrease	USD	770	700	715	650
LC	Hedge/Member		Decrease	USD	700	700	650	650

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
Intra Spreads								
Month 1 vs Month 4 (LIVE CATTLE TRADE AT SETTLEMENT)								
LET	Spec		Decrease	USD	770	700	715	650
LET	Hedge/Member		Decrease	USD	700	700	650	650
Month 1 vs Month 5 (LIVE CATTLE FUTURES)								
LC	Spec		Decrease	USD	880	800	770	700
LC	Hedge/Member		Decrease	USD	800	800	700	700
Month 1 vs Month 5 (LIVE CATTLE TRADE AT SETTLEMENT)								
LET	Spec		Decrease	USD	880	800	770	700
LET	Hedge/Member		Decrease	USD	800	800	700	700
Month 2 vs Month 3 (FEEDER CATTLE FUTURES)								
FC	Spec		Decrease	USD	990	900	715	650
FC	Hedge/Member		Decrease	USD	900	900	650	650
Month 2 vs Month 3 (FEEDER CATTLE TRADE AT SETTLE)								
GFT	Spec		Decrease	USD	990	900	715	650
GFT	Hedge/Member		Decrease	USD	900	900	650	650
Month 2 vs Month 3 (LIVE CATTLE FUTURES)								
LC	Spec		Decrease	USD	605	550	495	450
LC	Hedge/Member		Decrease	USD	550	550	450	450
Month 2 vs Month 3 (LIVE CATTLE TRADE AT SETTLEMENT)								
LET	Spec		Decrease	USD	605	550	495	450
LET	Hedge/Member		Decrease	USD	550	550	450	450
Month 2 vs Month 4 (FEEDER CATTLE FUTURES)								
FC	Spec		Decrease	USD	990	900	715	650
FC	Hedge/Member		Decrease	USD	900	900	650	650
Month 2 vs Month 4 (FEEDER CATTLE TRADE AT SETTLE)								
GFT	Spec		Decrease	USD	990	900	715	650
GFT	Hedge/Member		Decrease	USD	900	900	650	650
Month 2 vs Month 4 (LIVE CATTLE FUTURES)								
LC	Spec		Decrease	USD	660	600	550	500
LC	Hedge/Member		Decrease	USD	600	600	500	500
Month 2 vs Month 4 (LIVE CATTLE TRADE AT SETTLEMENT)								
LET	Spec		Decrease	USD	660	600	550	500
LET	Hedge/Member		Decrease	USD	600	600	500	500

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
Intra Spreads								
Month 2 vs Month 5 (FEEDER CATTLE FUTURES)								
FC	Spec		Decrease	USD	990	900	825	750
FC	Hedge/Member		Decrease	USD	900	900	750	750
Month 2 vs Month 5 (FEEDER CATTLE TRADE AT SETTLE)								
GFT	Spec		Decrease	USD	990	900	825	750
GFT	Hedge/Member		Decrease	USD	900	900	750	750
Month 2 vs Month 5 (LIVE CATTLE FUTURES)								
LC	Spec		Decrease	USD	825	750	715	650
LC	Hedge/Member		Decrease	USD	750	750	650	650
Month 2 vs Month 5 (LIVE CATTLE TRADE AT SETTLEMENT)								
LET	Spec		Decrease	USD	825	750	715	650
LET	Hedge/Member		Decrease	USD	750	750	650	650
Month 2 vs Months 6+ (FEEDER CATTLE FUTURES)								
FC	Spec		Decrease	USD	1,045	950	880	800
FC	Hedge/Member		Decrease	USD	950	950	800	800
Month 2 vs Months 6+ (FEEDER CATTLE TRADE AT SETTLE)								
GFT	Spec		Decrease	USD	1,045	950	880	800
GFT	Hedge/Member		Decrease	USD	950	950	800	800
Month 2 vs Months 6+ (LIVE CATTLE FUTURES)								
LC	Spec		Decrease	USD	935	850	770	700
LC	Hedge/Member		Decrease	USD	850	850	700	700
Month 2 vs Months 6+ (LIVE CATTLE TRADE AT SETTLEMENT)								
LET	Spec		Decrease	USD	935	850	770	700
LET	Hedge/Member		Decrease	USD	850	850	700	700
Month 3 vs Month 4 (FEEDER CATTLE FUTURES)								
FC	Spec		Decrease	USD	990	900	715	650
FC	Hedge/Member		Decrease	USD	900	900	650	650
Month 3 vs Month 4 (FEEDER CATTLE TRADE AT SETTLE)								
GFT	Spec		Decrease	USD	990	900	715	650
GFT	Hedge/Member		Decrease	USD	900	900	650	650
Month 3 vs Month 4 (LIVE CATTLE FUTURES)								
LC	Spec		Decrease	USD	495	450	413	375
LC	Hedge/Member		Decrease	USD	450	450	375	375

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
Intra Spreads								
Month 3 vs Month 4 (LIVE CATTLE TRADE AT SETTLEMENT)								
LET	Spec		Decrease	USD	495	450	413	375
LET	Hedge/Member		Decrease	USD	450	450	375	375
Month 3 vs Month 5 (FEEDER CATTLE FUTURES)								
FC	Spec		Decrease	USD	990	900	715	650
FC	Hedge/Member		Decrease	USD	900	900	650	650
Month 3 vs Month 5 (FEEDER CATTLE TRADE AT SETTLE)								
GFT	Spec		Decrease	USD	990	900	715	650
GFT	Hedge/Member		Decrease	USD	900	900	650	650
Month 3 vs Month 5 (LIVE CATTLE FUTURES)								
LC	Spec		Decrease	USD	660	600	550	500
LC	Hedge/Member		Decrease	USD	600	600	500	500
Month 3 vs Month 5 (LIVE CATTLE TRADE AT SETTLEMENT)								
LET	Spec		Decrease	USD	660	600	550	500
LET	Hedge/Member		Decrease	USD	600	600	500	500
Month 3 vs Months 6+ (FEEDER CATTLE FUTURES)								
FC	Spec		Decrease	USD	990	900	770	700
FC	Hedge/Member		Decrease	USD	900	900	700	700
Month 3 vs Months 6+ (FEEDER CATTLE TRADE AT SETTLE)								
GFT	Spec		Decrease	USD	990	900	770	700
GFT	Hedge/Member		Decrease	USD	900	900	700	700
Month 3 vs Months 6+ (LIVE CATTLE FUTURES)								
LC	Spec		Decrease	USD	770	700	660	600
LC	Hedge/Member		Decrease	USD	700	700	600	600
Month 3 vs Months 6+ (LIVE CATTLE TRADE AT SETTLEMENT)								
LET	Spec		Decrease	USD	770	700	660	600
LET	Hedge/Member		Decrease	USD	700	700	600	600
Month 4 vs Month 5 (FEEDER CATTLE FUTURES)								
FC	Spec		Decrease	USD	990	900	715	650
FC	Hedge/Member		Decrease	USD	900	900	650	650
Month 4 vs Month 5 (FEEDER CATTLE TRADE AT SETTLE)								
GFT	Spec		Decrease	USD	990	900	715	650
GFT	Hedge/Member		Decrease	USD	900	900	650	650

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
Intra Spreads								
Month 4 vs Month 5 (LIVE CATTLE FUTURES)								
LC	Spec		Decrease	USD	495	450	413	375
LC	Hedge/Member		Decrease	USD	450	450	375	375
Month 4 vs Month 5 (LIVE CATTLE TRADE AT SETTLEMENT)								
LET	Spec		Decrease	USD	495	450	413	375
LET	Hedge/Member		Decrease	USD	450	450	375	375
Month 4 vs Months 6+ (FEEDER CATTLE FUTURES)								
FC	Spec		Decrease	USD	990	900	715	650
FC	Hedge/Member		Decrease	USD	900	900	650	650
Month 4 vs Months 6+ (FEEDER CATTLE TRADE AT SETTLE)								
GFT	Spec		Decrease	USD	990	900	715	650
GFT	Hedge/Member		Decrease	USD	900	900	650	650
Month 4 vs Months 6+ (LIVE CATTLE FUTURES)								
LC	Spec		Decrease	USD	605	550	495	450
LC	Hedge/Member		Decrease	USD	550	550	450	450
Month 4 vs Months 6+ (LIVE CATTLE TRADE AT SETTLEMENT)								
LET	Spec		Decrease	USD	605	550	495	450
LET	Hedge/Member		Decrease	USD	550	550	450	450
Month 5 vs Months 6+ (FEEDER CATTLE FUTURES)								
FC	Spec		Decrease	USD	990	900	880	800
FC	Hedge/Member		Decrease	USD	900	900	800	800
Month 5 vs Months 6+ (FEEDER CATTLE TRADE AT SETTLE)								
GFT	Spec		Decrease	USD	990	900	880	800
GFT	Hedge/Member		Decrease	USD	900	900	800	800
Month 5 vs Months 6+ (LIVE CATTLE FUTURES)								
LC	Spec		Decrease	USD	550	500	440	400
LC	Hedge/Member		Decrease	USD	500	500	400	400
Month 5 vs Months 6+ (LIVE CATTLE TRADE AT SETTLEMENT)								
LET	Spec		Decrease	USD	550	500	440	400
LET	Hedge/Member		Decrease	USD	500	500	400	400
Months 6+ vs Months 6+ (LIVE CATTLE FUTURES)								
LC	Spec		Decrease	USD	550	500	495	450
LC	Hedge/Member		Decrease	USD	500	500	450	450

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
Intra Spreads								
Months 6+ vs Months 6+ (LIVE CATTLE TRADE AT SETTLEMENT)								
LET	Spec		Decrease	USD	550	500	495	450
LET	Hedge/Member		Decrease	USD	500	500	450	450
NATURAL GAS - Intra Spreads								
CIG Rocky Mountain Basis Swap (Platts IFERC) - All Months (CIG BASIS)								
CI	Spec		Increase	USD	220	200	286	260
CI	Hedge/Member		Increase	USD	200	200	260	260
COLUMBIA GULF ONSHORE BASIS (GL) - All Months (COLUMBIA GULF ONSHORE BASIS FUT)								
GL	Spec		Increase	USD	55	50	77	70
GL	Hedge/Member		Increase	USD	50	50	70	70
Dominion Basis Swap - All Months (DOMINION BASIS FUT (PLATTS IFERC))								
PG	Spec		Increase	USD	264	240	363	330
PG	Hedge/Member		Increase	USD	240	240	330	330
ONEOK OKLAHOMA NG BASIS - All Months (ONEOK OKLAHOMA NG BASIS)								
8X	Spec		Increase	USD	165	150	198	180
8X	Hedge/Member		Increase	USD	150	150	180	180
TENNESSEE 800 LEG NG BASIS - All Months (TENNESSEE 800 LEG NG BASIS)								
6Z	Spec		Increase	USD	99	90	121	110
6Z	Hedge/Member		Increase	USD	90	90	110	110
Transco Zone 3 Basis Swap - All Months (TRANSCO ZONE 3 BASIS)								
CZ	Spec		Increase	USD	77	70	110	100
CZ	Hedge/Member		Increase	USD	70	70	100	100

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

Class III Milk vs Cash Settled Cheese "DA vs CSC"

Spread Credit Rate	Decrease	+1:-1	85%	85%	65%	65%
Spread Credit Rate	Decrease	+1:-1	75%	75%	55%	55%

CRUDE OIL - Inter-commodity Spread Rates

BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME) vs DATED BRENT (PLATTS) CALENDAR SWAP FUTURES (NY-UB - CME)

Spread Credit Rate	Decrease	+1:-1	90%	90%	85%	85%

BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME) vs DATED BRENT (PLATTS) CALENDAR SWAP FUTURES (NY-UB - CME).

Spread Credit Rate	Decrease	+1:-1	90%	90%	85%	85%

BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME) vs GULF COAST NO. 6 FUEL OIL 3.0% (PLATTS) SWAP FUTURES (NY-MF - CME)

Spread Credit Rate	Decrease	+1:-1	85%	85%	80%	80%

BRENT CRUDE OIL BULLET SWAP FINANCIAL (NYM-BB, BZ, CY) vs EUROPEAN DATED BRENT SWAP (NYM-UB - CME)

Spread Credit Rate	Decrease	+1:-1	90%	90%	85%	85%

BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME) vs DATED BRENT (PLATTS) CALENDAR SWAP FUTURES (NY-UB - CME)

Spread Credit Rate	Decrease	+1:-1	90%	90%	85%	85%

BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME) vs EUROPEAN PROPANE CIF ARA (ARGUS) SWAP FUTURES (NY-PS - CME)

Spread Credit Rate	Decrease	+15:-2	70%	70%	60%	60%

BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME) vs GULF COAST NO. 6 FUEL OIL 3.0% (PLATTS) SWAP FUTURES (NY-MF - CME)

Spread Credit Rate	Decrease	+1:-1	85%	85%	80%	80%

BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME) vs NY ETHANOL (PLATTS) SWAP FUTURES (NY-EZ - CME)

Spread Credit Rate	Decrease	+1:-1	30%	30%	20%	20%

BRENT CRUDE OIL PENULTIMATE FINANCIAL FUTURES (NY-BB - CME) vs GULF COAST NO. 6 FUEL OIL 3.0% (PLATTS) SWAP FUTURES (NY-MF - CME)

Spread Credit Rate	Decrease	+1:-1	85%	85%	80%	80%

BRENT CRUDE OIL PENULTIMATE FINANCIAL FUTURES (NY-BB - CME) vs NY ETHANOL (PLATTS) SWAP FUTURES (NY-EZ - CME)

Spread Credit Rate	Decrease	+1:-1	30%	30%	20%	20%

CRUDE OIL FINANCIAL FUTURES (NY-WS - CME) vs NY ETHANOL (PLATTS) SWAP FUTURES (NY-EZ - 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						
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	Decrease	+1:-1	85%	85%	80%	80%
CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-26 - CME) vs NY ETHANOL (PLATTS) SWAP FUTURES (NY-EZ - CME)						
Spread Credit Rate	Decrease	+1:-1	30%	30%	20%	20%
DATED BRENT (PLATTS) CALENDAR SWAP FUTURES (NY-UB - CME) vs GULF COAST NO. 6 FUEL OIL 3.0% (PLATTS) SWAP FUTURES (NY-MF - CME)						
Spread Credit Rate	Decrease	+1:-1	80%	80%	75%	75%
DATED BRENT (PLATTS) CALENDAR SWAP FUTURES (NY-UB - CME) vs RBOB GASOLINE CALENDAR SWAP FUTURES (NY-RL - CME)						
Spread Credit Rate	Decrease	+1:-1	75%	75%	70%	70%
DATED BRENT (PLATTS) CALENDAR SWAP FUTURES (NY-UB - CME) vs RBOB GASOLINE FINANCIAL FUTURES (NY-RT - CME)						
Spread Credit Rate	Decrease	+1:-1	75%	75%	70%	70%
DATED BRENT (PLATTS) CALENDAR SWAP FUTURES (NY-UB - CME) vs RBOB GASOLINE FUTURES (NY-RB - CME)						
Spread Credit Rate	Decrease	+1:-1	75%	75%	70%	70%
DATED BRENT (PLATTS) CALENDAR SWAP FUTURES (NY-UB - CME) vs RBOB GASOLINE LAST DAY FINANCIAL FUTURES (NY-27 - CME)						
Spread Credit Rate	Decrease	+1:-1	75%	75%	70%	70%
DUBAI CRUDE OIL (PLATTS) CALENDAR SWAP FUTURES (NY-DC - CME) vs NY 2.2% FUEL OIL (PLATTS) SWAP FUTURES (NY-Y3 - CME)						
Spread Credit Rate	Decrease	+1:-1	80%	80%	70%	70%
DUBAI CRUDE OIL (PLATTS) CALENDAR SWAP FUTURES (NY-DC - CME) vs NY ETHANOL (PLATTS) SWAP FUTURES (NY-EZ - CME)						
Spread Credit Rate	Decrease	+1:-1	30%	30%	0%	0%
EUROPEAN 1% FUEL OIL (PLATTS) CARGOES FOB NWE CALENDAR SWAP FUTURES (NY-UF - CME) vs DATED BRENT (PLATTS) CALENDAR SWAP FUTURES (NY-UB - CME)						
Spread Credit Rate	New	+3:-19			80%	80%
EUROPEAN PROPANE CIF ARA (ARGUS) SWAP FUTURES (NY-PS - CME) vs BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME)						
Spread Credit Rate	Decrease	+2:-15	70%	70%	60%	60%
EUROPEAN PROPANE CIF ARA (ARGUS) SWAP FUTURES (NY-PS - CME) vs BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME)						
Spread Credit Rate	Decrease	+2:-15	70%	70%	60%	60%
EUROPEAN PROPANE CIF ARA (ARGUS) SWAP FUTURES (NY-PS - CME) vs BRENT CRUDE OIL PENULTIMATE FINANCIAL FUTURES (NY-BB - CME)						
Spread Credit Rate	Decrease	+2:-15	70%	70%	60%	60%
EUROPEAN PROPANE CIF ARA (ARGUS) SWAP FUTURES (NY-PS - CME) vs DUBAI CRUDE OIL (PLATTS) CALENDAR SWAP FUTURES (NY-DC - CME)						
Spread Credit Rate	Decrease	+1:-12	75%	75%	65%	65%

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 (NY-CL - CME) vs NY ETHANOL (PLATTS) SWAP FUTURES (NY-EZ - CME)						
Spread Credit Rate	Decrease	+1:-1	30%	30%	20%	20%
LIGHT SWEET CRUDE OIL FUTURES (NY-CL, CS, WS) vs NY ETHANOL (PLATTS) SWAP FUTURES (NY-EZ - CME)						
Spread Credit Rate	Decrease	+1:-1	30%	30%	20%	20%
LIGHT, SWEET CRUDE OIL FUTURES (NYM-CL, CS, WS) vs GULF COAST #6 FUEL 3.0% SWAP (NYM-MF - CME)						
Spread Credit Rate	Decrease	+1:-1	85%	85%	80%	80%
NY ETHANOL (PLATTS) SWAP FUTURES (NY-EZ - CME) vs BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME)						
Spread Credit Rate	Decrease	+1:-1	30%	30%	20%	20%
NY ETHANOL (PLATTS) SWAP FUTURES (NY-EZ - CME) vs BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME)						
Spread Credit Rate	Decrease	+1:-1	30%	30%	20%	20%
NY ETHANOL (PLATTS) SWAP FUTURES (NY-EZ - CME) vs BRENT CRUDE OIL PENULTIMATE FINANCIAL FUTURES (NY-BB - CME)						
Spread Credit Rate	Decrease	+1:-1	30%	30%	20%	20%
NY ETHANOL (PLATTS) SWAP FUTURES (NY-EZ - CME) vs DUBAI CRUDE OIL (PLATTS) CALENDAR SWAP FUTURES (NY-DC - CME)						
Spread Credit Rate	Decrease	+1:-1	30%	30%	0%	0%
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	Decrease	+1:-1	85%	85%	80%	80%
WTI CALENDAR SWAP FUTURES (NY-CS - CME) vs NY ETHANOL (PLATTS) SWAP FUTURES (NY-EZ - CME)						
Spread Credit Rate	Decrease	+1:-1	30%	30%	20%	20%
WTI CALENDAR SWAP FUTURES (NY-CS - CME) vs NY ETHANOL (PLATTS) SWAP FUTURES (NY-EZ - 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						
ETHANOL - Inter-commodity Spread Rates						
BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME) vs NY ETHANOL (PLATTS) SWAP FUTURES (NY-EZ - CME)						
Spread Credit Rate	Decrease	+1:-1	30%	30%	20%	20%
BRENT CRUDE OIL PENULTIMATE FINANCIAL FUTURES (NY-BB - CME) vs NY ETHANOL (PLATTS) SWAP FUTURES (NY-EZ - CME)						
Spread Credit Rate	Decrease	+1:-1	30%	30%	20%	20%
CRUDE OIL FINANCIAL FUTURES (NY-WS - CME) vs NY ETHANOL (PLATTS) SWAP FUTURES (NY-EZ - CME)						
Spread Credit Rate	Decrease	+1:-1	30%	30%	20%	20%
CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-26 - CME) vs NY ETHANOL (PLATTS) SWAP FUTURES (NY-EZ - CME)						
Spread Credit Rate	Decrease	+1:-1	30%	30%	20%	20%
DUBAI CRUDE OIL (PLATTS) CALENDAR SWAP FUTURES (NY-DC - CME) vs NY ETHANOL (PLATTS) SWAP FUTURES (NY-EZ - CME)						
Spread Credit Rate	Decrease	+1:-1	30%	30%	0%	0%
ETHANOL (EH - CME) vs CHICAGO ETHANOL (PLATTS) SWAP FUTURES (NY-CU - CME)						
Spread Credit Rate	Decrease	+7:-5	85%	85%	70%	70%
LIGHT SWEET CRUDE OIL FUTURES (NY-CL - CME) vs NY ETHANOL (PLATTS) SWAP FUTURES (NY-EZ - CME)						
Spread Credit Rate	Decrease	+1:-1	30%	30%	20%	20%
LIGHT SWEET CRUDE OIL FUTURES (NY-CL, CS, WS) vs NY ETHANOL (PLATTS) SWAP FUTURES (NY-EZ - CME)						
Spread Credit Rate	Decrease	+1:-1	30%	30%	20%	20%
NY ETHANOL (PLATTS) SWAP FUTURES (NY-EZ - CME) vs BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME)						
Spread Credit Rate	Decrease	+1:-1	30%	30%	20%	20%
NY ETHANOL (PLATTS) SWAP FUTURES (NY-EZ - CME) vs BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME)						
Spread Credit Rate	Decrease	+1:-1	30%	30%	20%	20%
NY ETHANOL (PLATTS) SWAP FUTURES (NY-EZ - CME) vs BRENT CRUDE OIL PENULTIMATE FINANCIAL FUTURES (NY-BB - CME)						
Spread Credit Rate	Decrease	+1:-1	30%	30%	20%	20%
NY ETHANOL (PLATTS) SWAP FUTURES (NY-EZ - CME) vs DUBAI CRUDE OIL (PLATTS) CALENDAR SWAP FUTURES (NY-DC - CME)						
Spread Credit Rate	Decrease	+1:-1	30%	30%	0%	0%
WTI CALENDAR SWAP FUTURES (NY-CS - CME) vs NY ETHANOL (PLATTS) SWAP FUTURES (NY-EZ - CME)						
Spread Credit Rate	Decrease	+1:-1	30%	30%	20%	20%
WTI CALENDAR SWAP FUTURES (NY-CS - CME) vs NY ETHANOL (PLATTS) SWAP FUTURES (NY-EZ - 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						
NGL/PETROCHEMICALS - Inter-commodity Spread Rates						
BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME) vs EUROPEAN PROPANE CIF ARA (ARGUS) SWAP FUTURES (NY-PS - CME)						
Spread Credit Rate	Decrease	+15:-2	70%	70%	60%	60%
EUROPEAN PROPANE CIF ARA (ARGUS) SWAP FUTURES (NY-PS - CME) vs BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME)						
Spread Credit Rate	Decrease	+2:-15	70%	70%	60%	60%
EUROPEAN PROPANE CIF ARA (ARGUS) SWAP FUTURES (NY-PS - CME) vs BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME)						
Spread Credit Rate	Decrease	+2:-15	70%	70%	60%	60%
EUROPEAN PROPANE CIF ARA (ARGUS) SWAP FUTURES (NY-PS - CME) vs BRENT CRUDE OIL PENULTIMATE FINANCIAL FUTURES (NY-BB - CME)						
Spread Credit Rate	Decrease	+2:-15	70%	70%	60%	60%
EUROPEAN PROPANE CIF ARA (ARGUS) SWAP FUTURES (NY-PS - CME) vs DUBAI CRUDE OIL (PLATTS) CALENDAR SWAP FUTURES (NY-DC - CME)						
Spread Credit Rate	Decrease	+1:-12	75%	75%	65%	65%

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 GULF COAST NO. 6 FUEL OIL 3.0% (PLATTS) SWAP FUTURES (NY-MF - CME)						
Spread Credit Rate	Decrease	+3:-19	80%	80%	75%	75%
BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME) vs GULF COAST NO. 6 FUEL OIL 3.0% (PLATTS) SWAP FUTURES (NY-MF - CME)						
Spread Credit Rate	Decrease	+1:-1	85%	85%	80%	80%
BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME) vs GULF COAST NO. 6 FUEL OIL 3.0% (PLATTS) SWAP FUTURES (NY-MF - CME)						
Spread Credit Rate	Decrease	+1:-1	85%	85%	80%	80%
BRENT CRUDE OIL PENULTIMATE FINANCIAL FUTURES (NY-BB - CME) vs GULF COAST NO. 6 FUEL OIL 3.0% (PLATTS) SWAP FUTURES (NY-MF - CME)						
Spread Credit Rate	Decrease	+1:-1	85%	85%	80%	80%
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	Decrease	+1:-1	85%	85%	80%	80%
DATED BRENT (PLATTS) CALENDAR SWAP FUTURES (NY-UB - CME) vs GULF COAST NO. 6 FUEL OIL 3.0% (PLATTS) SWAP FUTURES (NY-MF - CME)						
Spread Credit Rate	Decrease	+1:-1	80%	80%	75%	75%
DATED BRENT (PLATTS) CALENDAR SWAP FUTURES (NY-UB - CME) vs RBOB GASOLINE CALENDAR SWAP FUTURES (NY-RL - CME)						
Spread Credit Rate	Decrease	+1:-1	75%	75%	70%	70%
DATED BRENT (PLATTS) CALENDAR SWAP FUTURES (NY-UB - CME) vs RBOB GASOLINE FINANCIAL FUTURES (NY-RT - CME)						
Spread Credit Rate	Decrease	+1:-1	75%	75%	70%	70%
DATED BRENT (PLATTS) CALENDAR SWAP FUTURES (NY-UB - CME) vs RBOB GASOLINE FUTURES (NY-RB - CME)						
Spread Credit Rate	Decrease	+1:-1	75%	75%	70%	70%
DATED BRENT (PLATTS) CALENDAR SWAP FUTURES (NY-UB - CME) vs RBOB GASOLINE LAST DAY FINANCIAL FUTURES (NY-27 - CME)						
Spread Credit Rate	Decrease	+1:-1	75%	75%	70%	70%
DUBAI CRUDE OIL (PLATTS) CALENDAR SWAP FUTURES (NY-DC - CME) vs NY 2.2% FUEL OIL (PLATTS) SWAP FUTURES (NY-Y3 - CME)						
Spread Credit Rate	Decrease	+1:-1	80%	80%	70%	70%
EUROPEAN 1% FUEL OIL (PLATTS) CARGOES FOB NWE CALENDAR SWAP FUTURES (NY-UF - CME) vs DATED BRENT (PLATTS) CALENDAR SWAP FUTURES (NY-UB - CME)						
Spread Credit Rate	New	+3:-19			80%	80%
EUROPEAN 1% FUEL OIL (PLATTS) CARGOES FOB NWE CALENDAR SWAP FUTURES (NY-UF - CME) vs GULF COAST NO. 6 FUEL OIL 3.0% (PLATTS) SWAP FUTURES (NY-MF - CME)						
Spread Credit Rate	Decrease	+2:-15	85%	85%	80%	80%

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 ROTTERDAM CALENDAR SWAP (NYM-UV - CME) vs EUROPEAN 3.5% FUEL OIL MED CALENDAR SWAP (MEDITERR (NYM-UI - CME)						
Spread Credit Rate	Decrease	+1:-1	95%	95%	90%	90%
GULF COAST NO. 6 FUEL OIL 3.0% SULFUR (PLATTS) SWAP (NYM-MF - CME) vs NEW YORK HARBOR RESIDUAL FUEL 1.0% SULFUR (PLATTS) SWAP (NYM-MM - CME)						
Spread Credit Rate	Decrease	+1:-1	90%	90%	85%	85%
JAPAN C&F NAPHTHA (PLATTS) SWAP FUTURES (NY-UN - CME) vs GULF COAST NO. 6 FUEL OIL 3.0% (PLATTS) SWAP FUTURES (NY-MF - CME)						
Spread Credit Rate	Decrease	+2:-15	70%	70%	65%	65%
LIGHT, SWEET CRUDE OIL FUTURES (NYM-CL, CS, WS) vs GULF COAST #6 FUEL 3.0% SWAP (NYM-MF - CME)						
Spread Credit Rate	Decrease	+1:-1	85%	85%	80%	80%
NY HARBOR RBOB (BLENDSTOCK) GAS (NYM-RB, RL, RT) vs GASOLINE EURO-BOB OXY (ARGUS) NWE BARGES SWAP (NYM-7H - CME)						
Spread Credit Rate	Decrease	+25:-3	89%	89%	80%	80%
NY HARBOR RBOB (BLENDSTOCK) GAS (NYM-RB, RL, RT) vs NEW YORK HARBOR RESIDUAL FUEL 1.0% SULFUR (PLATTS) SWAP (NYM-MM - CME)						
Spread Credit Rate	Decrease	+1:-1	75%	75%	70%	70%
NY HARBOR RBOB (BLENDSTOCK) GAS (NYM-RB, RL, RT)vs GASOLINE EURO-BOB OXY (ARGUS) NWE BARGES SWAP (NYM-7H - CME)						
Spread Credit Rate	Decrease	+25:-3	89%	89%	80%	80%
NY-3G - PREMIUM UNLD 10P FOB MED SWP vs NY-SG - SINGAPORE GASOIL SWAP						
Spread Credit Rate	New	+2:-15			60%	60%
RBOB GASOLINE CALENDAR SWAP FUTURES (NY-RL - CME) vs SINGAPORE MOGAS 92 UNLEADED (PLATTS) SWAP FUTURES (NY-1N - CME)						
Spread Credit Rate	Decrease	+1:-1	85%	85%	80%	80%
RBOB GASOLINE FUTURES (NY-RB - CME) vs SINGAPORE MOGAS 92 UNLEADED (PLATTS) SWAP FUTURES (NY-1N - CME)						
Spread Credit Rate	Decrease	+1:-1	85%	85%	80%	80%
SINGAPORE FUEL OIL 180 CST (PLATTS) CALENDAR SWAP FUTURES (NY-UA - CME) vs GULF COAST NO. 6 FUEL OIL 3.0% (PLATTS) SWAP FUTURES (NY-MF - CME)						
Spread Credit Rate	Decrease	+2:-15	80%	80%	75%	75%
SINGAPORE FUEL OIL 380 CST (PLATTS) SWAP FUTURES (NY-SE - CME) vs GULF COAST NO. 6 FUEL OIL 3.0% (PLATTS) SWAP FUTURES (NY-MF - CME)						
Spread Credit Rate	Decrease	+2:-15	80%	80%	75%	75%
SINGAPORE MOGAS 92 UNLEADED (PLATTS) SWAP FUTURES (NY-1N - CME) vs RBOB GASOLINE FINANCIAL FUTURES (NY-RT - CME)						
Spread Credit Rate	Decrease	+1:-1	85%	85%	80%	80%
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	Decrease	+1:-1	85%	85%	80%	80%