



15-139

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

FROM: CME Clearing

SUBJECT: Performance Bond Requirements

DATE: Thursday, May 21, 2015

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

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

***and subscribe to the Performance Bond Rates Advisory Notice listserver.***

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

The rates will be effective after the close of business on

**Friday, May 22, 2015.**

Current rates as of:

**Thursday, May 21, 2015.**

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
<b>Outright Rates</b>								
<b>AGRICULTURE - Outright Rates</b>								
<b>MINI-SIZED WHEAT FUTURES (YW)</b>								
YW	Spec	All Months	Increase	USD	286	260	330	300
YW	Hedge/Member	All Months	Increase	USD	260	260	300	300
<b>NYMEX COFFEE (KT)</b>								
KT	Spec		Decrease	USD	5,500	5,000	4,675	4,250
KT	Hedge/Member		Decrease	USD	5,000	5,000	4,250	4,250
<b>WHEAT FUTURES (W)</b>								
W	Spec	All Months	Increase	USD	1,430	1,300	1,650	1,500
W	Hedge/Member	All Months	Increase	USD	1,300	1,300	1,500	1,500
<b>ELECTRICITY - Outright Rates</b>								
<b>MISO INDIANA HUB 5MW OFPK CALDAY DA (FAD)</b>								
FAD	Spec	Days 1-11	Decrease	USD	88	80	55	50
FAD	Hedge/Member	Days 1-11	Decrease	USD	80	80	50	50
FAD	Spec	Days 12-15	Decrease	USD	28	25	17	15
FAD	Hedge/Member	Days 12-15	Decrease	USD	25	25	15	15
FAD	Spec	Days 16+	Decrease	USD	22	20	11	10
FAD	Hedge/Member	Days 16+	Decrease	USD	20	20	10	10
<b>MISO INDIANA HUB 5MW OFPK CALDAY RT (FTD)</b>								
FTD	Spec	Days 1-11	Decrease	USD	88	80	55	50
FTD	Hedge/Member	Days 1-11	Decrease	USD	80	80	50	50
FTD	Spec	Days 12-15	Decrease	USD	28	25	17	15
FTD	Hedge/Member	Days 12-15	Decrease	USD	25	25	15	15
FTD	Spec	Days 16+	Decrease	USD	28	25	17	15
FTD	Hedge/Member	Days 16+	Decrease	USD	25	25	15	15
<b>MISO INDIANA HUB 5MW PK CAL DAYHD (PDD)</b>								
PDD	Spec	Days 1-11	Decrease	USD	1,870	1,700	825	750
PDD	Hedge/Member	Days 1-11	Decrease	USD	1,700	1,700	750	750
PDD	Spec	Days 12-15	Decrease	USD	1,100	1,000	495	450
PDD	Hedge/Member	Days 12-15	Decrease	USD	1,000	1,000	450	450
PDD	Spec	Days 16+	Decrease	USD	550	500	385	350
PDD	Hedge/Member	Days 16+	Decrease	USD	500	500	350	350
<b>MISO INDIANA HUB 5MW PK CAL-DAY RT (PTD)</b>								
PTD	Spec	Days 1-11	Decrease	USD	2,200	2,000	1,100	1,000
PTD	Hedge/Member	Days 1-11	Decrease	USD	2,000	2,000	1,000	1,000
PTD	Spec	Days 12-15	Decrease	USD	770	700	605	550

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Outright Rates</b>								
PTD	Hedge/Member	Days 12-15	Decrease	USD	700	700	550	550
PTD	Spec	Days 16+	Decrease	USD	660	600	495	450
PTD	Hedge/Member	Days 16+	Decrease	USD	600	600	450	450
<b>ONTARIO OFF-PK CALENDAR DAY FUTURES (OFD)</b>								
OFD	Spec	Days 1-11	Decrease	CAD	138	125	88	80
OFD	Hedge/Member	Days 1-11	Decrease	CAD	125	125	80	80
OFD	Spec	Days 12-15	Decrease	CAD	77	70	28	25
OFD	Hedge/Member	Days 12-15	Decrease	CAD	70	70	25	25
OFD	Spec	Days 16+	Decrease	CAD	66	60	28	25
OFD	Hedge/Member	Days 16+	Decrease	CAD	60	60	25	25
<b>ONTARIO PEAK CAL-DAY FUTURES (OPD)</b>								
OPD	Spec	Days 1-11	Decrease	CAD	5,500	5,000	1,650	1,500
OPD	Hedge/Member	Days 1-11	Decrease	CAD	5,000	5,000	1,500	1,500
OPD	Spec	Days 12-15	Decrease	CAD	1,320	1,200	660	600
OPD	Hedge/Member	Days 12-15	Decrease	CAD	1,200	1,200	600	600
OPD	Spec	Days 16+	Decrease	CAD	1,210	1,100	468	425
OPD	Hedge/Member	Days 16+	Decrease	CAD	1,100	1,100	425	425
<b>PJM AEP DAYTON HUB DA OP DAILY (PEO)</b>								
PEO	Spec	Days 1 - 11	Decrease	USD	61	55	39	35
PEO	Hedge/Member	Days 1 - 11	Decrease	USD	55	55	35	35
PEO	Spec	Days 12 - 15	Decrease	USD	28	25	17	15
PEO	Hedge/Member	Days 12 - 15	Decrease	USD	25	25	15	15
PEO	Spec	Days 16+	Decrease	USD	28	25	11	10
PEO	Hedge/Member	Days 16+	Decrease	USD	25	25	10	10
<b>PJM AEP DAYTON HUB DA PEAK DAILY (PAP)</b>								
PAP	Spec	Days 1-11	Decrease	USD	2,200	2,000	770	700
PAP	Hedge/Member	Days 1-11	Decrease	USD	2,000	2,000	700	700
PAP	Spec	Days 12-15	Decrease	USD	550	500	330	300
PAP	Hedge/Member	Days 12-15	Decrease	USD	500	500	300	300
PAP	Spec	Days 16+	Decrease	USD	660	600	193	175
PAP	Hedge/Member	Days 16+	Decrease	USD	600	600	175	175

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Outright Rates</b>								
<b>ENVIRONMENTAL - Outright Rates</b>								
<b>CARBON RGGI EMISSION (RJ)</b>								
RJ	Spec		Decrease	USD	440	400	330	300
RJ	Hedge/Member		Decrease	USD	400	400	300	300
<b>IN DELIVERY MONTH EUA FUTURES (6T)</b>								
6T	Spec	Mth 1	Decrease	EUR	660	600	550	500
6T	Hedge/Member	Mth 1	Decrease	EUR	600	600	500	500
6T	Spec	Mths 2+	Decrease	EUR	660	600	550	500
6T	Hedge/Member	Mths 2+	Decrease	EUR	600	600	500	500
<b>EQUITY INDEX - Outright Rates</b>								
<b>BTIC E-MINI NASDAQ BIOTECHNOLOGY (BIT)</b>								
BIT	Spec		Increase	USD	7,700	7,000	9,350	8,500
BIT	Hedge/Member		Increase	USD	7,000	7,000	8,500	8,500
<b>E-MINI CNX NIFTY INDEX FUTURES (II)</b>								
II	Spec		Increase	USD	770	700	1,210	1,100
II	Hedge/Member		Increase	USD	700	700	1,100	1,100
<b>E-MINI NASDAQ BIOTECH SYNT MARKER (BTT)</b>								
BTT	Spec		Increase	USD	7,700	7,000	9,350	8,500
BTT	Hedge/Member		Increase	USD	7,000	7,000	8,500	8,500
<b>E-MINI NASDAQ BIOTECHNOLOGY FUTURES (BQ)</b>								
BQ	Spec		Increase	USD	7,700	7,000	9,350	8,500
BQ	Hedge/Member		Increase	USD	7,000	7,000	8,500	8,500
<b>EMINI SP 500 ENERGY SECTOR INDEX (XAE)</b>								
XAE	Spec		Decrease	USD	4,400	4,000	3,960	3,600
XAE	Hedge/Member		Decrease	USD	4,000	4,000	3,600	3,600
<b>SP 500 ENERGY SELECT SECTOR TIC (XET)</b>								
XET	Spec		Decrease	USD	4,400	4,000	3,960	3,600
XET	Hedge/Member		Decrease	USD	4,000	4,000	3,600	3,600
<b>SP 500 ENERGY SLCT SEC SYNTHETIC (1ET)</b>								
1ET	Spec		Decrease	USD	4,400	4,000	3,960	3,600
1ET	Hedge/Member		Decrease	USD	4,000	4,000	3,600	3,600

## 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	Decrease	USD	6,600	6,000	5,610	5,100
CU	Hedge/Member	Mth 1	Decrease	USD	6,000	6,000	5,100	5,100
CU	Spec	Mths 2	Decrease	USD	6,325	5,750	4,950	4,500
CU	Hedge/Member	Mths 2	Decrease	USD	5,750	5,750	4,500	4,500
CU	Spec	Mth 3-7	Decrease	USD	3,960	3,600	3,300	3,000
CU	Hedge/Member	Mth 3-7	Decrease	USD	3,600	3,600	3,000	3,000
CU	Spec	Mnth 8+	Decrease	USD	3,300	3,000	2,970	2,700
CU	Hedge/Member	Mnth 8+	Decrease	USD	3,000	3,000	2,700	2,700

##### ETHANOL FUTURES (EH)

EH	Spec	Month 1	Decrease	USD	5,940	5,400	4,400	4,000
EH	Hedge/Member	Month 1	Decrease	USD	5,400	5,400	4,000	4,000
EH	Spec	Month 3+	Decrease	USD	2,640	2,400	2,310	2,100
EH	Hedge/Member	Month 3+	Decrease	USD	2,400	2,400	2,100	2,100

##### ETHANOL(PL) T2 FOB RTRDM INCL (Z1)

Z1	Spec	Mnth 1	Increase	EUR	2,970	2,700	4,400	4,000
Z1	Hedge/Member	Mnth 1	Increase	EUR	2,700	2,700	4,000	4,000

##### NEW YORK ETHANOL FUT (EZ)

EZ	Spec	Mth 1	Decrease	USD	11,000	10,000	8,250	7,500
EZ	Hedge/Member	Mth 1	Decrease	USD	10,000	10,000	7,500	7,500
EZ	Spec	Mth 2	Decrease	USD	7,920	7,200	6,050	5,500
EZ	Hedge/Member	Mth 2	Decrease	USD	7,200	7,200	5,500	5,500
EZ	Spec	Mths 3-7	Decrease	USD	6,050	5,500	5,143	4,675
EZ	Hedge/Member	Mths 3-7	Decrease	USD	5,500	5,500	4,675	4,675
EZ	Spec	Mnths 8+	Decrease	USD	5,500	5,000	4,400	4,000
EZ	Hedge/Member	Mnths 8+	Decrease	USD	5,000	5,000	4,000	4,000

#### INTEREST RATES - Outright Rates

##### CME BARCLAYS CAPITAL U.S. AGGREGATE (LBA)

LBA	Spec		Increase	USD	4,950	4,500	7,700	7,000
LBA	Hedge/Member		Increase	USD	4,500	4,500	7,000	7,000

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Outright Rates</b>								
<b>METALS - Outright Rates</b>								
<b>10 TROY OZ GOLD FUTURES (MGC)</b>								
MGC	Spec	Mths 1-4	Decrease	USD	440	400	413	375
MGC	Hedge/Member	Mths 1-4	Decrease	USD	400	400	375	375
MGC	Spec	Mths 5-6	Decrease	USD	440	400	413	375
MGC	Hedge/Member	Mths 5-6	Decrease	USD	400	400	375	375
MGC	Spec	Mths 7-12	Decrease	USD	440	400	413	375
MGC	Hedge/Member	Mths 7-12	Decrease	USD	400	400	375	375
MGC	Spec	Mths 13-16	Decrease	USD	440	400	413	375
MGC	Hedge/Member	Mths 13-16	Decrease	USD	400	400	375	375
MGC	Spec	Mths 17+	Decrease	USD	440	400	413	375
MGC	Hedge/Member	Mths 17+	Decrease	USD	400	400	375	375
<b>1000 OZ SILVER FUTURES (SIL)</b>								
SIL	Spec	Mnths 1-4	Decrease	USD	1,694	1,540	1,540	1,400
SIL	Hedge/Member	Mnths 1-4	Decrease	USD	1,540	1,540	1,400	1,400
SIL	Spec	Mnths 5-6	Decrease	USD	1,694	1,540	1,540	1,400
SIL	Hedge/Member	Mnths 5-6	Decrease	USD	1,540	1,540	1,400	1,400
SIL	Spec	Mnths 7-12	Decrease	USD	1,694	1,540	1,540	1,400
SIL	Hedge/Member	Mnths 7-12	Decrease	USD	1,540	1,540	1,400	1,400
SIL	Spec	Mnths 13+	Decrease	USD	1,694	1,540	1,540	1,400
SIL	Hedge/Member	Mnths 13+	Decrease	USD	1,540	1,540	1,400	1,400
<b>CLEARED OTC LONDON GOLD COLLATERAL (GB)</b>								
GB	Spec		Decrease	USD	61	55	50	45
GB	Hedge/Member		Decrease	USD	55	55	45	45
<b>CLEARED OTC LONDON GOLD FWD (CM) (GBC)</b>								
GBC	Spec		Decrease	USD	61	55	50	45
GBC	Hedge/Member		Decrease	USD	55	55	45	45
<b>COMEX 100 GOLD FUTURES (GC)</b>								
GC	Spec	Mths 1-4	Decrease	USD	4,400	4,000	4,125	3,750
GC	Hedge/Member	Mths 1-4	Decrease	USD	4,000	4,000	3,750	3,750
GC	Spec	Mths 5-6	Decrease	USD	4,400	4,000	4,125	3,750
GC	Hedge/Member	Mths 5-6	Decrease	USD	4,000	4,000	3,750	3,750
GC	Spec	Mths 7-12	Decrease	USD	4,400	4,000	4,125	3,750
GC	Hedge/Member	Mths 7-12	Decrease	USD	4,000	4,000	3,750	3,750
GC	Spec	Mths 13-16	Decrease	USD	4,400	4,000	4,125	3,750
GC	Hedge/Member	Mths 13-16	Decrease	USD	4,000	4,000	3,750	3,750
GC	Spec	Mths 17+	Decrease	USD	4,400	4,000	4,125	3,750
GC	Hedge/Member	Mths 17+	Decrease	USD	4,000	4,000	3,750	3,750

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

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

#### COMEX 100 GOLD TRADE AT SETTLEMENT (GCT)

GCT	Spec	Mths 1-4	Decrease	USD	4,400	4,000	4,125	3,750
GCT	Hedge/Member	Mths 1-4	Decrease	USD	4,000	4,000	3,750	3,750
GCT	Spec	Mths 5-6	Decrease	USD	4,400	4,000	4,125	3,750
GCT	Hedge/Member	Mths 5-6	Decrease	USD	4,000	4,000	3,750	3,750
GCT	Spec	Mths 7-12	Decrease	USD	4,400	4,000	4,125	3,750
GCT	Hedge/Member	Mths 7-12	Decrease	USD	4,000	4,000	3,750	3,750
GCT	Spec	Mths 13-16	Decrease	USD	4,400	4,000	4,125	3,750
GCT	Hedge/Member	Mths 13-16	Decrease	USD	4,000	4,000	3,750	3,750
GCT	Spec	Mths 17+	Decrease	USD	4,400	4,000	4,125	3,750
GCT	Hedge/Member	Mths 17+	Decrease	USD	4,000	4,000	3,750	3,750

#### COMEX 5000 SILVER FUTURES (SI)

SI	Spec	Mnths 1-4	Decrease	USD	8,470	7,700	7,700	7,000
SI	Hedge/Member	Mnths 1-4	Decrease	USD	7,700	7,700	7,000	7,000
SI	Spec	Mnths 5-6	Decrease	USD	8,470	7,700	7,700	7,000
SI	Hedge/Member	Mnths 5-6	Decrease	USD	7,700	7,700	7,000	7,000
SI	Spec	Mnths 7-12	Decrease	USD	8,470	7,700	7,700	7,000
SI	Hedge/Member	Mnths 7-12	Decrease	USD	7,700	7,700	7,000	7,000
SI	Spec	Mnths 13+	Decrease	USD	8,470	7,700	7,700	7,000
SI	Hedge/Member	Mnths 13+	Decrease	USD	7,700	7,700	7,000	7,000

#### COMEX 5000 SILVER TRADE AT SETTLE (SIT)

SIT	Spec	Mnths 1-4	Decrease	USD	8,470	7,700	7,700	7,000
SIT	Hedge/Member	Mnths 1-4	Decrease	USD	7,700	7,700	7,000	7,000
SIT	Spec	Mnths 5-6	Decrease	USD	8,470	7,700	7,700	7,000
SIT	Hedge/Member	Mnths 5-6	Decrease	USD	7,700	7,700	7,000	7,000
SIT	Spec	Mnths 7-12	Decrease	USD	8,470	7,700	7,700	7,000
SIT	Hedge/Member	Mnths 7-12	Decrease	USD	7,700	7,700	7,000	7,000
SIT	Spec	Mnths 13+	Decrease	USD	8,470	7,700	7,700	7,000
SIT	Hedge/Member	Mnths 13+	Decrease	USD	7,700	7,700	7,000	7,000

## 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

#### COMEX MINY GOLD FUTURES (QO)

QO	Spec	Mths 1-4	Decrease	USD	2,200	2,000	2,063	1,875
QO	Hedge/Member	Mths 1-4	Decrease	USD	2,000	2,000	1,875	1,875
QO	Spec	Mths 5-6	Decrease	USD	2,200	2,000	2,063	1,875
QO	Hedge/Member	Mths 5-6	Decrease	USD	2,000	2,000	1,875	1,875
QO	Spec	Mths 7-12	Decrease	USD	2,200	2,000	2,063	1,875
QO	Hedge/Member	Mths 7-12	Decrease	USD	2,000	2,000	1,875	1,875
QO	Spec	Mths 13-16	Decrease	USD	2,200	2,000	2,063	1,875
QO	Hedge/Member	Mths 13-16	Decrease	USD	2,000	2,000	1,875	1,875
QO	Spec	Mths 17+	Decrease	USD	2,200	2,000	2,063	1,875
QO	Hedge/Member	Mths 17+	Decrease	USD	2,000	2,000	1,875	1,875

#### COMEX MINY SILVER FUTURES (QI)

QI	Spec	Mnths 1-4	Decrease	USD	4,235	3,850	3,850	3,500
QI	Hedge/Member	Mnths 1-4	Decrease	USD	3,850	3,850	3,500	3,500
QI	Spec	Mnths 5-6	Decrease	USD	4,235	3,850	3,850	3,500
QI	Hedge/Member	Mnths 5-6	Decrease	USD	3,850	3,850	3,500	3,500
QI	Spec	Mnths 7-12	Decrease	USD	4,235	3,850	3,850	3,500
QI	Hedge/Member	Mnths 7-12	Decrease	USD	3,850	3,850	3,500	3,500
QI	Spec	Mnths 13+	Decrease	USD	4,235	3,850	3,850	3,500
QI	Hedge/Member	Mnths 13+	Decrease	USD	3,850	3,850	3,500	3,500

#### E-MINI SILVER FUTURES (6Q)

6Q	Spec	Mnths 1-4	Decrease	USD	1,694	1,540	1,540	1,400
6Q	Hedge/Member	Mnths 1-4	Decrease	USD	1,540	1,540	1,400	1,400
6Q	Spec	Mnths 5-6	Decrease	USD	1,694	1,540	1,540	1,400
6Q	Hedge/Member	Mnths 5-6	Decrease	USD	1,540	1,540	1,400	1,400
6Q	Spec	Mnths 7-12	Decrease	USD	1,694	1,540	1,540	1,400
6Q	Hedge/Member	Mnths 7-12	Decrease	USD	1,540	1,540	1,400	1,400
6Q	Spec	Mnths 13+	Decrease	USD	1,694	1,540	1,540	1,400
6Q	Hedge/Member	Mnths 13+	Decrease	USD	1,540	1,540	1,400	1,400



## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Outright Rates</b>								
<b>GOLD KILO FUTURES (GCK)</b>								
GCK	Spec	Mths 1-4	Decrease	USD	1,980	1,800	1,815	1,650
GCK	Hedge/Member	Mths 1-4	Decrease	USD	1,800	1,800	1,650	1,650
GCK	Spec	Mths 5-6	Decrease	USD	1,980	1,800	1,815	1,650
GCK	Hedge/Member	Mths 5-6	Decrease	USD	1,800	1,800	1,650	1,650
GCK	Spec	Mths 7-12	Decrease	USD	1,980	1,800	1,815	1,650
GCK	Hedge/Member	Mths 7-12	Decrease	USD	1,800	1,800	1,650	1,650
GCK	Spec	Mths 13-16	Decrease	USD	1,980	1,800	1,815	1,650
GCK	Hedge/Member	Mths 13-16	Decrease	USD	1,800	1,800	1,650	1,650
GCK	Spec	Mths 17+	Decrease	USD	1,980	1,800	1,815	1,650
GCK	Hedge/Member	Mths 17+	Decrease	USD	1,800	1,800	1,650	1,650
<b>IRON ORE FUTURES (TIO)</b>								
TIO	Spec	Mths 1-4	Increase	USD	1,980	1,800	2,365	2,150
TIO	Hedge/Member	Mths 1-4	Increase	USD	1,800	1,800	2,150	2,150

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Outright Rates</b>								
<b>NATURAL GAS - Outright Rates</b>								
<b>E-MINI NATURAL GAS FUTURES (QG)</b>								
QG	Spec	NOV 2019 - OCT	Decrease	USD	426	388	399	363
QG	Hedge/Member	NOV 2019 - OCT	Decrease	USD	388	388	363	363
QG	Spec	NOV 2021+	Decrease	USD	550	500	495	450
QG	Hedge/Member	NOV 2021+	Decrease	USD	500	500	450	450
<b>HENRY HUB FUT (NN)</b>								
NN	Spec	NOV 2019 - OCT	Decrease	USD	426	388	399	363
NN	Hedge/Member	NOV 2019 - OCT	Decrease	USD	388	388	363	363
NN	Spec	NOV 2021+	Decrease	USD	550	500	495	450
NN	Hedge/Member	NOV 2021+	Decrease	USD	500	500	450	450
<b>HENRY HUB FUT TRADE AT SETTLEMENT (NNT)</b>								
NNT	Spec	NOV 2019 - OCT	Decrease	USD	426	388	399	363
NNT	Hedge/Member	NOV 2019 - OCT	Decrease	USD	388	388	363	363
NNT	Spec	NOV 2021+	Decrease	USD	550	500	495	450
NNT	Hedge/Member	NOV 2021+	Decrease	USD	500	500	450	450
<b>HENRY HUB IFERC FIXED PRICE FUT (HHS)</b>								
HHS	Spec	Mnth 1	Decrease	USD	1,320	1,200	770	700
HHS	Hedge/Member	Mnth 1	Decrease	USD	1,200	1,200	700	700
HHS	Spec	Mnths 2	Decrease	USD	1,100	1,000	732	665
HHS	Hedge/Member	Mnths 2	Decrease	USD	1,000	1,000	665	665
HHS	Spec	Mnths 3+	Decrease	USD	770	700	693	630
HHS	Hedge/Member	Mnths 3+	Decrease	USD	700	700	630	630
<b>HENRY HUB NAT GAS LAST DAY DELV (MNG)</b>								
MNG	Spec	NOV '19 - OCT '21	Decrease	USD	426	388	399	363
MNG	Hedge/Member	NOV '19 - OCT '21	Decrease	USD	388	388	363	363
MNG	Spec	NOV 2021+	Decrease	USD	550	500	495	450
MNG	Hedge/Member	NOV 2021+	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
<b>Outright Rates</b>								
<b>HENRY HUB PENULTIMATE (NP)</b>								
NP	Spec	NOV 2019 - OCT	Decrease	USD	426	388	399	363
NP	Hedge/Member	NOV 2019 - OCT	Decrease	USD	388	388	363	363
NP	Spec	NOV 2021+	Decrease	USD	550	500	495	450
NP	Hedge/Member	NOV 2021+	Decrease	USD	500	500	450	450
<b>HH TAS NYMEX NATURAL GAS FUTURES (HHT)</b>								
HHT	Spec	NOV 2019 - OCT	Decrease	USD	1,705	1,550	1,595	1,450
HHT	Hedge/Member	NOV 2019 - OCT	Decrease	USD	1,550	1,550	1,450	1,450
HHT	Spec	NOV 2021+	Decrease	USD	2,200	2,000	1,980	1,800
HHT	Hedge/Member	NOV 2021+	Decrease	USD	2,000	2,000	1,800	1,800
<b>NATURAL GAS HENRY HUB FUTURE (NG)</b>								
NG	Spec	NOV '19 - OCT '21	Decrease	USD	1,705	1,550	1,595	1,450
NG	Hedge/Member	NOV '19 - OCT '21	Decrease	USD	1,550	1,550	1,450	1,450
NG	Spec	NOV 2021+	Decrease	USD	2,200	2,000	1,980	1,800
NG	Hedge/Member	NOV 2021+	Decrease	USD	2,000	2,000	1,800	1,800
<b>NATURAL GAS TRADE AT SETTLEMENT (NGT)</b>								
NGT	Spec	NOV '19 - OCT '21	Decrease	USD	1,705	1,550	1,595	1,450
NGT	Hedge/Member	NOV '19 - OCT '21	Decrease	USD	1,550	1,550	1,450	1,450
NGT	Spec	NOV 2021+	Decrease	USD	2,200	2,000	1,980	1,800
NGT	Hedge/Member	NOV 2021+	Decrease	USD	2,000	2,000	1,800	1,800
<b>NYMEX NATURAL GAS (H.HUB LTD) FUT (HH)</b>								
HH	Spec	NOV 2019 - OCT	Decrease	USD	1,705	1,550	1,595	1,450
HH	Hedge/Member	NOV 2019 - OCT	Decrease	USD	1,550	1,550	1,450	1,450
HH	Spec	NOV 2021+	Decrease	USD	2,200	2,000	1,980	1,800
HH	Hedge/Member	NOV 2021+	Decrease	USD	2,000	2,000	1,800	1,800

## 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

#### **NYMEX NATURAL GAS FUTURES (HP)**

HP	Spec	NOV 2019 - OCT	Decrease	USD	1,705	1,550	1,595	1,450
HP	Hedge/Member	NOV 2019 - OCT	Decrease	USD	1,550	1,550	1,450	1,450
HP	Spec	NOV 2021+	Decrease	USD	2,200	2,000	1,980	1,800
HP	Hedge/Member	NOV 2021+	Decrease	USD	2,000	2,000	1,800	1,800

## 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**

**AGRICULTURE - Intra Spreads**

**Butter (DB) - Tier 1 vs Tier 1 (CASH BUTTER FUTURES)**

CB	Spec		Increase	USD	1,430	1,300	1,760	1,600
CB	Hedge/Member		Increase	USD	1,300	1,300	1,600	1,600

**Nonfat Dry Milk (NF) - Tier 1 vs Tier 2 (NONFAT DRY MILK FUTURES)**

NF	Spec		Increase	USD	1,980	1,800	2,035	1,850
NF	Hedge/Member		Increase	USD	1,800	1,800	1,850	1,850

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Intra Spreads</b>								
<b>CRUDE OIL - Intra Spreads</b>								
<b>CRUDE OIL FINANCIAL FUTURES - 1 Month Condor: Months 1-4 (CRUDE OIL FINANCIAL FUTURES)</b>								
WS	Spec		Decrease	USD	1,320	1,200	880	800
WS	Hedge/Member		Decrease	USD	1,200	1,200	800	800
<b>CRUDE OIL FINANCIAL FUTURES - 1 Month Condor: Months 1-4 (E-MINI CRUDE OIL FUTURES)</b>								
QM	Spec		Decrease	USD	660	600	440	400
QM	Hedge/Member		Decrease	USD	600	600	400	400
<b>CRUDE OIL FINANCIAL FUTURES - 1 Month Condor: Months 1-4 (MICRO CRUDE OIL FUTURES)</b>								
MCL	Spec		Decrease	USD	1	1	1	1
MCL	Hedge/Member		Decrease	USD	1	1	1	1
<b>CRUDE OIL FINANCIAL FUTURES - 1 Month Condor: Months 5-8 (CRUDE OIL FINANCIAL FUTURES)</b>								
WS	Spec		Decrease	USD	165	150	110	100
WS	Hedge/Member		Decrease	USD	150	150	100	100
<b>CRUDE OIL FINANCIAL FUTURES - 1 Month Condor: Months 5-8 (E-MINI CRUDE OIL FUTURES)</b>								
QM	Spec		Decrease	USD	83	75	55	50
QM	Hedge/Member		Decrease	USD	75	75	50	50
<b>CRUDE OIL FINANCIAL FUTURES - 1 Month Condor: Months 5-8 (MICRO CRUDE OIL FUTURES)</b>								
MCL	Spec		Decrease	USD	0	0	0	0
MCL	Hedge/Member		Decrease	USD	0	0	0	0
<b>CRUDE OIL FINANCIAL FUTURES - 1 Month Condor: Months 7-10 (CRUDE OIL FINANCIAL FUTURES)</b>								
WS	Spec		Decrease	USD	165	150	88	80
WS	Hedge/Member		Decrease	USD	150	150	80	80
<b>CRUDE OIL FINANCIAL FUTURES - 1 Month Condor: Months 7-10 (E-MINI CRUDE OIL FUTURES)</b>								
QM	Spec		Decrease	USD	83	75	44	40
QM	Hedge/Member		Decrease	USD	75	75	40	40
<b>CRUDE OIL FINANCIAL FUTURES - 1 Month Condor: Months 7-10 (MICRO CRUDE OIL FUTURES)</b>								
MCL	Spec		Decrease	USD	0	0	0	0
MCL	Hedge/Member		Decrease	USD	0	0	0	0
<b>CRUDE OIL FINANCIAL FUTURES - 1 Month Condor: Months 8-11+ (CRUDE OIL FINANCIAL FUTURES)</b>								
WS	Spec		Decrease	USD	83	75	66	60
WS	Hedge/Member		Decrease	USD	75	75	60	60
<b>CRUDE OIL FINANCIAL FUTURES - 1 Month Condor: Months 8-11+ (E-MINI CRUDE OIL FUTURES)</b>								
QM	Spec		Decrease	USD	41	38	33	30
QM	Hedge/Member		Decrease	USD	38	38	30	30

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Intra Spreads</b>								
<b>CRUDE OIL FINANCIAL FUTURES - 1 Month Condor: Months 8-11+ (MICRO CRUDE OIL FUTURES)</b>								
MCL	Spec		Decrease	USD	0	0	0	0
MCL	Hedge/Member		Decrease	USD	0	0	0	0
<b>Light Sweet Crude Oil (26) - 1 Month Condor Month 1-4 (CRUDE OIL LAST DAY FINANCIAL FUT)</b>								
26	Spec		Decrease	USD	1,320	1,200	880	800
26	Hedge/Member		Decrease	USD	1,200	1,200	800	800
<b>Light Sweet Crude Oil (26) - 1 Month Condor Month 1-4 (SYNCRUDE OIL LAST DAY FINANCI)</b>								
S26	Spec		Decrease	USD	1,320	1,200	880	800
S26	Hedge/Member		Decrease	USD	1,200	1,200	800	800
<b>Light Sweet Crude Oil (26) - 1 Month Condor Month 5-8 (CRUDE OIL LAST DAY FINANCIAL FUT)</b>								
26	Spec		Decrease	USD	165	150	110	100
26	Hedge/Member		Decrease	USD	150	150	100	100
<b>Light Sweet Crude Oil (26) - 1 Month Condor Month 5-8 (SYNCRUDE OIL LAST DAY FINANCI)</b>								
S26	Spec		Decrease	USD	165	150	110	100
S26	Hedge/Member		Decrease	USD	150	150	100	100
<b>Light Sweet Crude Oil (26) - 1 Month Condor Month 7-10 (CRUDE OIL LAST DAY FINANCIAL FUT)</b>								
26	Spec		Decrease	USD	165	150	88	80
26	Hedge/Member		Decrease	USD	150	150	80	80
<b>Light Sweet Crude Oil (26) - 1 Month Condor Month 7-10 (SYNCRUDE OIL LAST DAY FINANCI)</b>								
S26	Spec		Decrease	USD	165	150	88	80
S26	Hedge/Member		Decrease	USD	150	150	80	80
<b>Light Sweet Crude Oil (26) - 1 Month Condor Month 8 - 11+ (CRUDE OIL LAST DAY FINANCIAL FUT)</b>								
26	Spec		Decrease	USD	165	150	66	60
26	Hedge/Member		Decrease	USD	150	150	60	60
<b>Light Sweet Crude Oil (26) - 1 Month Condor Month 8 - 11+ (SYNCRUDE OIL LAST DAY FINANCI)</b>								
S26	Spec		Decrease	USD	165	150	66	60
S26	Hedge/Member		Decrease	USD	150	150	60	60
<b>Light Sweet Crude Oil (CL) - 1 Month Condor Month 10-13 (CRUDE OIL FUTURE NYMEX)</b>								
CL	Spec		Decrease	USD	83	75	66	60
CL	Hedge/Member		Decrease	USD	75	75	60	60
<b>Light Sweet Crude Oil (CL) - 1 Month Condor Month 10-13 (CRUDE OIL TRADE AT MARKER LONDON)</b>								
CLL	Spec		Decrease	USD	83	75	66	60
CLL	Hedge/Member		Decrease	USD	75	75	60	60

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Intra Spreads</b>								
<b>Light Sweet Crude Oil (CL) - 1 Month Condor Month 10-13 (CRUDE OIL TRADE AT MARKER SINGAPORE)</b>								
CLS	Spec		Decrease	USD	83	75	66	60
CLS	Hedge/Member		Decrease	USD	75	75	60	60
<b>Light Sweet Crude Oil (CL) - 1 Month Condor Month 10-13 (CRUDE OIL TRADE AT SETTLEMENT)</b>								
CLT	Spec		Decrease	USD	83	75	66	60
CLT	Hedge/Member		Decrease	USD	75	75	60	60
<b>Light Sweet Crude Oil (CL) - 1 Month Condor Month 11-14 (CRUDE OIL FUTURE NYMEX)</b>								
CL	Spec		Decrease	USD	83	75	66	60
CL	Hedge/Member		Decrease	USD	75	75	60	60
<b>Light Sweet Crude Oil (CL) - 1 Month Condor Month 11-14 (CRUDE OIL TRADE AT MARKER LONDON)</b>								
CLL	Spec		Decrease	USD	83	75	66	60
CLL	Hedge/Member		Decrease	USD	75	75	60	60
<b>Light Sweet Crude Oil (CL) - 1 Month Condor Month 11-14 (CRUDE OIL TRADE AT MARKER SINGAPORE)</b>								
CLS	Spec		Decrease	USD	83	75	66	60
CLS	Hedge/Member		Decrease	USD	75	75	60	60
<b>Light Sweet Crude Oil (CL) - 1 Month Condor Month 11-14 (CRUDE OIL TRADE AT SETTLEMENT)</b>								
CLT	Spec		Decrease	USD	83	75	66	60
CLT	Hedge/Member		Decrease	USD	75	75	60	60
<b>Light Sweet Crude Oil (CL) - 1 Month Condor Month 12-15 (CRUDE OIL FUTURE NYMEX)</b>								
CL	Spec		Decrease	USD	83	75	66	60
CL	Hedge/Member		Decrease	USD	75	75	60	60
<b>Light Sweet Crude Oil (CL) - 1 Month Condor Month 12-15 (CRUDE OIL TRADE AT MARKER LONDON)</b>								
CLL	Spec		Decrease	USD	83	75	66	60
CLL	Hedge/Member		Decrease	USD	75	75	60	60
<b>Light Sweet Crude Oil (CL) - 1 Month Condor Month 12-15 (CRUDE OIL TRADE AT MARKER SINGAPORE)</b>								
CLS	Spec		Decrease	USD	83	75	66	60
CLS	Hedge/Member		Decrease	USD	75	75	60	60
<b>Light Sweet Crude Oil (CL) - 1 Month Condor Month 12-15 (CRUDE OIL TRADE AT SETTLEMENT)</b>								
CLT	Spec		Decrease	USD	83	75	66	60
CLT	Hedge/Member		Decrease	USD	75	75	60	60
<b>Light Sweet Crude Oil (CL) - 1 Month Condor Month 13-16 (CRUDE OIL FUTURE NYMEX)</b>								
CL	Spec		Decrease	USD	83	75	66	60
CL	Hedge/Member		Decrease	USD	75	75	60	60



## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Intra Spreads</b>								
<b>Light Sweet Crude Oil (CL) - 1 Month Condor Month 13-16 (CRUDE OIL TRADE AT MARKER LONDON)</b>								
CLL	Spec		Decrease	USD	83	75	66	60
CLL	Hedge/Member		Decrease	USD	75	75	60	60
<b>Light Sweet Crude Oil (CL) - 1 Month Condor Month 13-16 (CRUDE OIL TRADE AT MARKER SINGAPORE)</b>								
CLS	Spec		Decrease	USD	83	75	66	60
CLS	Hedge/Member		Decrease	USD	75	75	60	60
<b>Light Sweet Crude Oil (CL) - 1 Month Condor Month 13-16 (CRUDE OIL TRADE AT SETTLEMENT)</b>								
CLT	Spec		Decrease	USD	83	75	66	60
CLT	Hedge/Member		Decrease	USD	75	75	60	60
<b>Light Sweet Crude Oil (CL) - 1 Month Condor Month 1-4 (CRUDE OIL FUTURE NYMEX)</b>								
CL	Spec		Decrease	USD	1,320	1,200	880	800
CL	Hedge/Member		Decrease	USD	1,200	1,200	800	800
<b>Light Sweet Crude Oil (CL) - 1 Month Condor Month 1-4 (CRUDE OIL TRADE AT MARKER LONDON)</b>								
CLL	Spec		Decrease	USD	1,320	1,200	880	800
CLL	Hedge/Member		Decrease	USD	1,200	1,200	800	800
<b>Light Sweet Crude Oil (CL) - 1 Month Condor Month 1-4 (CRUDE OIL TRADE AT MARKER SINGAPORE)</b>								
CLS	Spec		Decrease	USD	1,320	1,200	880	800
CLS	Hedge/Member		Decrease	USD	1,200	1,200	800	800
<b>Light Sweet Crude Oil (CL) - 1 Month Condor Month 1-4 (CRUDE OIL TRADE AT SETTLEMENT)</b>								
CLT	Spec		Decrease	USD	1,320	1,200	880	800
CLT	Hedge/Member		Decrease	USD	1,200	1,200	800	800
<b>Light Sweet Crude Oil (CL) - 1 Month Condor Month 14-17 (CRUDE OIL FUTURE NYMEX)</b>								
CL	Spec		Decrease	USD	83	75	66	60
CL	Hedge/Member		Decrease	USD	75	75	60	60
<b>Light Sweet Crude Oil (CL) - 1 Month Condor Month 14-17 (CRUDE OIL TRADE AT MARKER LONDON)</b>								
CLL	Spec		Decrease	USD	83	75	66	60
CLL	Hedge/Member		Decrease	USD	75	75	60	60
<b>Light Sweet Crude Oil (CL) - 1 Month Condor Month 14-17 (CRUDE OIL TRADE AT MARKER SINGAPORE)</b>								
CLS	Spec		Decrease	USD	83	75	66	60
CLS	Hedge/Member		Decrease	USD	75	75	60	60
<b>Light Sweet Crude Oil (CL) - 1 Month Condor Month 14-17 (CRUDE OIL TRADE AT SETTLEMENT)</b>								
CLT	Spec		Decrease	USD	83	75	66	60
CLT	Hedge/Member		Decrease	USD	75	75	60	60

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Intra Spreads</b>								
<b>Light Sweet Crude Oil (CL) - 1 Month Condor Month 15-18 (CRUDE OIL FUTURE NYMEX)</b>								
CL	Spec		Decrease	USD	83	75	66	60
CL	Hedge/Member		Decrease	USD	75	75	60	60
<b>Light Sweet Crude Oil (CL) - 1 Month Condor Month 15-18 (CRUDE OIL TRADE AT MARKER LONDON)</b>								
CLL	Spec		Decrease	USD	83	75	66	60
CLL	Hedge/Member		Decrease	USD	75	75	60	60
<b>Light Sweet Crude Oil (CL) - 1 Month Condor Month 15-18 (CRUDE OIL TRADE AT MARKER SINGAPORE)</b>								
CLS	Spec		Decrease	USD	83	75	66	60
CLS	Hedge/Member		Decrease	USD	75	75	60	60
<b>Light Sweet Crude Oil (CL) - 1 Month Condor Month 15-18 (CRUDE OIL TRADE AT SETTLEMENT)</b>								
CLT	Spec		Decrease	USD	83	75	66	60
CLT	Hedge/Member		Decrease	USD	75	75	60	60
<b>Light Sweet Crude Oil (CL) - 1 Month Condor Month 16-19 (CRUDE OIL FUTURE NYMEX)</b>								
CL	Spec		Decrease	USD	83	75	66	60
CL	Hedge/Member		Decrease	USD	75	75	60	60
<b>Light Sweet Crude Oil (CL) - 1 Month Condor Month 16-19 (CRUDE OIL TRADE AT MARKER LONDON)</b>								
CLL	Spec		Decrease	USD	83	75	66	60
CLL	Hedge/Member		Decrease	USD	75	75	60	60
<b>Light Sweet Crude Oil (CL) - 1 Month Condor Month 16-19 (CRUDE OIL TRADE AT MARKER SINGAPORE)</b>								
CLS	Spec		Decrease	USD	83	75	66	60
CLS	Hedge/Member		Decrease	USD	75	75	60	60
<b>Light Sweet Crude Oil (CL) - 1 Month Condor Month 16-19 (CRUDE OIL TRADE AT SETTLEMENT)</b>								
CLT	Spec		Decrease	USD	83	75	66	60
CLT	Hedge/Member		Decrease	USD	75	75	60	60
<b>Light Sweet Crude Oil (CL) - 1 Month Condor Month 17-20 (CRUDE OIL FUTURE NYMEX)</b>								
CL	Spec		Decrease	USD	83	75	66	60
CL	Hedge/Member		Decrease	USD	75	75	60	60
<b>Light Sweet Crude Oil (CL) - 1 Month Condor Month 17-20 (CRUDE OIL TRADE AT MARKER LONDON)</b>								
CLL	Spec		Decrease	USD	83	75	66	60
CLL	Hedge/Member		Decrease	USD	75	75	60	60
<b>Light Sweet Crude Oil (CL) - 1 Month Condor Month 17-20 (CRUDE OIL TRADE AT MARKER SINGAPORE)</b>								
CLS	Spec		Decrease	USD	83	75	66	60
CLS	Hedge/Member		Decrease	USD	75	75	60	60

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Intra Spreads</b>								
<b>Light Sweet Crude Oil (CL) - 1 Month Condor Month 17-20 (CRUDE OIL TRADE AT SETTLEMENT)</b>								
CLT	Spec		Decrease	USD	83	75	66	60
CLT	Hedge/Member		Decrease	USD	75	75	60	60
<b>Light Sweet Crude Oil (CL) - 1 Month Condor Month 18-21 (CRUDE OIL FUTURE NYMEX)</b>								
CL	Spec		Decrease	USD	83	75	66	60
CL	Hedge/Member		Decrease	USD	75	75	60	60
<b>Light Sweet Crude Oil (CL) - 1 Month Condor Month 18-21 (CRUDE OIL TRADE AT MARKER LONDON)</b>								
CLL	Spec		Decrease	USD	83	75	66	60
CLL	Hedge/Member		Decrease	USD	75	75	60	60
<b>Light Sweet Crude Oil (CL) - 1 Month Condor Month 18-21 (CRUDE OIL TRADE AT MARKER SINGAPORE)</b>								
CLS	Spec		Decrease	USD	83	75	66	60
CLS	Hedge/Member		Decrease	USD	75	75	60	60
<b>Light Sweet Crude Oil (CL) - 1 Month Condor Month 18-21 (CRUDE OIL TRADE AT SETTLEMENT)</b>								
CLT	Spec		Decrease	USD	83	75	66	60
CLT	Hedge/Member		Decrease	USD	75	75	60	60
<b>Light Sweet Crude Oil (CL) - 1 Month Condor Month 19-22 (CRUDE OIL FUTURE NYMEX)</b>								
CL	Spec		Decrease	USD	83	75	66	60
CL	Hedge/Member		Decrease	USD	75	75	60	60
<b>Light Sweet Crude Oil (CL) - 1 Month Condor Month 19-22 (CRUDE OIL TRADE AT MARKER LONDON)</b>								
CLL	Spec		Decrease	USD	83	75	66	60
CLL	Hedge/Member		Decrease	USD	75	75	60	60
<b>Light Sweet Crude Oil (CL) - 1 Month Condor Month 19-22 (CRUDE OIL TRADE AT MARKER SINGAPORE)</b>								
CLS	Spec		Decrease	USD	83	75	66	60
CLS	Hedge/Member		Decrease	USD	75	75	60	60
<b>Light Sweet Crude Oil (CL) - 1 Month Condor Month 19-22 (CRUDE OIL TRADE AT SETTLEMENT)</b>								
CLT	Spec		Decrease	USD	83	75	66	60
CLT	Hedge/Member		Decrease	USD	75	75	60	60
<b>Light Sweet Crude Oil (CL) - 1 Month Condor Month 20-23 (CRUDE OIL FUTURE NYMEX)</b>								
CL	Spec		Decrease	USD	83	75	66	60
CL	Hedge/Member		Decrease	USD	75	75	60	60
<b>Light Sweet Crude Oil (CL) - 1 Month Condor Month 20-23 (CRUDE OIL TRADE AT MARKER LONDON)</b>								
CLL	Spec		Decrease	USD	83	75	66	60
CLL	Hedge/Member		Decrease	USD	75	75	60	60

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Intra Spreads</b>								
<b>Light Sweet Crude Oil (CL) - 1 Month Condor Month 20-23 (CRUDE OIL TRADE AT MARKER SINGAPORE)</b>								
CLS	Spec		Decrease	USD	83	75	66	60
CLS	Hedge/Member		Decrease	USD	75	75	60	60
<b>Light Sweet Crude Oil (CL) - 1 Month Condor Month 20-23 (CRUDE OIL TRADE AT SETTLEMENT)</b>								
CLT	Spec		Decrease	USD	83	75	66	60
CLT	Hedge/Member		Decrease	USD	75	75	60	60
<b>Light Sweet Crude Oil (CL) - 1 Month Condor Month 21-24 (CRUDE OIL FUTURE NYMEX)</b>								
CL	Spec		Decrease	USD	83	75	66	60
CL	Hedge/Member		Decrease	USD	75	75	60	60
<b>Light Sweet Crude Oil (CL) - 1 Month Condor Month 21-24 (CRUDE OIL TRADE AT MARKER LONDON)</b>								
CLL	Spec		Decrease	USD	83	75	66	60
CLL	Hedge/Member		Decrease	USD	75	75	60	60
<b>Light Sweet Crude Oil (CL) - 1 Month Condor Month 21-24 (CRUDE OIL TRADE AT MARKER SINGAPORE)</b>								
CLS	Spec		Decrease	USD	83	75	66	60
CLS	Hedge/Member		Decrease	USD	75	75	60	60
<b>Light Sweet Crude Oil (CL) - 1 Month Condor Month 21-24 (CRUDE OIL TRADE AT SETTLEMENT)</b>								
CLT	Spec		Decrease	USD	83	75	66	60
CLT	Hedge/Member		Decrease	USD	75	75	60	60
<b>Light Sweet Crude Oil (CL) - 1 Month Condor Month 22-25 (CRUDE OIL FUTURE NYMEX)</b>								
CL	Spec		Decrease	USD	83	75	66	60
CL	Hedge/Member		Decrease	USD	75	75	60	60
<b>Light Sweet Crude Oil (CL) - 1 Month Condor Month 22-25 (CRUDE OIL TRADE AT MARKER LONDON)</b>								
CLL	Spec		Decrease	USD	83	75	66	60
CLL	Hedge/Member		Decrease	USD	75	75	60	60
<b>Light Sweet Crude Oil (CL) - 1 Month Condor Month 22-25 (CRUDE OIL TRADE AT MARKER SINGAPORE)</b>								
CLS	Spec		Decrease	USD	83	75	66	60
CLS	Hedge/Member		Decrease	USD	75	75	60	60
<b>Light Sweet Crude Oil (CL) - 1 Month Condor Month 22-25 (CRUDE OIL TRADE AT SETTLEMENT)</b>								
CLT	Spec		Decrease	USD	83	75	66	60
CLT	Hedge/Member		Decrease	USD	75	75	60	60
<b>Light Sweet Crude Oil (CL) - 1 Month Condor Month 23-26 (CRUDE OIL FUTURE NYMEX)</b>								
CL	Spec		Decrease	USD	83	75	66	60
CL	Hedge/Member		Decrease	USD	75	75	60	60

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Intra Spreads</b>								
<b>Light Sweet Crude Oil (CL) - 1 Month Condor Month 23-26 (CRUDE OIL TRADE AT MARKER LONDON)</b>								
CLL	Spec		Decrease	USD	83	75	66	60
CLL	Hedge/Member		Decrease	USD	75	75	60	60
<b>Light Sweet Crude Oil (CL) - 1 Month Condor Month 23-26 (CRUDE OIL TRADE AT MARKER SINGAPORE)</b>								
CLS	Spec		Decrease	USD	83	75	66	60
CLS	Hedge/Member		Decrease	USD	75	75	60	60
<b>Light Sweet Crude Oil (CL) - 1 Month Condor Month 23-26 (CRUDE OIL TRADE AT SETTLEMENT)</b>								
CLT	Spec		Decrease	USD	83	75	66	60
CLT	Hedge/Member		Decrease	USD	75	75	60	60
<b>Light Sweet Crude Oil (CL) - 1 Month Condor Month 24-27 (CRUDE OIL FUTURE NYMEX)</b>								
CL	Spec		Decrease	USD	83	75	66	60
CL	Hedge/Member		Decrease	USD	75	75	60	60
<b>Light Sweet Crude Oil (CL) - 1 Month Condor Month 24-27 (CRUDE OIL TRADE AT MARKER LONDON)</b>								
CLL	Spec		Decrease	USD	83	75	66	60
CLL	Hedge/Member		Decrease	USD	75	75	60	60
<b>Light Sweet Crude Oil (CL) - 1 Month Condor Month 24-27 (CRUDE OIL TRADE AT MARKER SINGAPORE)</b>								
CLS	Spec		Decrease	USD	83	75	66	60
CLS	Hedge/Member		Decrease	USD	75	75	60	60
<b>Light Sweet Crude Oil (CL) - 1 Month Condor Month 24-27 (CRUDE OIL TRADE AT SETTLEMENT)</b>								
CLT	Spec		Decrease	USD	83	75	66	60
CLT	Hedge/Member		Decrease	USD	75	75	60	60
<b>Light Sweet Crude Oil (CL) - 1 Month Condor Month 25-28 (CRUDE OIL FUTURE NYMEX)</b>								
CL	Spec		Decrease	USD	83	75	66	60
CL	Hedge/Member		Decrease	USD	75	75	60	60
<b>Light Sweet Crude Oil (CL) - 1 Month Condor Month 25-28 (CRUDE OIL TRADE AT MARKER LONDON)</b>								
CLL	Spec		Decrease	USD	83	75	66	60
CLL	Hedge/Member		Decrease	USD	75	75	60	60
<b>Light Sweet Crude Oil (CL) - 1 Month Condor Month 25-28 (CRUDE OIL TRADE AT MARKER SINGAPORE)</b>								
CLS	Spec		Decrease	USD	83	75	66	60
CLS	Hedge/Member		Decrease	USD	75	75	60	60
<b>Light Sweet Crude Oil (CL) - 1 Month Condor Month 25-28 (CRUDE OIL TRADE AT SETTLEMENT)</b>								
CLT	Spec		Decrease	USD	83	75	66	60
CLT	Hedge/Member		Decrease	USD	75	75	60	60

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Intra Spreads</b>								
<b>Light Sweet Crude Oil (CL) - 1 Month Condor Month 26-29 (CRUDE OIL FUTURE NYMEX)</b>								
CL	Spec		Decrease	USD	83	75	66	60
CL	Hedge/Member		Decrease	USD	75	75	60	60
<b>Light Sweet Crude Oil (CL) - 1 Month Condor Month 26-29 (CRUDE OIL TRADE AT MARKER LONDON)</b>								
CLL	Spec		Decrease	USD	83	75	66	60
CLL	Hedge/Member		Decrease	USD	75	75	60	60
<b>Light Sweet Crude Oil (CL) - 1 Month Condor Month 26-29 (CRUDE OIL TRADE AT MARKER SINGAPORE)</b>								
CLS	Spec		Decrease	USD	83	75	66	60
CLS	Hedge/Member		Decrease	USD	75	75	60	60
<b>Light Sweet Crude Oil (CL) - 1 Month Condor Month 26-29 (CRUDE OIL TRADE AT SETTLEMENT)</b>								
CLT	Spec		Decrease	USD	83	75	66	60
CLT	Hedge/Member		Decrease	USD	75	75	60	60
<b>Light Sweet Crude Oil (CL) - 1 Month Condor Month 27-30 (CRUDE OIL FUTURE NYMEX)</b>								
CL	Spec		Decrease	USD	83	75	66	60
CL	Hedge/Member		Decrease	USD	75	75	60	60
<b>Light Sweet Crude Oil (CL) - 1 Month Condor Month 27-30 (CRUDE OIL TRADE AT MARKER LONDON)</b>								
CLL	Spec		Decrease	USD	83	75	66	60
CLL	Hedge/Member		Decrease	USD	75	75	60	60
<b>Light Sweet Crude Oil (CL) - 1 Month Condor Month 27-30 (CRUDE OIL TRADE AT MARKER SINGAPORE)</b>								
CLS	Spec		Decrease	USD	83	75	66	60
CLS	Hedge/Member		Decrease	USD	75	75	60	60
<b>Light Sweet Crude Oil (CL) - 1 Month Condor Month 27-30 (CRUDE OIL TRADE AT SETTLEMENT)</b>								
CLT	Spec		Decrease	USD	83	75	66	60
CLT	Hedge/Member		Decrease	USD	75	75	60	60
<b>Light Sweet Crude Oil (CL) - 1 Month Condor Month 28-31 (CRUDE OIL FUTURE NYMEX)</b>								
CL	Spec		Decrease	USD	83	75	66	60
CL	Hedge/Member		Decrease	USD	75	75	60	60
<b>Light Sweet Crude Oil (CL) - 1 Month Condor Month 28-31 (CRUDE OIL TRADE AT MARKER LONDON)</b>								
CLL	Spec		Decrease	USD	83	75	66	60
CLL	Hedge/Member		Decrease	USD	75	75	60	60
<b>Light Sweet Crude Oil (CL) - 1 Month Condor Month 28-31 (CRUDE OIL TRADE AT MARKER SINGAPORE)</b>								
CLS	Spec		Decrease	USD	83	75	66	60
CLS	Hedge/Member		Decrease	USD	75	75	60	60

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Intra Spreads</b>								
<b>Light Sweet Crude Oil (CL) - 1 Month Condor Month 28-31 (CRUDE OIL TRADE AT SETTLEMENT)</b>								
CLT	Spec		Decrease	USD	83	75	66	60
CLT	Hedge/Member		Decrease	USD	75	75	60	60
<b>Light Sweet Crude Oil (CL) - 1 Month Condor Month 29-32 (CRUDE OIL FUTURE NYMEX)</b>								
CL	Spec		Decrease	USD	83	75	66	60
CL	Hedge/Member		Decrease	USD	75	75	60	60
<b>Light Sweet Crude Oil (CL) - 1 Month Condor Month 29-32 (CRUDE OIL TRADE AT MARKER LONDON)</b>								
CLL	Spec		Decrease	USD	83	75	66	60
CLL	Hedge/Member		Decrease	USD	75	75	60	60
<b>Light Sweet Crude Oil (CL) - 1 Month Condor Month 29-32 (CRUDE OIL TRADE AT MARKER SINGAPORE)</b>								
CLS	Spec		Decrease	USD	83	75	66	60
CLS	Hedge/Member		Decrease	USD	75	75	60	60
<b>Light Sweet Crude Oil (CL) - 1 Month Condor Month 29-32 (CRUDE OIL TRADE AT SETTLEMENT)</b>								
CLT	Spec		Decrease	USD	83	75	66	60
CLT	Hedge/Member		Decrease	USD	75	75	60	60
<b>Light Sweet Crude Oil (CL) - 1 Month Condor Month 30-33 (CRUDE OIL FUTURE NYMEX)</b>								
CL	Spec		Decrease	USD	83	75	66	60
CL	Hedge/Member		Decrease	USD	75	75	60	60
<b>Light Sweet Crude Oil (CL) - 1 Month Condor Month 30-33 (CRUDE OIL TRADE AT MARKER LONDON)</b>								
CLL	Spec		Decrease	USD	83	75	66	60
CLL	Hedge/Member		Decrease	USD	75	75	60	60
<b>Light Sweet Crude Oil (CL) - 1 Month Condor Month 30-33 (CRUDE OIL TRADE AT MARKER SINGAPORE)</b>								
CLS	Spec		Decrease	USD	83	75	66	60
CLS	Hedge/Member		Decrease	USD	75	75	60	60
<b>Light Sweet Crude Oil (CL) - 1 Month Condor Month 30-33 (CRUDE OIL TRADE AT SETTLEMENT)</b>								
CLT	Spec		Decrease	USD	83	75	66	60
CLT	Hedge/Member		Decrease	USD	75	75	60	60
<b>Light Sweet Crude Oil (CL) - 1 Month Condor Month 31-34 (CRUDE OIL FUTURE NYMEX)</b>								
CL	Spec		Decrease	USD	83	75	66	60
CL	Hedge/Member		Decrease	USD	75	75	60	60
<b>Light Sweet Crude Oil (CL) - 1 Month Condor Month 31-34 (CRUDE OIL TRADE AT MARKER LONDON)</b>								
CLL	Spec		Decrease	USD	83	75	66	60
CLL	Hedge/Member		Decrease	USD	75	75	60	60

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Intra Spreads</b>								
<b>Light Sweet Crude Oil (CL) - 1 Month Condor Month 31-34 (CRUDE OIL TRADE AT MARKER SINGAPORE)</b>								
CLS	Spec		Decrease	USD	83	75	66	60
CLS	Hedge/Member		Decrease	USD	75	75	60	60
<b>Light Sweet Crude Oil (CL) - 1 Month Condor Month 31-34 (CRUDE OIL TRADE AT SETTLEMENT)</b>								
CLT	Spec		Decrease	USD	83	75	66	60
CLT	Hedge/Member		Decrease	USD	75	75	60	60
<b>Light Sweet Crude Oil (CL) - 1 Month Condor Month 32-35 (CRUDE OIL FUTURE NYMEX)</b>								
CL	Spec		Decrease	USD	83	75	66	60
CL	Hedge/Member		Decrease	USD	75	75	60	60
<b>Light Sweet Crude Oil (CL) - 1 Month Condor Month 32-35 (CRUDE OIL TRADE AT MARKER LONDON)</b>								
CLL	Spec		Decrease	USD	83	75	66	60
CLL	Hedge/Member		Decrease	USD	75	75	60	60
<b>Light Sweet Crude Oil (CL) - 1 Month Condor Month 32-35 (CRUDE OIL TRADE AT MARKER SINGAPORE)</b>								
CLS	Spec		Decrease	USD	83	75	66	60
CLS	Hedge/Member		Decrease	USD	75	75	60	60
<b>Light Sweet Crude Oil (CL) - 1 Month Condor Month 32-35 (CRUDE OIL TRADE AT SETTLEMENT)</b>								
CLT	Spec		Decrease	USD	83	75	66	60
CLT	Hedge/Member		Decrease	USD	75	75	60	60
<b>Light Sweet Crude Oil (CL) - 1 Month Condor Month 33-36 (CRUDE OIL FUTURE NYMEX)</b>								
CL	Spec		Decrease	USD	83	75	66	60
CL	Hedge/Member		Decrease	USD	75	75	60	60
<b>Light Sweet Crude Oil (CL) - 1 Month Condor Month 33-36 (CRUDE OIL TRADE AT MARKER LONDON)</b>								
CLL	Spec		Decrease	USD	83	75	66	60
CLL	Hedge/Member		Decrease	USD	75	75	60	60
<b>Light Sweet Crude Oil (CL) - 1 Month Condor Month 33-36 (CRUDE OIL TRADE AT MARKER SINGAPORE)</b>								
CLS	Spec		Decrease	USD	83	75	66	60
CLS	Hedge/Member		Decrease	USD	75	75	60	60
<b>Light Sweet Crude Oil (CL) - 1 Month Condor Month 33-36 (CRUDE OIL TRADE AT SETTLEMENT)</b>								
CLT	Spec		Decrease	USD	83	75	66	60
CLT	Hedge/Member		Decrease	USD	75	75	60	60
<b>Light Sweet Crude Oil (CL) - 1 Month Condor Month 34-37 (CRUDE OIL FUTURE NYMEX)</b>								
CL	Spec		Decrease	USD	83	75	66	60
CL	Hedge/Member		Decrease	USD	75	75	60	60



## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Intra Spreads</b>								
<b>Light Sweet Crude Oil (CL) - 1 Month Condor Month 34-37 (CRUDE OIL TRADE AT MARKER LONDON)</b>								
CLL	Spec		Decrease	USD	83	75	66	60
CLL	Hedge/Member		Decrease	USD	75	75	60	60
<b>Light Sweet Crude Oil (CL) - 1 Month Condor Month 34-37 (CRUDE OIL TRADE AT MARKER SINGAPORE)</b>								
CLS	Spec		Decrease	USD	83	75	66	60
CLS	Hedge/Member		Decrease	USD	75	75	60	60
<b>Light Sweet Crude Oil (CL) - 1 Month Condor Month 34-37 (CRUDE OIL TRADE AT SETTLEMENT)</b>								
CLT	Spec		Decrease	USD	83	75	66	60
CLT	Hedge/Member		Decrease	USD	75	75	60	60
<b>Light Sweet Crude Oil (CL) - 1 Month Condor Month 35-38 (CRUDE OIL FUTURE NYMEX)</b>								
CL	Spec		Decrease	USD	83	75	66	60
CL	Hedge/Member		Decrease	USD	75	75	60	60
<b>Light Sweet Crude Oil (CL) - 1 Month Condor Month 35-38 (CRUDE OIL TRADE AT MARKER LONDON)</b>								
CLL	Spec		Decrease	USD	83	75	66	60
CLL	Hedge/Member		Decrease	USD	75	75	60	60
<b>Light Sweet Crude Oil (CL) - 1 Month Condor Month 35-38 (CRUDE OIL TRADE AT MARKER SINGAPORE)</b>								
CLS	Spec		Decrease	USD	83	75	66	60
CLS	Hedge/Member		Decrease	USD	75	75	60	60
<b>Light Sweet Crude Oil (CL) - 1 Month Condor Month 35-38 (CRUDE OIL TRADE AT SETTLEMENT)</b>								
CLT	Spec		Decrease	USD	83	75	66	60
CLT	Hedge/Member		Decrease	USD	75	75	60	60
<b>Light Sweet Crude Oil (CL) - 1 Month Condor Month 36-39 (CRUDE OIL FUTURE NYMEX)</b>								
CL	Spec		Decrease	USD	83	75	66	60
CL	Hedge/Member		Decrease	USD	75	75	60	60
<b>Light Sweet Crude Oil (CL) - 1 Month Condor Month 36-39 (CRUDE OIL TRADE AT MARKER LONDON)</b>								
CLL	Spec		Decrease	USD	83	75	66	60
CLL	Hedge/Member		Decrease	USD	75	75	60	60
<b>Light Sweet Crude Oil (CL) - 1 Month Condor Month 36-39 (CRUDE OIL TRADE AT MARKER SINGAPORE)</b>								
CLS	Spec		Decrease	USD	83	75	66	60
CLS	Hedge/Member		Decrease	USD	75	75	60	60
<b>Light Sweet Crude Oil (CL) - 1 Month Condor Month 36-39 (CRUDE OIL TRADE AT SETTLEMENT)</b>								
CLT	Spec		Decrease	USD	83	75	66	60
CLT	Hedge/Member		Decrease	USD	75	75	60	60

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Intra Spreads</b>								
<b>Light Sweet Crude Oil (CL) - 1 Month Condor Month 37 - 40 + (CRUDE OIL FUTURE NYMEX)</b>								
CL	Spec		Decrease	USD	83	75	66	60
CL	Hedge/Member		Decrease	USD	75	75	60	60
<b>Light Sweet Crude Oil (CL) - 1 Month Condor Month 37 - 40 + (CRUDE OIL TRADE AT MARKER LONDON)</b>								
CLL	Spec		Decrease	USD	83	75	66	60
CLL	Hedge/Member		Decrease	USD	75	75	60	60
<b>Light Sweet Crude Oil (CL) - 1 Month Condor Month 37 - 40 + (CRUDE OIL TRADE AT MARKER SINGAPORE)</b>								
CLS	Spec		Decrease	USD	83	75	66	60
CLS	Hedge/Member		Decrease	USD	75	75	60	60
<b>Light Sweet Crude Oil (CL) - 1 Month Condor Month 37 - 40 + (CRUDE OIL TRADE AT SETTLEMENT)</b>								
CLT	Spec		Decrease	USD	83	75	66	60
CLT	Hedge/Member		Decrease	USD	75	75	60	60
<b>Light Sweet Crude Oil (CL) - 1 Month Condor Month 5-8 (CRUDE OIL FUTURE NYMEX)</b>								
CL	Spec		Decrease	USD	165	150	110	100
CL	Hedge/Member		Decrease	USD	150	150	100	100
<b>Light Sweet Crude Oil (CL) - 1 Month Condor Month 5-8 (CRUDE OIL TRADE AT MARKER LONDON)</b>								
CLL	Spec		Decrease	USD	165	150	110	100
CLL	Hedge/Member		Decrease	USD	150	150	100	100
<b>Light Sweet Crude Oil (CL) - 1 Month Condor Month 5-8 (CRUDE OIL TRADE AT MARKER SINGAPORE)</b>								
CLS	Spec		Decrease	USD	165	150	110	100
CLS	Hedge/Member		Decrease	USD	150	150	100	100
<b>Light Sweet Crude Oil (CL) - 1 Month Condor Month 5-8 (CRUDE OIL TRADE AT SETTLEMENT)</b>								
CLT	Spec		Decrease	USD	165	150	110	100
CLT	Hedge/Member		Decrease	USD	150	150	100	100
<b>Light Sweet Crude Oil (CL) - 1 Month Condor Month 7-10 (CRUDE OIL FUTURE NYMEX)</b>								
CL	Spec		Decrease	USD	165	150	88	80
CL	Hedge/Member		Decrease	USD	150	150	80	80
<b>Light Sweet Crude Oil (CL) - 1 Month Condor Month 7-10 (CRUDE OIL TRADE AT MARKER LONDON)</b>								
CLL	Spec		Decrease	USD	165	150	88	80
CLL	Hedge/Member		Decrease	USD	150	150	80	80
<b>Light Sweet Crude Oil (CL) - 1 Month Condor Month 7-10 (CRUDE OIL TRADE AT MARKER SINGAPORE)</b>								
CLS	Spec		Decrease	USD	165	150	88	80
CLS	Hedge/Member		Decrease	USD	150	150	80	80

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Intra Spreads</b>								
<b>Light Sweet Crude Oil (CL) - 1 Month Condor Month 7-10 (CRUDE OIL TRADE AT SETTLEMENT)</b>								
CLT	Spec		Decrease	USD	165	150	88	80
CLT	Hedge/Member		Decrease	USD	150	150	80	80
<b>Light Sweet Crude Oil (CL) - 1 Month Condor Month 8-11 (CRUDE OIL FUTURE NYMEX)</b>								
CL	Spec		Decrease	USD	83	75	66	60
CL	Hedge/Member		Decrease	USD	75	75	60	60
<b>Light Sweet Crude Oil (CL) - 1 Month Condor Month 8-11 (CRUDE OIL TRADE AT MARKER LONDON)</b>								
CLL	Spec		Decrease	USD	83	75	66	60
CLL	Hedge/Member		Decrease	USD	75	75	60	60
<b>Light Sweet Crude Oil (CL) - 1 Month Condor Month 8-11 (CRUDE OIL TRADE AT MARKER SINGAPORE)</b>								
CLS	Spec		Decrease	USD	83	75	66	60
CLS	Hedge/Member		Decrease	USD	75	75	60	60
<b>Light Sweet Crude Oil (CL) - 1 Month Condor Month 8-11 (CRUDE OIL TRADE AT SETTLEMENT)</b>								
CLT	Spec		Decrease	USD	83	75	66	60
CLT	Hedge/Member		Decrease	USD	75	75	60	60
<b>Light Sweet Crude Oil (CL) - 1 Month Condor Month 9-12 (CRUDE OIL FUTURE NYMEX)</b>								
CL	Spec		Decrease	USD	83	75	66	60
CL	Hedge/Member		Decrease	USD	75	75	60	60
<b>Light Sweet Crude Oil (CL) - 1 Month Condor Month 9-12 (CRUDE OIL TRADE AT MARKER LONDON)</b>								
CLL	Spec		Decrease	USD	83	75	66	60
CLL	Hedge/Member		Decrease	USD	75	75	60	60
<b>Light Sweet Crude Oil (CL) - 1 Month Condor Month 9-12 (CRUDE OIL TRADE AT MARKER SINGAPORE)</b>								
CLS	Spec		Decrease	USD	83	75	66	60
CLS	Hedge/Member		Decrease	USD	75	75	60	60
<b>Light Sweet Crude Oil (CL) - 1 Month Condor Month 9-12 (CRUDE OIL TRADE AT SETTLEMENT)</b>								
CLT	Spec		Decrease	USD	83	75	66	60
CLT	Hedge/Member		Decrease	USD	75	75	60	60
<b>WTI Calendar Swap (CL) - 1 Month Condor Month 8 - 11+ (WTI CALENDAR FUT)</b>								
CS	Spec		Decrease	USD	83	75	66	60
CS	Hedge/Member		Decrease	USD	75	75	60	60
<b>WTI Calendar Swap (CS) - 1 Month Condor Month 1-4. (WTI CALENDAR FUT)</b>								
CS	Spec		Decrease	USD	1,320	1,200	880	800
CS	Hedge/Member		Decrease	USD	1,200	1,200	800	800

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Intra Spreads</b>								
<b>WTI Calendar Swap (CS) - 1 Month Condor Month 5-8. (WTI CALENDAR FUT)</b>								
CS	Spec		Decrease	USD	165	150	110	100
CS	Hedge/Member		Decrease	USD	150	150	100	100
<b>WTI Calendar Swap (CS) - 1 Month Condor Month 7 - 10 (WTI CALENDAR FUT)</b>								
CS	Spec		Decrease	USD	165	150	88	80
CS	Hedge/Member		Decrease	USD	150	150	80	80
<b>ELECTRICITY - Intra Spreads</b>								
<b>PJM Meted Zone Off-Peak Calendar-Month Day-Ahead LMP - All Months (PJM METED ZONE OFFPK CAL MO LMP FUT)</b>								
46	Spec		Increase	USD	11	10	17	15
46	Hedge/Member		Increase	USD	10	10	15	15
<b>ENVIRONMENTAL - Intra Spreads</b>								
<b>In Delivery Month European Union Allowance (EUA) Futures - All Months (IN DELIVERY MONTH EUA FUTURES)</b>								
6T	Spec		Decrease	EUR	495	450	275	250
6T	Hedge/Member		Decrease	EUR	450	450	250	250

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Intra Spreads</b>								
<b>ETHANOL - Intra Spreads</b>								
<b>CBOT Ethanol Futures (EH) - All Non-Consecutive Months (ETHANOL FUTURES)</b>								
EH	Spec		Decrease	USD	1,980	1,800	1,100	1,000
EH	Hedge/Member		Decrease	USD	1,800	1,800	1,000	1,000
<b>Chicago Ethanol (Platts) Swap, Tier 1 vs. Tier 2 (CHICAGO ETHANOL FUT)</b>								
CU	Spec		Decrease	USD	2,750	2,500	2,063	1,875
CU	Hedge/Member		Decrease	USD	2,500	2,500	1,875	1,875
<b>Chicago Ethanol (Platts) Swap, Tier 1 vs. Tier 3 (CHICAGO ETHANOL FUT)</b>								
CU	Spec		Decrease	USD	3,960	3,600	2,200	2,000
CU	Hedge/Member		Decrease	USD	3,600	3,600	2,000	2,000
<b>Chicago Ethanol (Platts) Swap, Tier 2 vs. Tier 2 (CHICAGO ETHANOL FUT)</b>								
CU	Spec		Decrease	USD	2,365	2,150	1,485	1,350
CU	Hedge/Member		Decrease	USD	2,150	2,150	1,350	1,350
<b>Chicago Ethanol (Platts) Swap, Tier 2 vs. Tier 3 (CHICAGO ETHANOL FUT)</b>								
CU	Spec		Decrease	USD	2,475	2,250	1,375	1,250
CU	Hedge/Member		Decrease	USD	2,250	2,250	1,250	1,250
<b>Chicago Ethanol (Platts) Swap, Tier 3 vs. Tier 3 (CHICAGO ETHANOL FUT)</b>								
CU	Spec		Decrease	USD	2,200	2,000	1,650	1,500
CU	Hedge/Member		Decrease	USD	2,000	2,000	1,500	1,500
<b>New York Ethanol (Platts) Swap, Tier 1 vs. Tier 2 (NEW YORK ETHANOL FUT)</b>								
EZ	Spec		Decrease	USD	6,600	6,000	4,620	4,200
EZ	Hedge/Member		Decrease	USD	6,000	6,000	4,200	4,200
<b>INTEREST RATES - Intra Spreads</b>								
<b>10 Year Treasury Note (21) - All Months Butterfly (10Y TREASURY NOTE FUTURES)</b>								
21	Spec		Increase	USD	110	100	138	125
21	Hedge/Member		Increase	USD	100	100	125	125
<b>Eurodollar (ED) - 3 Month Butterfly [Mo. 16] (EURODOLLAR FUTURES)</b>								
ED	Spec		Increase	USD	11	10	22	20
ED	Hedge/Member		Increase	USD	10	10	20	20
<b>Eurodollar (ED) - Butterfly [Mo. 04] (EURODOLLAR FUTURES)</b>								
ED	Spec		Increase	USD	11	10	22	20
ED	Hedge/Member		Increase	USD	10	10	20	20
<b>Eurodollar (ED) - Butterfly [Mo. 08] (EURODOLLAR FUTURES)</b>								
ED	Spec		Increase	USD	11	10	22	20
ED	Hedge/Member		Increase	USD	10	10	20	20

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Intra Spreads</b>								
<b>PETROLEUM CRACKS AND SPREADS - Intra Spreads</b>								
<b>LA Jet Fuel vs. NYMEX #2 HO Spread Swap - All Months (LA JT FL(PLATTS) VS.NY HRBR ULSD FU)</b>								
MQ	Spec		Increase	USD	264	240	528	480
MQ	Hedge/Member		Increase	USD	240	240	480	480
<b>NY ULSD (Platts) vs. NYMEX HO Spread Swap - All Months (NY ULSD (PLATTS) VS NY HRBR FUT)</b>								
UY	Spec		Increase	USD	440	400	660	600
UY	Hedge/Member		Increase	USD	400	400	600	600
<b>Singapore Fuel Oil Spread Swap - Tier 1 vs Tier 1 (SINGAPORE FUEL OIL SPREAD FUT)</b>								
SD	Spec		Increase	USD	1,650	1,500	1,815	1,650
SD	Hedge/Member		Increase	USD	1,500	1,500	1,650	1,650

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Inter-commodity Spread Rates</b>						
<b>COAL - Inter-commodity Spread Rates</b>						
<b>BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME) vs COAL (API 2) CIF ARA (ARGUS/MCCLOSKEY) SWAP FUTURES (NY-MTF - CME)</b>						
Spread Credit Rate	Increase	+1:-1	0%	0%	30%	30%
<b>BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME) vs COAL (API 2) CIF ARA (ARGUS/MCCLOSKEY) SWAP FUTURES (NY-MTF - CME).</b>						
Spread Credit Rate	Decrease	+1:-1	35%	35%	30%	30%
<b>BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME) vs COAL (API 4) FOB RICHARDS BAY (ARGUS/MCCLOSKEY) SWAP FUTURES (NY-MFF - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	30%	30%	20%	20%
<b>BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME) vs COAL (API 2) CIF ARA (ARGUS/MCCLOSKEY) SWAP FUTURES (NY-MTF - CME)</b>						
Spread Credit Rate	Increase	+1:-1	0%	0%	30%	30%
<b>BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME) vs COAL (API 4) FOB RICHARDS BAY (ARGUS/MCCLOSKEY) SWAP FUTURES (NY-MFF - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	30%	30%	20%	20%
<b>BRENT CRUDE OIL PENULTIMATE FINANCIAL FUTURES (NY-BB - CME) vs COAL (API 2) CIF ARA (ARGUS/MCCLOSKEY) SWAP FUTURES (NY-MTF - CME)</b>						
Spread Credit Rate	Increase	+1:-1	0%	0%	30%	30%
<b>BRENT CRUDE OIL PENULTIMATE FINANCIAL FUTURES (NY-BB - CME) vs COAL (API 4) FOB RICHARDS BAY (ARGUS/MCCLOSKEY) SWAP FUTURES (NY-MFF - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	30%	30%	20%	20%
<b>COAL (API 2) CIF ARA (ARGUS/MCCLOSKEY) SWAP FUTURES (NY-MTF - CME) vs DATED BRENT (PLATTS) CALENDAR SWAP FUTURES (NY-UB - CME)</b>						
Spread Credit Rate	Increase	+1:-1	0%	0%	30%	30%
<b>COAL (API 2) CIF ARA (ARGUS/MCCLOSKEY) SWAP FUTURES (NY-MTF - CME) vs LIGHT SWEET CRUDE OIL FUTURES (NY-CL - CME)</b>						
Spread Credit Rate	Increase	+1:-1	0%	0%	25%	25%
<b>COAL (API 2) CIF ARA (ARGUS/MCCLOSKEY) SWAP FUTURES (NY-MTF - CME) vs WTI CALENDAR SWAP FUTURES (NY-CS - CME).</b>						
Spread Credit Rate	Increase	+1:-1	0%	0%	25%	25%
<b>COAL (API 4) FOB RICHARDS BAY (ARGUS/MCCLOSKEY) SWAP FUTURES (NY-MFF - CME) vs CRUDE OIL FINANCIAL FUTURES (NY-WS - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	30%	30%	10%	10%
<b>COAL (API 4) FOB RICHARDS BAY (ARGUS/MCCLOSKEY) SWAP FUTURES (NY-MFF - CME) vs CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-26 - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	30%	30%	10%	10%
<b>COAL (API 4) FOB RICHARDS BAY (ARGUS/MCCLOSKEY) SWAP FUTURES (NY-MFF - CME) vs DATED BRENT (PLATTS) CALENDAR SWAP FUTURES (NY-UB - CME)</b>						
Spread Credit Rate	Increase	+1:-1	0%	0%	20%	20%

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Inter-commodity Spread Rates</b>						
<b>COAL (API 4) FOB RICHARDS BAY (ARGUS/MCCLOSKEY) SWAP FUTURES (NY-MFF - CME) vs LIGHT SWEET CRUDE OIL FUTURES (NY-CL - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	30%	30%	10%	10%
<b>COAL (API 4) FOB RICHARDS BAY (ARGUS/MCCLOSKEY) SWAP FUTURES (NY-MFF - CME) vs WTI CALENDAR SWAP FUTURES (NY-CS - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	30%	30%	10%	10%
<b>COAL (API 4) FOB RICHARDS BAY (ARGUS/MCCLOSKEY) SWAP FUTURES (NY-MFF - CME) vs WTI CALENDAR SWAP FUTURES (NY-CS - CME).</b>						
Spread Credit Rate	Decrease	+1:-1	30%	30%	10%	10%



## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Inter-commodity Spread Rates</b>						
<b>CRUDE OIL - Inter-commodity Spread Rates</b>						
<b>1% FUEL OIL (PLATTS) CARGOES CIF MED SWAP FUTURES (NY-1W - CME) vs BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME)</b>						
Spread Credit Rate	Increase	+2:-15	70%	70%	80%	80%
<b>1% FUEL OIL (PLATTS) CARGOES CIF MED SWAP FUTURES (NY-1W - CME) vs BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME)</b>						
Spread Credit Rate	Increase	+2:-15	70%	70%	80%	80%
<b>1% FUEL OIL (PLATTS) CARGOES CIF MED SWAP FUTURES (NY-1W - CME) vs BRENT CRUDE OIL PENULTIMATE FINANCIAL FUTURES (NY-BB - CME)</b>						
Spread Credit Rate	Increase	+2:-15	70%	70%	80%	80%
<b>1% FUEL OIL (PLATTS) CARGOES CIF MED SWAP FUTURES (NY-1W - CME) vs DUBAI CRUDE OIL (PLATTS) CALENDAR SWAP FUTURES (NY-DC - CME)</b>						
Spread Credit Rate	Increase	+3:-19	70%	70%	80%	80%
<b>ARGUS PROPANE (SAUDI ARAMCO) SWAP FUTURES (NY-9N - CME) vs BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME)</b>						
Spread Credit Rate	Increase	+2:-15	30%	30%	55%	55%
<b>ARGUS PROPANE (SAUDI ARAMCO) SWAP FUTURES (NY-9N - CME) vs BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME)</b>						
Spread Credit Rate	Increase	+2:-15	30%	30%	55%	55%
<b>ARGUS PROPANE (SAUDI ARAMCO) SWAP FUTURES (NY-9N - CME) vs BRENT CRUDE OIL PENULTIMATE FINANCIAL FUTURES (NY-BB - CME)</b>						
Spread Credit Rate	Increase	+2:-15	30%	30%	55%	55%
<b>ARGUS PROPANE (SAUDI ARAMCO) SWAP FUTURES (NY-9N - CME) vs DATED BRENT (PLATTS) CALENDAR SWAP FUTURES (NY-UB - CME)</b>						
Spread Credit Rate	Increase	+1:-12	30%	30%	45%	45%
<b>ARGUS PROPANE (SAUDI ARAMCO) SWAP FUTURES (NY-9N - CME) vs DME OMAN CRUDE OIL SWAP FUTURES (NY-DOO - CME)</b>						
Spread Credit Rate	Increase	+2:-15	30%	30%	55%	55%
<b>ARGUS PROPANE (SAUDI ARAMCO) SWAP FUTURES (NY-9N - CME) vs OMAN CRUDE OIL (NY-OQ - CME)</b>						
Spread Credit Rate	Increase	+2:-15	30%	30%	55%	55%
<b>ARGUS PROPANE FAR EAST INDEX SWAP FUTURES (NY-7E - CME) vs BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME)</b>						
Spread Credit Rate	Increase	+2:-15	45%	45%	55%	55%
<b>ARGUS PROPANE FAR EAST INDEX SWAP FUTURES (NY-7E - CME) vs BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME)</b>						
Spread Credit Rate	Increase	+2:-15	45%	45%	55%	55%
<b>ARGUS PROPANE FAR EAST INDEX SWAP FUTURES (NY-7E - CME) vs BRENT CRUDE OIL PENULTIMATE FINANCIAL FUTURES (NY-BB - CME)</b>						
Spread Credit Rate	Increase	+2:-15	45%	45%	55%	55%

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Inter-commodity Spread Rates</b>						
<b>ARGUS PROPANE FAR EAST INDEX SWAP FUTURES (NY-7E - CME) vs DATED BRENT (PLATTS) CALENDAR SWAP FUTURES (NY-UB - CME)</b>						
Spread Credit Rate	Increase	+1:-12	45%	45%	55%	55%
<b>ARGUS PROPANE FAR EAST INDEX SWAP FUTURES (NY-7E - CME) vs DME OMAN CRUDE OIL SWAP FUTURES (NY-DOO - CME)</b>						
Spread Credit Rate	Increase	+2:-15	45%	45%	55%	55%
<b>ARGUS PROPANE FAR EAST INDEX SWAP FUTURES (NY-7E - CME) vs OMAN CRUDE OIL (NY-OQ - CME)</b>						
Spread Credit Rate	Increase	+2:-15	45%	45%	55%	55%
<b>BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME) vs 1% FUEL OIL (PLATTS) CARGOES CIF NWE SWAP FUTURES (NY-1X - CME)</b>						
Spread Credit Rate	Increase	+19:-3	60%	60%	80%	80%
<b>BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME) vs 1% FUEL OIL (PLATTS) CARGOES CIF NWE SWAP FUTURES (NY-1X - CME).</b>						
Spread Credit Rate	Increase	+19:-3	60%	60%	80%	80%
<b>BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME) vs CHICAGO ULSD (PLATTS) SWAP FUTURES (NY-4C - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	80%	80%	70%	70%
<b>BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME) vs COAL (API 2) CIF ARA (ARGUS/MCCLOSKEY) SWAP FUTURES (NY-MTF - CME)</b>						
Spread Credit Rate	Increase	+1:-1	0%	0%	30%	30%
<b>BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME) vs COAL (API 2) CIF ARA (ARGUS/MCCLOSKEY) SWAP FUTURES (NY-MTF - CME).</b>						
Spread Credit Rate	Decrease	+1:-1	35%	35%	30%	30%
<b>BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME) vs COAL (API 4) FOB RICHARDS BAY (ARGUS/MCCLOSKEY) SWAP FUTURES (NY-MFF - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	30%	30%	20%	20%
<b>BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME) vs CRUDE OIL FINANCIAL FUTURES (NY-WS - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	80%	80%	76%	76%
<b>BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME) vs EUROPEAN 1% FUEL OIL (PLATTS) BARGES FOB RDAM CALENDAR SWAP FUTURES (NY-UH - CME)</b>						
Spread Credit Rate	Increase	+33:-5	75%	75%	85%	85%
<b>BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME) vs EUROPEAN 1% FUEL OIL (PLATTS) BARGES FOB RDAM CALENDAR SWAP FUTURES (NY-UH - CME).</b>						
Spread Credit Rate	Increase	+33:-5	75%	75%	85%	85%
<b>BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME) vs EUROPEAN 1% FUEL OIL (PLATTS) CARGOES FOB NWE CALENDAR SWAP FUTURES (NY-UF - CME)</b>						
Spread Credit Rate	Increase	+33:-5	75%	75%	85%	85%
<b>BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME) vs EUROPEAN 1% FUEL OIL (PLATTS) CARGOES FOB NWE CALENDAR SWAP FUTURES (NY-UF - CME).</b>						
Spread Credit Rate	Increase	+33:-5	75%	75%	85%	85%

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Inter-commodity Spread Rates</b>						
<b>BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME) vs EUROPEAN GASOIL (ICE) SWAP FUTURES (NY-GX - CME)</b>						
Spread Credit Rate	Decrease	+15:-2	60%	60%	50%	50%
<b>BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME) vs EUROPEAN GASOIL (ICE) SWAP FUTURES (NY-GX - CME).</b>						
Spread Credit Rate	Decrease	+15:-2	60%	60%	50%	50%
<b>BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME) vs EUROPEAN GASOIL BULLET SWAP FUTURES (NY-BG - CME)</b>						
Spread Credit Rate	Decrease	+15:-2	60%	60%	50%	50%
<b>BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME) vs EUROPEAN NAPHTHA (PLATTS) CALENDAR SWAP FUTURES (NY-UN - CME)</b>						
Spread Credit Rate	Increase	+9:-1	65%	65%	80%	80%
<b>BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME) vs EUROPEAN NAPHTHA (PLATTS) CALENDAR SWAP FUTURES (NY-UN - CME).</b>						
Spread Credit Rate	Increase	+9:-1	65%	65%	80%	80%
<b>BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME) vs GULF COAST JET FUEL (PLATTS) CALENDAR SWAP FUTURES (NY-GE - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	70%	70%	60%	60%
<b>BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME) vs GULF COAST ULSD (PLATTS) SWAP FUTURES (NY-LY - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	80%	80%	60%	60%
<b>BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME) vs LIGHT SWEET CRUDE OIL FUTURES (NY-CL - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	80%	80%	76%	76%
<b>BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME) vs LOS ANGELES CARB DIESEL (OPIS) OUTRIGHT SWAP FUTURES (NY-LX - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	75%	75%	65%	65%
<b>BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME) vs NEW YORK HARBOR RESIDUAL FUEL 1.0% (PLATTS) SWAP FUTURES (NY-MM - CME)</b>						
Spread Credit Rate	Increase	+1:-1	60%	60%	80%	80%
<b>BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME) vs PROPANE NON-LDH MONT BELVIEU (OPIS) SWAP FUTURES (NY-1R - CME)</b>						
Spread Credit Rate	Increase	+1:-1	30%	30%	55%	55%
<b>BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME) vs SINGAPORE FUEL OIL 380 CST (PLATTS) SWAP FUTURES (NY-SE - CME)</b>						
Spread Credit Rate	Increase	+19:-3	75%	75%	85%	85%
<b>BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME) vs SINGAPORE FUEL OIL 380 CST (PLATTS) SWAP FUTURES (NY-SE - CME).</b>						
Spread Credit Rate	Increase	+19:-3	75%	75%	85%	85%

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Inter-commodity Spread Rates</b>						
<b>BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME) vs SINGAPORE GASOIL (PLATTS) SWAP FUTURES (NY-SG - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	60%	60%	50%	50%
<b>BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME) vs SINGAPORE GASOIL (PLATTS) SWAP FUTURES (NY-SG - CME).</b>						
Spread Credit Rate	Decrease	+1:-1	60%	60%	50%	50%
<b>BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME) vs SINGAPORE NAPHTHA (PLATTS) SWAP FUTURES (NY-SP - CME)</b>						
Spread Credit Rate	Increase	+1:-1	65%	65%	80%	80%
<b>BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME) vs SINGAPORE NAPHTHA (PLATTS) SWAP FUTURES (NY-SP - CME).</b>						
Spread Credit Rate	Increase	+1:-1	65%	65%	80%	80%
<b>BRENT CRUDE OIL BULLET SWAP FINANCIAL (NYM-BB, BZ, CY) vs EUROPEAN 1% FUEL OIL NORTHWEST EUROPE (NWE) CALENDAR SWAP (PLATTS) (NYM-UF - CME)</b>						
Spread Credit Rate	Increase	+33:-5	75%	75%	85%	85%
<b>BRENT CRUDE OIL BULLET SWAP FINANCIAL (NYM-BB, BZ, CY) vs EUROPEAN GASOIL (ICE) CALENDAR SWAP (NYM-GX - CME)</b>						
Spread Credit Rate	Decrease	+15:-2	60%	60%	50%	50%
<b>BRENT CRUDE OIL BULLET SWAP FINANCIAL (NYM-BB, BZ, CY) vs EUROPEAN NAPHTHA CALENDAR SWAP (NYM-UN - CME)</b>						
Spread Credit Rate	Increase	+9:-1	65%	65%	80%	80%
<b>BRENT CRUDE OIL BULLET SWAP FINANCIAL (NYM-BB, BZ, CY) vs SINGAPORE 380CST FUEL OIL (PLATTS) SWAP (NYM-SE - CME)</b>						
Spread Credit Rate	Increase	+19:-3	75%	75%	85%	85%
<b>BRENT CRUDE OIL BULLET SWAP FINANCIAL (NYM-BB, BZ, CY) vs SINGAPORE GASOIL SWAP (NYM-SG - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	60%	60%	50%	50%
<b>BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME) vs 1% FUEL OIL (PLATTS) CARGOES CIF NWE SWAP FUTURES (NY-1X - CME)</b>						
Spread Credit Rate	Increase	+19:-3	60%	60%	80%	80%
<b>BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME) vs CHICAGO ULSD (PLATTS) SWAP FUTURES (NY-4C - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	80%	80%	70%	70%
<b>BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME) vs COAL (API 2) CIF ARA (ARGUS/MCCLOSKEY) SWAP FUTURES (NY-MTF - CME)</b>						
Spread Credit Rate	Increase	+1:-1	0%	0%	30%	30%
<b>BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME) vs COAL (API 4) FOB RICHARDS BAY (ARGUS/MCCLOSKEY) SWAP FUTURES (NY-MFF - CME)</b>						
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
<b>Inter-commodity Spread Rates</b>						
<b>BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME) vs EUROPEAN 1% FUEL OIL (PLATTS) BARGES FOB RDAM CALENDAR SWAP FUTURES (NY-UH - CME)</b>						
Spread Credit Rate	Increase	+33:-5	75%	75%	85%	85%
<b>BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME) vs EUROPEAN 1% FUEL OIL (PLATTS) CARGOES FOB NWE CALENDAR SWAP FUTURES (NY-UF - CME)</b>						
Spread Credit Rate	Increase	+33:-5	75%	75%	85%	85%
<b>BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME) vs EUROPEAN GASOIL (ICE) SWAP FUTURES (NY-GX - CME)</b>						
Spread Credit Rate	Decrease	+15:-2	60%	60%	50%	50%
<b>BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME) vs EUROPEAN GASOIL BULLET SWAP FUTURES (NY-BG - CME)</b>						
Spread Credit Rate	Decrease	+15:-2	60%	60%	50%	50%
<b>BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME) vs EUROPEAN NAPHTHA (PLATTS) CALENDAR SWAP FUTURES (NY-UN - CME)</b>						
Spread Credit Rate	Increase	+9:-1	65%	65%	80%	80%
<b>BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME) vs EUROPEAN PROPANE CIF ARA (ARGUS) SWAP FUTURES (NY-PS - CME)</b>						
Spread Credit Rate	Increase	+15:-2	50%	50%	70%	70%
<b>BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME) vs GULF COAST JET FUEL (PLATTS) CALENDAR SWAP FUTURES (NY-GE - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	70%	70%	60%	60%
<b>BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME) vs GULF COAST ULSD (PLATTS) SWAP FUTURES (NY-LY - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	80%	80%	60%	60%
<b>BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME) vs LIGHT SWEET CRUDE OIL FUTURES (NY-CL - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	80%	80%	76%	76%
<b>BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME) vs LOS ANGELES CARB DIESEL (OPIS) OUTRIGHT SWAP FUTURES (NY-LX - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	75%	75%	65%	65%
<b>BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME) vs NEW YORK HARBOR NO. 2 HEATING OIL FUTURES (NY-HO - CME)</b>						
Spread Credit Rate	Increase	+1:-1	55%	55%	70%	70%
<b>BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME) vs NEW YORK HARBOR RESIDUAL FUEL 1.0% (PLATTS) SWAP FUTURES (NY-MM - CME)</b>						
Spread Credit Rate	Increase	+1:-1	60%	60%	80%	80%
<b>BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME) vs NY 2.2% FUEL OIL (PLATTS) SWAP FUTURES (NY-Y3 - CME)</b>						
Spread Credit Rate	Increase	+1:-1	60%	60%	80%	80%

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Inter-commodity Spread Rates</b>						
<b>BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME) vs NY 3.0% FUEL OIL (PLATTS) SWAP FUTURES (NY-H1 - CME)</b>						
Spread Credit Rate	Increase	+1:-1	70%	70%	80%	80%
<b>BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME) vs PROPANE NON-LDH MONT BELVIEU (OPIS) SWAP FUTURES (NY-1R - CME)</b>						
Spread Credit Rate	Increase	+1:-1	30%	30%	55%	55%
<b>BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME) vs RBOB GASOLINE FUTURES (NY-RB - CME)</b>						
Spread Credit Rate	Increase	+1:-1	62%	62%	70%	70%
<b>BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME) vs SINGAPORE FUEL OIL 380 CST (PLATTS) SWAP FUTURES (NY-SE - CME)</b>						
Spread Credit Rate	Increase	+19:-3	75%	75%	85%	85%
<b>BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME) vs SINGAPORE GASOIL (PLATTS) SWAP FUTURES (NY-SG - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	60%	60%	50%	50%
<b>BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME) vs SINGAPORE NAPHTHA (PLATTS) SWAP FUTURES (NY-SP - CME)</b>						
Spread Credit Rate	Increase	+1:-1	65%	65%	80%	80%
<b>BRENT CRUDE OIL PENULTIMATE FINANCIAL FUTURES (NY-BB - CME) vs CHICAGO ULSD (PLATTS) SWAP FUTURES (NY-4C - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	80%	80%	70%	70%
<b>BRENT CRUDE OIL PENULTIMATE FINANCIAL FUTURES (NY-BB - CME) vs COAL (API 2) CIF ARA (ARGUS/MCCLOSKEY) SWAP FUTURES (NY-MTF - CME)</b>						
Spread Credit Rate	Increase	+1:-1	0%	0%	30%	30%
<b>BRENT CRUDE OIL PENULTIMATE FINANCIAL FUTURES (NY-BB - CME) vs COAL (API 4) FOB RICHARDS BAY (ARGUS/MCCLOSKEY) SWAP FUTURES (NY-MFF - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	30%	30%	20%	20%
<b>BRENT CRUDE OIL PENULTIMATE FINANCIAL FUTURES (NY-BB - CME) vs EUROPEAN 1% FUEL OIL (PLATTS) BARGES FOB RDAM CALENDAR SWAP FUTURES (NY-UH - CME)</b>						
Spread Credit Rate	Increase	+33:-5	75%	75%	85%	85%
<b>BRENT CRUDE OIL PENULTIMATE FINANCIAL FUTURES (NY-BB - CME) vs EUROPEAN GASOIL BULLET SWAP FUTURES (NY-BG - CME)</b>						
Spread Credit Rate	Decrease	+15:-2	60%	60%	50%	50%
<b>BRENT CRUDE OIL PENULTIMATE FINANCIAL FUTURES (NY-BB - CME) vs GULF COAST JET FUEL (PLATTS) CALENDAR SWAP FUTURES (NY-GE - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	70%	70%	60%	60%
<b>BRENT CRUDE OIL PENULTIMATE FINANCIAL FUTURES (NY-BB - CME) vs GULF COAST ULSD (PLATTS) SWAP FUTURES (NY-LY - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	80%	80%	60%	60%

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Inter-commodity Spread Rates</b>						
<b>BRENT CRUDE OIL PENULTIMATE FINANCIAL FUTURES (NY-BB - CME) vs LIGHT SWEET CRUDE OIL FUTURES (NY-CL - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	80%	80%	76%	76%
<b>BRENT CRUDE OIL PENULTIMATE FINANCIAL FUTURES (NY-BB - CME) vs LOS ANGELES CARB DIESEL (OPIS) OUTRIGHT SWAP FUTURES (NY-LX - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	75%	75%	65%	65%
<b>BRENT CRUDE OIL PENULTIMATE FINANCIAL FUTURES (NY-BB - CME) vs NEW YORK HARBOR RESIDUAL FUEL 1.0% (PLATTS) SWAP FUTURES (NY-MM - CME)</b>						
Spread Credit Rate	Increase	+1:-1	60%	60%	80%	80%
<b>BRENT CRUDE OIL PENULTIMATE FINANCIAL FUTURES (NY-BB - CME) vs NY 3.0% FUEL OIL (PLATTS) SWAP FUTURES (NY-H1 - CME)</b>						
Spread Credit Rate	Increase	+1:-1	70%	70%	80%	80%
<b>BRENT CRUDE OIL PENULTIMATE FINANCIAL FUTURES (NY-BB - CME) vs PROPANE NON-LDH MONT BELVIEU (OPIS) SWAP FUTURES (NY-1R - CME)</b>						
Spread Credit Rate	Increase	+1:-1	40%	40%	55%	55%
<b>BRENT CRUDE OIL PENULTIMATE FINANCIAL FUTURES (NY-BB - CME) vs RBOB GASOLINE FUTURES (NY-RB - CME)</b>						
Spread Credit Rate	Increase	+1:-1	62%	62%	70%	70%
<b>BRENT CRUDE OIL PENULTIMATE FINANCIAL FUTURES (NY-BB - CME) vs SINGAPORE NAPHTHA (PLATTS) SWAP FUTURES (NY-SP - CME)</b>						
Spread Credit Rate	Increase	+1:-1	65%	65%	80%	80%
<b>BRENT CRUDE OIL PENULTIMATE FINANCIAL FUTURES (NY-BB, BZ, CY) vs 1% FUEL OIL (PLATTS) CARGOES CIF NWE SWAP FUTURES (NY-1X - CME)</b>						
Spread Credit Rate	Increase	+19:-3	60%	60%	80%	80%
<b>BRENT CRUDE OIL PENULTIMATE FINANCIAL FUTURES (NY-BB, BZ, CY) vs EUROPEAN 1% FUEL OIL (PLATTS) CARGOES FOB NWE CALENDAR SWAP FUTURES (NY-UF - CME)</b>						
Spread Credit Rate	Increase	+33:-5	75%	75%	85%	85%
<b>COAL (API 2) CIF ARA (ARGUS/MCCLOSKEY) SWAP FUTURES (NY-MTF - CME) vs DATED BRENT (PLATTS) CALENDAR SWAP FUTURES (NY-UB - CME)</b>						
Spread Credit Rate	Increase	+1:-1	0%	0%	30%	30%
<b>COAL (API 2) CIF ARA (ARGUS/MCCLOSKEY) SWAP FUTURES (NY-MTF - CME) vs LIGHT SWEET CRUDE OIL FUTURES (NY-CL - CME)</b>						
Spread Credit Rate	Increase	+1:-1	0%	0%	25%	25%
<b>COAL (API 2) CIF ARA (ARGUS/MCCLOSKEY) SWAP FUTURES (NY-MTF - CME) vs WTI CALENDAR SWAP FUTURES (NY-CS - CME)</b>						
Spread Credit Rate	Increase	+1:-1	0%	0%	25%	25%
<b>COAL (API 4) FOB RICHARDS BAY (ARGUS/MCCLOSKEY) SWAP FUTURES (NY-MFF - CME) vs CRUDE OIL FINANCIAL FUTURES (NY-WS - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	30%	30%	10%	10%

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Inter-commodity Spread Rates</b>						
<b>COAL (API 4) FOB RICHARDS BAY (ARGUS/MCCLOSKEY) SWAP FUTURES (NY-MFF - CME) vs CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-26 - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	30%	30%	10%	10%
<b>COAL (API 4) FOB RICHARDS BAY (ARGUS/MCCLOSKEY) SWAP FUTURES (NY-MFF - CME) vs DATED BRENT (PLATTS) CALENDAR SWAP FUTURES (NY-UB - CME)</b>						
Spread Credit Rate	Increase	+1:-1	0%	0%	20%	20%
<b>COAL (API 4) FOB RICHARDS BAY (ARGUS/MCCLOSKEY) SWAP FUTURES (NY-MFF - CME) vs LIGHT SWEET CRUDE OIL FUTURES (NY-CL - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	30%	30%	10%	10%
<b>COAL (API 4) FOB RICHARDS BAY (ARGUS/MCCLOSKEY) SWAP FUTURES (NY-MFF - CME) vs WTI CALENDAR SWAP FUTURES (NY-CS - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	30%	30%	10%	10%
<b>COAL (API 4) FOB RICHARDS BAY (ARGUS/MCCLOSKEY) SWAP FUTURES (NY-MFF - CME) vs WTI CALENDAR SWAP FUTURES (NY-CS - CME).</b>						
Spread Credit Rate	Decrease	+1:-1	30%	30%	10%	10%
<b>CRUDE OIL FINANCIAL FUTURES (NY-WS - CME) vs ARGUS PROPANE (SAUDI ARAMCO) SWAP FUTURES (NY-9N - CME)</b>						
Spread Credit Rate	Increase	+12:-1	30%	30%	45%	45%
<b>CRUDE OIL FINANCIAL FUTURES (NY-WS - CME) vs BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	80%	80%	76%	76%
<b>CRUDE OIL FINANCIAL FUTURES (NY-WS - CME) vs BRENT CRUDE OIL PENULTIMATE FINANCIAL FUTURES (NY-BB - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	80%	80%	76%	76%
<b>CRUDE OIL FINANCIAL FUTURES (NY-WS - CME) vs CONWAY PROPANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-8K - CME)</b>						
Spread Credit Rate	Decrease	+1:-2	50%	50%	30%	30%
<b>CRUDE OIL FINANCIAL FUTURES (NY-WS - CME) vs DME OMAN CRUDE OIL SWAP FUTURES (NY-DOO - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	85%	85%	80%	80%
<b>CRUDE OIL FINANCIAL FUTURES (NY-WS - CME) vs EIA FLAT TAX ON-HIGHWAY DIESEL SWAP FUTURES (NY-A5 - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	65%	65%	55%	55%
<b>CRUDE OIL FINANCIAL FUTURES (NY-WS - CME) vs EUROPEAN GASOIL (ICE) SWAP FUTURES (NY-GX - CME)</b>						
Spread Credit Rate	Decrease	+15:-2	60%	60%	45%	45%
<b>CRUDE OIL FINANCIAL FUTURES (NY-WS - CME) vs EUROPEAN GASOIL BULLET SWAP FUTURES (NY-BG - CME)</b>						
Spread Credit Rate	Decrease	+15:-2	70%	70%	45%	45%
<b>CRUDE OIL FINANCIAL FUTURES (NY-WS - CME) vs LOS ANGELES CARB DIESEL (OPIS) OUTRIGHT SWAP FUTURES (NY-LX - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	65%	65%	55%	55%



## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Inter-commodity Spread Rates</b>						
<b>CRUDE OIL FINANCIAL FUTURES (NY-WS - CME) vs NY 3.0% FUEL OIL (PLATTS) SWAP FUTURES (NY-H1 - CME)</b>						
Spread Credit Rate	Increase	+1:-1	65%	65%	75%	75%
<b>CRUDE OIL FINANCIAL FUTURES (NY-WS - CME) vs OMAN CRUDE OIL (NY-OQ - CME)</b>						
Spread Credit Rate	Increase	+1:-1	70%	70%	80%	80%
<b>CRUDE OIL FINANCIAL FUTURES (NY-WS - CME) vs RBOB GASOLINE FINANCIAL FUTURES (NY-RT - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	80%	80%	77%	77%
<b>CRUDE OIL FINANCIAL FUTURES (NY-WS - CME) vs RBOB GASOLINE FUTURES (NY-RB - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	80%	80%	77%	77%
<b>CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-26 - CME) vs ARGUS PROPANE (SAUDI ARAMCO) SWAP FUTURES (NY-9N - CME)</b>						
Spread Credit Rate	Increase	+12:-1	30%	30%	45%	45%
<b>CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-26 - CME) vs BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	80%	80%	76%	76%
<b>CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-26 - CME) vs BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	80%	80%	76%	76%
<b>CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-26 - CME) vs BRENT CRUDE OIL PENULTIMATE FINANCIAL FUTURES (NY-BB - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	80%	80%	76%	76%
<b>CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-26 - CME) vs CONWAY PROPANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-8K - CME)</b>						
Spread Credit Rate	Decrease	+1:-2	50%	50%	30%	30%
<b>CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-26 - CME) vs DME OMAN CRUDE OIL SWAP FUTURES (NY-DOO - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	85%	85%	80%	80%
<b>CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-26 - CME) vs EIA FLAT TAX ON-HIGHWAY DIESEL SWAP FUTURES (NY-A5 - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	65%	65%	55%	55%
<b>CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-26 - CME) vs EUROPEAN GASOIL (ICE) SWAP FUTURES (NY-GX - CME)</b>						
Spread Credit Rate	Decrease	+15:-2	60%	60%	45%	45%
<b>CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-26 - CME) vs EUROPEAN GASOIL BULLET SWAP FUTURES (NY-BG - CME)</b>						
Spread Credit Rate	Decrease	+15:-2	70%	70%	45%	45%
<b>CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-26 - CME) vs LOS ANGELES CARB DIESEL (OPIS) OUTRIGHT SWAP FUTURES (NY-LX - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	65%	65%	55%	55%

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Inter-commodity Spread Rates</b>						
<b>CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-26 - CME) vs NY 3.0% FUEL OIL (PLATTS) SWAP FUTURES (NY-H1 - CME)</b>						
Spread Credit Rate	Increase	+1:-1	65%	65%	75%	75%
<b>CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-26 - CME) vs OMAN CRUDE OIL (NY-OQ - CME)</b>						
Spread Credit Rate	Increase	+1:-1	70%	70%	80%	80%
<b>DATED BRENT (PLATTS) CALENDAR SWAP FUTURES (NY-UB - CME) vs LOS ANGELES CARB DIESEL (OPIS) OUTRIGHT SWAP FUTURES (NY-LX - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	75%	75%	65%	65%
<b>DATED BRENT (PLATTS) CALENDAR SWAP FUTURES (NY-UB - CME) vs OMAN CRUDE OIL (NY-OQ - CME)</b>						
Spread Credit Rate	Increase	+1:-1	75%	75%	85%	85%
<b>DATED BRENT (PLATTS) CALENDAR SWAP FUTURES (NY-UB - CME) vs WTI CALENDAR SWAP FUTURES (NY-CS - CME)</b>						
Spread Credit Rate	Increase	+1:-1	70%	70%	80%	80%
<b>DATED BRENT (PLATTS) CALENDAR SWAP FUTURES (NY-UB - CME) vs WTI CALENDAR SWAP FUTURES (NY-CS - CME).</b>						
Spread Credit Rate	Increase	+1:-1	70%	70%	80%	80%
<b>DATED BRENT CRUDE OIL CALENDAR SWAP (NYM-UB - CME) vs LIGHT, SWEET CRUDE OIL FUTURES (NYM-CL, CS, WS)</b>						
Spread Credit Rate	Increase	+1:-1	70%	70%	80%	80%
<b>DME OMAN CRUDE OIL BALMO SWAP FUTURES (NY-DOB - CME) vs OMAN CRUDE OIL (NY-OQ - CME)</b>						
Spread Credit Rate	Increase	+1:-1	60%	60%	75%	75%
<b>DME OMAN CRUDE OIL SWAP FUTURES (NY-DOO - CME) vs MONT BELVIEU NORMAL BUTANE LDH (OPIS) SWAP FUTURES (NY-MNB - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	45%	45%	35%	35%
<b>DUBAI CRUDE OIL (PLATTS) CALENDAR SWAP FUTURES (NY-DC - CME) vs EUROPEAN GASOIL (ICE) SWAP FUTURES (NY-GX - CME)</b>						
Spread Credit Rate	Decrease	+15:-2	65%	65%	50%	50%
<b>DUBAI CRUDE OIL (PLATTS) CALENDAR SWAP FUTURES (NY-DC - CME) vs EUROPEAN GASOIL BULLET SWAP FUTURES (NY-BG - CME)</b>						
Spread Credit Rate	Decrease	+15:-2	65%	65%	50%	50%
<b>DUBAI CRUDE OIL (PLATTS) CALENDAR SWAP FUTURES (NY-DC - CME) vs GULF COAST NO. 6 FUEL OIL 3.0% (PLATTS) SWAP FUTURES (NY-MF - CME)</b>						
Spread Credit Rate	Increase	+1:-1	65%	65%	80%	80%
<b>DUBAI CRUDE OIL (PLATTS) CALENDAR SWAP FUTURES (NY-DC - CME) vs LOS ANGELES CARB DIESEL (OPIS) OUTRIGHT SWAP FUTURES (NY-LX - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	75%	75%	50%	50%
<b>DUBAI CRUDE OIL (PLATTS) CALENDAR SWAP FUTURES (NY-DC - CME) vs NY 2.2% FUEL OIL (PLATTS) SWAP FUTURES (NY-Y3 - CME)</b>						
Spread Credit Rate	Increase	+1:-1	60%	60%	80%	80%

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Inter-commodity Spread Rates</b>						
<b>DUBAI CRUDE OIL (PLATTS) CALENDAR SWAP FUTURES (NY-DC - CME) vs NY 3.0% FUEL OIL (PLATTS) SWAP FUTURES (NY-H1 - CME)</b>						
Spread Credit Rate	Increase	+1:-1	70%	70%	80%	80%
<b>DUBAI CRUDE OIL CALENDAR SWAP (NYM-DC - CME) vs EUROPEAN GASOIL (ICE) CALENDAR SWAP (NYM-GX - CME)</b>						
Spread Credit Rate	Decrease	+15:-2	65%	65%	50%	50%
<b>EIA FLAT TAX ON-HIGHWAY DIESEL SWAP FUTURES (NY-A5 - CME) vs DUBAI CRUDE OIL (PLATTS) CALENDAR SWAP FUTURES (NY-DC - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	55%	55%	30%	30%
<b>EUROPE DATED BRENT SWAP (NY-UB) vs. MONT BELVIEU LDH PROPANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-B0)</b>						
Spread Credit Rate	Increase	+1:-1	40%	40%	55%	55%
Spread Credit Rate	Increase	+1:-1	40%	40%	55%	55%
<b>EUROPE DATED BRENT SWAP (NY-UB) vs. MT BELVIEU NAT GAS 5 D. OPIS (NY-7Q)</b>						
Spread Credit Rate	Decrease	+1:-1	50%	50%	30%	30%
Spread Credit Rate	Decrease	+1:-1	50%	50%	30%	30%
<b>EUROPEAN 1% FUEL OIL (PLATTS) BARGES FOB RDAM CALENDAR SWAP FUTURES (NY-UH - CME) vs DATED BRENT (PLATTS) CALENDAR SWAP FUTURES (NY-UB - CME)</b>						
Spread Credit Rate	Increase	+3:-19	65%	65%	75%	75%
<b>EUROPEAN 1% FUEL OIL (PLATTS) BARGES FOB RDAM CALENDAR SWAP FUTURES (NY-UH - CME) vs DUBAI CRUDE OIL (PLATTS) CALENDAR SWAP FUTURES (NY-DC - CME)</b>						
Spread Credit Rate	Increase	+3:-19	75%	75%	85%	85%
<b>EUROPEAN 1% FUEL OIL (PLATTS) BARGES FOB RDAM CALENDAR SWAP FUTURES (NY-UH - CME) vs LIGHT SWEET CRUDE OIL FUTURES (NY-CL - CME)</b>						
Spread Credit Rate	Increase	+5:-33	60%	60%	75%	75%
<b>EUROPEAN 1% FUEL OIL (PLATTS) BARGES FOB RDAM CALENDAR SWAP FUTURES (NY-UH - CME) vs OMAN CRUDE OIL (NY-OQ - CME)</b>						
Spread Credit Rate	Increase	+2:-15	65%	65%	80%	80%
<b>EUROPEAN 1% FUEL OIL (PLATTS) BARGES FOB RDAM CALENDAR SWAP FUTURES (NY-UH - CME) vs WTI CALENDAR SWAP FUTURES (NY-CS - CME)</b>						
Spread Credit Rate	Increase	+5:-33	60%	60%	75%	75%
<b>EUROPEAN 1% FUEL OIL (PLATTS) BARGES FOB RDAM CALENDAR SWAP FUTURES (NY-UH - CME) vs WTI CALENDAR SWAP FUTURES (NY-CS - CME).</b>						
Spread Credit Rate	Increase	+5:-33	60%	60%	75%	75%
<b>EUROPEAN 1% FUEL OIL (PLATTS) CARGOES FOB NWE CALENDAR SWAP FUTURES (NY-UF - CME) vs DME OMAN CRUDE OIL SWAP FUTURES (NY-DOO - CME)</b>						
Spread Credit Rate	Increase	+2:-15	55%	55%	80%	80%
<b>EUROPEAN 1% FUEL OIL (PLATTS) CARGOES FOB NWE CALENDAR SWAP FUTURES (NY-UF - CME) vs OMAN CRUDE OIL (NY-OQ - CME)</b>						
Spread Credit Rate	Increase	+2:-15	70%	70%	80%	80%

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Inter-commodity Spread Rates</b>						
<b>EUROPEAN GASOIL (ICE) CALENDAR SWAP (NYM-GX - CME) vs LIGHT, SWEET CRUDE OIL FUTURES (NYM-CL, CS, WS)</b>						
Spread Credit Rate	Decrease	+2:-15	60%	60%	45%	45%
<b>EUROPEAN GASOIL (ICE) SWAP FUTURES (NY-GX - CME) vs DATED BRENT (PLATTS) CALENDAR SWAP FUTURES (NY-UB - CME)</b>						
Spread Credit Rate	Decrease	+2:-15	65%	65%	50%	50%
<b>EUROPEAN GASOIL (ICE) SWAP FUTURES (NY-GX - CME) vs WTI CALENDAR SWAP FUTURES (NY-CS - CME)</b>						
Spread Credit Rate	Decrease	+2:-15	60%	60%	45%	45%
<b>EUROPEAN GASOIL (ICE) SWAP FUTURES (NY-GX - CME) vs WTI CALENDAR SWAP FUTURES (NY-CS - CME).</b>						
Spread Credit Rate	Decrease	+2:-15	60%	60%	45%	45%
<b>EUROPEAN GASOIL BULLET SWAP FUTURES (NY-BG - CME) vs DATED BRENT (PLATTS) CALENDAR SWAP FUTURES (NY-UB - CME)</b>						
Spread Credit Rate	Decrease	+2:-15	65%	65%	50%	50%
<b>EUROPEAN GASOIL BULLET SWAP FUTURES (NY-BG - CME) vs LIGHT SWEET CRUDE OIL FUTURES (NY-CL - CME)</b>						
Spread Credit Rate	Decrease	+2:-15	60%	60%	45%	45%
<b>EUROPEAN GASOIL BULLET SWAP FUTURES (NY-BG - CME) vs WTI CALENDAR SWAP FUTURES (NY-CS - CME)</b>						
Spread Credit Rate	Decrease	+2:-15	70%	70%	45%	45%
<b>EUROPEAN PROPANE CIF ARA (ARGUS) SWAP FUTURES (NY-PS - CME) vs BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME)</b>						
Spread Credit Rate	Increase	+2:-15	50%	50%	70%	70%
<b>EUROPEAN PROPANE CIF ARA (ARGUS) SWAP FUTURES (NY-PS - CME) vs BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME)</b>						
Spread Credit Rate	Increase	+2:-15	50%	50%	70%	70%
<b>EUROPEAN PROPANE CIF ARA (ARGUS) SWAP FUTURES (NY-PS - CME) vs BRENT CRUDE OIL PENULTIMATE FINANCIAL FUTURES (NY-BB - CME)</b>						
Spread Credit Rate	Increase	+2:-15	50%	50%	70%	70%
<b>EUROPEAN PROPANE CIF ARA (ARGUS) SWAP FUTURES (NY-PS - CME) vs DATED BRENT (PLATTS) CALENDAR SWAP FUTURES (NY-UB - CME)</b>						
Spread Credit Rate	Increase	+1:-12	50%	50%	65%	65%
<b>EUROPEAN PROPANE CIF ARA (ARGUS) SWAP FUTURES (NY-PS - CME) vs DME OMAN CRUDE OIL SWAP FUTURES (NY-DOO - CME)</b>						
Spread Credit Rate	Increase	+2:-15	50%	50%	70%	70%
<b>EUROPEAN PROPANE CIF ARA (ARGUS) SWAP FUTURES (NY-PS - CME) vs OMAN CRUDE OIL (NY-OQ - CME)</b>						
Spread Credit Rate	Increase	+2:-15	50%	50%	70%	70%
<b>GASOLINE EURO-BOB OXY (ARGUS) NWE BARGES SWAP FUTURES (NY-7H - CME) vs DME OMAN CRUDE OIL SWAP FUTURES (NY-DOO - CME)</b>						
Spread Credit Rate	Increase	+2:-15	70%	70%	80%	80%

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Inter-commodity Spread Rates</b>						
<b>GASOLINE EURO-BOB OXY (ARGUS) NWE BARGES SWAP FUTURES (NY-7H - CME) vs OMAN CRUDE OIL (NY-OQ - CME)</b>						
Spread Credit Rate	Increase	+2:-15	70%	70%	80%	80%
<b>GULF COAST JET FUEL (PLATTS) CALENDAR SWAP FUTURES (NY-GE - CME) vs BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	70%	70%	60%	60%
<b>GULF COAST JET FUEL (PLATTS) CALENDAR SWAP FUTURES (NY-GE - CME) vs BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	70%	70%	60%	60%
<b>GULF COAST JET FUEL (PLATTS) CALENDAR SWAP FUTURES (NY-GE - CME) vs BRENT CRUDE OIL PENULTIMATE FINANCIAL FUTURES (NY-BB - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	70%	70%	60%	60%
<b>GULF COAST JET FUEL (PLATTS) CALENDAR SWAP FUTURES (NY-GE - CME) vs DATED BRENT (PLATTS) CALENDAR SWAP FUTURES (NY-UB - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	75%	75%	60%	60%
<b>GULF COAST JET FUEL (PLATTS) CALENDAR SWAP FUTURES (NY-GE - CME) vs DUBAI CRUDE OIL (PLATTS) CALENDAR SWAP FUTURES (NY-DC - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	75%	75%	55%	55%
<b>GULF COAST JET FUEL (PLATTS) CALENDAR SWAP FUTURES (NY-GE - CME) vs OMAN CRUDE OIL (NY-OQ - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	75%	75%	65%	65%
<b>GULF COAST ULSD (PLATTS) SWAP FUTURES (NY-LY - CME) vs BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	80%	80%	60%	60%
<b>GULF COAST ULSD (PLATTS) SWAP FUTURES (NY-LY - CME) vs BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	80%	80%	60%	60%
<b>GULF COAST ULSD (PLATTS) SWAP FUTURES (NY-LY - CME) vs BRENT CRUDE OIL PENULTIMATE FINANCIAL FUTURES (NY-BB - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	80%	80%	60%	60%
<b>GULF COAST ULSD (PLATTS) SWAP FUTURES (NY-LY - CME) vs CRUDE OIL FINANCIAL FUTURES (NY-WS - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	65%	65%	50%	50%
<b>GULF COAST ULSD (PLATTS) SWAP FUTURES (NY-LY - CME) vs CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-26 - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	65%	65%	50%	50%
<b>GULF COAST ULSD (PLATTS) SWAP FUTURES (NY-LY - CME) vs DATED BRENT (PLATTS) CALENDAR SWAP FUTURES (NY-UB - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	80%	80%	60%	60%
<b>GULF COAST ULSD (PLATTS) SWAP FUTURES (NY-LY - CME) vs DUBAI CRUDE OIL (PLATTS) CALENDAR SWAP FUTURES (NY-DC - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	80%	80%	60%	60%

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Inter-commodity Spread Rates</b>						
<b>HEATING OIL CALENDAR SWAP FUTURES (NY-MP - CME) vs OMAN CRUDE OIL (NY-OQ - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	80%	80%	70%	70%
<b>HEATING OIL FINANCIAL FUTURES (NY-BH - CME) vs OMAN CRUDE OIL (NY-OQ - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	80%	80%	70%	70%
<b>HEATING OIL LAST DAY FINANCIAL FUTURES (NY-23 - CME) vs OMAN CRUDE OIL (NY-OQ - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	80%	80%	70%	70%
<b>LIGHT SWEET CRUDE OIL FUTURES (NY-CL - CME) vs ARGUS PROPANE (SAUDI ARAMCO) SWAP FUTURES (NY-9N - CME)</b>						
Spread Credit Rate	Increase	+12:-1	30%	30%	45%	45%
<b>LIGHT SWEET CRUDE OIL FUTURES (NY-CL - CME) vs DME OMAN CRUDE OIL SWAP FUTURES (NY-DOO - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	85%	85%	80%	80%
<b>LIGHT SWEET CRUDE OIL FUTURES (NY-CL - CME) vs EUROPEAN PROPANE CIF ARA (ARGUS) SWAP FUTURES (NY-PS - CME)</b>						
Spread Credit Rate	Increase	+12:-1	50%	50%	60%	60%
<b>LIGHT SWEET CRUDE OIL FUTURES (NY-CL - CME) vs LOS ANGELES CARB DIESEL (OPIS) OUTRIGHT SWAP FUTURES (NY-LX - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	65%	65%	55%	55%
<b>LIGHT SWEET CRUDE OIL FUTURES (NY-CL - CME) vs OMAN CRUDE OIL (NY-OQ - CME)</b>						
Spread Credit Rate	Increase	+1:-1	70%	70%	80%	80%
<b>LIGHT SWEET CRUDE OIL FUTURES (NY-CL - CME) vs RBOB GASOLINE FINANCIAL FUTURES (NY-RT - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	80%	80%	77%	77%
<b>LIGHT SWEET CRUDE OIL FUTURES (NY-CL, CS, WS) vs CONWAY PROPANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-8K - CME)</b>						
Spread Credit Rate	Decrease	+1:-2	50%	50%	30%	30%
<b>LIGHT SWEET CRUDE OIL FUTURES (NY-CL, CS, WS) vs EIA FLAT TAX ON-HIGHWAY DIESEL SWAP FUTURES (NY-A5 - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	65%	65%	55%	55%
<b>LIGHT SWEET CRUDE OIL FUTURES (NY-CL, CS, WS) vs EUROPEAN PROPANE CIF ARA (ARGUS) SWAP FUTURES (NY-PS - CME)</b>						
Spread Credit Rate	Increase	+12:-1	50%	50%	60%	60%
<b>LIGHT SWEET CRUDE OIL FUTURES (NY-CL, CS, WS) vs GULF COAST ULSD (PLATTS) SWAP FUTURES (NY-LY - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	65%	65%	50%	50%
<b>LIGHT SWEET CRUDE OIL FUTURES (NY-CL, CS, WS) vs NY 2.2% FUEL OIL (PLATTS) SWAP FUTURES (NY-Y3 - CME)</b>						
Spread Credit Rate	Increase	+1:-1	65%	65%	75%	75%
<b>LIGHT, SWEET CRUDE OIL FUTURES (NYM-CL, CS, WS) vs NEW YORK 3.0% FUEL OIL (PLATTS) SWAP (NYM-H1 - CME)</b>						
Spread Credit Rate	Increase	+1:-1	65%	65%	75%	75%

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Inter-commodity Spread Rates</b>						
<b>LIGHT, SWEET CRUDE OIL FUTURES (NYM-CL, CS, WS) vs OMAN CRUDE OIL (NYM-OQ - CME)</b>						
Spread Credit Rate	Increase	+1:-1	70%	70%	80%	80%
<b>MONT BELVIEU NATURAL GASOLINE 5 DECIMALS (OPIS) SWAP FUTURES (NY-7Q - CME) vs BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	60%	60%	30%	30%
<b>MONT BELVIEU NATURAL GASOLINE 5 DECIMALS (OPIS) SWAP FUTURES (NY-7Q - CME) vs BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	60%	60%	30%	30%
<b>MONT BELVIEU NATURAL GASOLINE 5 DECIMALS (OPIS) SWAP FUTURES (NY-7Q - CME) vs DME OMAN CRUDE OIL SWAP FUTURES (NY-DOO - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	60%	60%	35%	35%
<b>MONT BELVIEU NORMAL BUTANE LDH (OPIS) SWAP FUTURES (NY-MNB) vs. DME OMAN CRUDE OIL (NY-OQ)</b>						
Spread Credit Rate	Decrease	+1:-1	45%	45%	35%	35%
Spread Credit Rate	Decrease	+1:-1	45%	45%	35%	35%
<b>MT BELVIEU NAT GAS 5 D. OPIS (NY-7Q) vs. BRENT FINANCIAL FUTURES (NY-BB)</b>						
Spread Credit Rate	Decrease	+1:-1	50%	50%	30%	30%
Spread Credit Rate	Decrease	+1:-1	50%	50%	30%	30%
<b>MT BELVIEU NAT GAS 5 D. OPIS (NY-7Q) vs. DME OMAN CRUDE OIL (NY-OQ)</b>						
Spread Credit Rate	Decrease	+1:-1	50%	50%	35%	35%
Spread Credit Rate	Decrease	+1:-1	50%	50%	35%	35%
<b>MT BELVIEU NAT GAS 5 D. OPIS (NY-7Q) vs. DUBAI CRUDE OIL CALENDAR SWAP (NY-DC)</b>						
Spread Credit Rate	Decrease	+1:-1	50%	50%	30%	30%
Spread Credit Rate	Decrease	+1:-1	50%	50%	30%	30%
<b>NEW YORK HARBOR NO. 2 HEATING OIL FUTURES (NY-HO - CME) vs OMAN CRUDE OIL (NY-OQ - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	80%	80%	70%	70%
<b>NEW YORK HARBOR RESIDUAL FUEL 1.0% (PLATTS) SWAP FUTURES (NY-MM - CME) vs BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME)</b>						
Spread Credit Rate	Increase	+1:-1	60%	60%	80%	80%
<b>NEW YORK HARBOR RESIDUAL FUEL 1.0% (PLATTS) SWAP FUTURES (NY-MM - CME) vs BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME)</b>						
Spread Credit Rate	Increase	+1:-1	60%	60%	80%	80%
<b>NEW YORK HARBOR RESIDUAL FUEL 1.0% (PLATTS) SWAP FUTURES (NY-MM - CME) vs BRENT CRUDE OIL PENULTIMATE FINANCIAL FUTURES (NY-BB - CME)</b>						
Spread Credit Rate	Increase	+1:-1	60%	60%	80%	80%
<b>NY 2.2% FUEL OIL (PLATTS) SWAP FUTURES (NY-Y3 - CME) vs BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME)</b>						
Spread Credit Rate	Increase	+1:-1	60%	60%	80%	80%

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Inter-commodity Spread Rates</b>						
<b>NY 2.2% FUEL OIL (PLATTS) SWAP FUTURES (NY-Y3 - CME) vs BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME)</b>						
Spread Credit Rate	Increase	+1:-1	60%	60%	80%	80%
<b>NY 2.2% FUEL OIL (PLATTS) SWAP FUTURES (NY-Y3 - CME) vs BRENT CRUDE OIL PENULTIMATE FINANCIAL FUTURES (NY-BB - CME)</b>						
Spread Credit Rate	Increase	-1:+1	60%	60%	80%	80%
Spread Credit Rate	Increase	+1:-1	60%	60%	80%	80%
<b>NY 2.2% FUEL OIL (PLATTS) SWAP FUTURES (NY-Y3 - CME) vs DATED BRENT (PLATTS) CALENDAR SWAP FUTURES (NY-UB - CME)</b>						
Spread Credit Rate	Increase	+1:-1	60%	60%	80%	80%
<b>NY 2.2% FUEL OIL (PLATTS) SWAP FUTURES (NY-Y3 - CME) vs DME OMAN CRUDE OIL SWAP FUTURES (NY-DOO - CME)</b>						
Spread Credit Rate	Increase	+1:-1	60%	60%	80%	80%
<b>NY 2.2% FUEL OIL (PLATTS) SWAP FUTURES (NY-Y3 - CME) vs OMAN CRUDE OIL (NY-OQ - CME)</b>						
Spread Credit Rate	Increase	+1:-1	60%	60%	80%	80%
<b>NY 3.0% FUEL OIL (PLATTS) SWAP FUTURES (NY-H1 - CME) vs BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME)</b>						
Spread Credit Rate	Increase	+1:-1	70%	70%	80%	80%
<b>NY 3.0% FUEL OIL (PLATTS) SWAP FUTURES (NY-H1 - CME) vs DME OMAN CRUDE OIL SWAP FUTURES (NY-DOO - CME)</b>						
Spread Credit Rate	Increase	+1:-1	70%	70%	80%	80%
<b>NY 3.0% FUEL OIL (PLATTS) SWAP FUTURES (NY-H1 - CME) vs OMAN CRUDE OIL (NY-OQ - CME)</b>						
Spread Credit Rate	Increase	+1:-1	70%	70%	80%	80%
<b>NY HARBOR RBOB GASOLINE (NYM-RB, RL, RT) vs LIGHT, SWEET CRUDE OIL FUTURES (NYM-CL, CS, WS)</b>						
Spread Credit Rate	Decrease	+1:-1	80%	80%	77%	77%
<b>OMAN CRUDE OIL (NY-OQ - CME) vs DATED BRENT (PLATTS) CALENDAR SWAP FUTURES (NY-UB - CME)</b>						
Spread Credit Rate	Increase	+1:-1	75%	75%	85%	85%
<b>OMAN CRUDE OIL (NY-OQ - CME) vs GULF COAST JET FUEL (PLATTS) CALENDAR SWAP FUTURES (NY-GE - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	75%	75%	65%	65%
<b>PREMIUM UNLEADED GASOLINE 10 PPM (PLATTS) FOB MED SWAP FUTURES (NY-3G - CME) vs BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME)</b>						
Spread Credit Rate	Increase	+2:-15	65%	65%	75%	75%
<b>PREMIUM UNLEADED GASOLINE 10 PPM (PLATTS) FOB MED SWAP FUTURES (NY-3G - CME) vs BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME)</b>						
Spread Credit Rate	Increase	+2:-15	65%	65%	75%	75%
<b>PREMIUM UNLEADED GASOLINE 10 PPM (PLATTS) FOB MED SWAP FUTURES (NY-3G - CME) vs BRENT CRUDE OIL PENULTIMATE FINANCIAL FUTURES (NY-BB - CME)</b>						
Spread Credit Rate	Increase	+2:-15	65%	65%	75%	75%



## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Inter-commodity Spread Rates</b>						
<b>PROPANE NON-LDH MONT BELVIEU (OPIS) SWAP FUTURES (NY-1R - CME) vs DATED BRENT (PLATTS) CALENDAR SWAP FUTURES (NY-UB - CME)</b>						
Spread Credit Rate	Increase	+1:-1	30%	30%	55%	55%
<b>RBOB GASOLINE CALENDAR SWAP FUTURES (NY-RL - CME) vs BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME)</b>						
Spread Credit Rate	Increase	+1:-1	55%	55%	70%	70%
<b>RBOB GASOLINE CALENDAR SWAP FUTURES (NY-RL - CME) vs BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME)</b>						
Spread Credit Rate	Increase	+1:-1	62%	62%	70%	70%
<b>RBOB GASOLINE CALENDAR SWAP FUTURES (NY-RL - CME) vs BRENT CRUDE OIL PENULTIMATE FINANCIAL FUTURES (NY-BB - CME)</b>						
Spread Credit Rate	Increase	+1:-1	62%	62%	70%	70%
<b>RBOB GASOLINE CALENDAR SWAP FUTURES (NY-RL - CME) vs LIGHT SWEET CRUDE OIL FUTURES (NY-CL - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	80%	80%	77%	77%
<b>RBOB GASOLINE LAST DAY FINANCIAL FUTURES (NY-27 - CME) vs BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME)</b>						
Spread Credit Rate	Increase	+1:-1	62%	62%	70%	70%
<b>RBOB GASOLINE LAST DAY FINANCIAL FUTURES (NY-27 - CME) vs BRENT CRUDE OIL PENULTIMATE FINANCIAL FUTURES (NY-BB - CME)</b>						
Spread Credit Rate	Increase	+1:-1	62%	62%	70%	70%
<b>SINGAPORE FUEL OIL 180 CST (PLATTS) CALENDAR SWAP FUTURES (NY-UA - CME) vs DATED BRENT (PLATTS) CALENDAR SWAP FUTURES (NY-UB - CME)</b>						
Spread Credit Rate	Increase	+3:-19	75%	75%	85%	85%
<b>SINGAPORE FUEL OIL 380 CST (PLATTS) SWAP FUTURES (NY-SE - CME) vs DATED BRENT (PLATTS) CALENDAR SWAP FUTURES (NY-UB - CME)</b>						
Spread Credit Rate	Increase	+3:-19	75%	75%	85%	85%
<b>WTI CALENDAR SWAP FUTURES (NY-CS - CME) vs ARGUS PROPANE (SAUDI ARAMCO) SWAP FUTURES (NY-9N - CME)</b>						
Spread Credit Rate	Increase	+12:-1	30%	30%	45%	45%
<b>WTI CALENDAR SWAP FUTURES (NY-CS - CME) vs BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	80%	80%	76%	76%
<b>WTI CALENDAR SWAP FUTURES (NY-CS - CME) vs CONWAY PROPANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-8K - CME)</b>						
Spread Credit Rate	Decrease	+1:-2	50%	50%	30%	30%
<b>WTI CALENDAR SWAP FUTURES (NY-CS - CME) vs CONWAY PROPANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-8K - CME).</b>						
Spread Credit Rate	Decrease	+1:-2	50%	50%	30%	30%

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Inter-commodity Spread Rates</b>						
<b>WTI CALENDAR SWAP FUTURES (NY-CS - CME) vs DME OMAN CRUDE OIL SWAP FUTURES (NY-DOO - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	85%	85%	80%	80%
<b>WTI CALENDAR SWAP FUTURES (NY-CS - CME) vs EIA FLAT TAX ON-HIGHWAY DIESEL SWAP FUTURES (NY-A5 - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	65%	65%	55%	55%
<b>WTI CALENDAR SWAP FUTURES (NY-CS - CME) vs EIA FLAT TAX ON-HIGHWAY DIESEL SWAP FUTURES (NY-A5 - CME).</b>						
Spread Credit Rate	Decrease	+1:-1	65%	65%	55%	55%
<b>WTI CALENDAR SWAP FUTURES (NY-CS - CME) vs EUROPEAN PROPANE CIF ARA (ARGUS) SWAP FUTURES (NY-PS - CME)</b>						
Spread Credit Rate	Increase	+12:-1	50%	50%	60%	60%
<b>WTI CALENDAR SWAP FUTURES (NY-CS - CME) vs EUROPEAN PROPANE CIF ARA (ARGUS) SWAP FUTURES (NY-PS - CME).</b>						
Spread Credit Rate	Increase	+12:-1	50%	50%	60%	60%
<b>WTI CALENDAR SWAP FUTURES (NY-CS - CME) vs GULF COAST ULSD (PLATTS) SWAP FUTURES (NY-LY - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	65%	65%	50%	50%
<b>WTI CALENDAR SWAP FUTURES (NY-CS - CME) vs GULF COAST ULSD (PLATTS) SWAP FUTURES (NY-LY - CME).</b>						
Spread Credit Rate	Decrease	+1:-1	65%	65%	50%	50%
<b>WTI CALENDAR SWAP FUTURES (NY-CS - CME) vs LOS ANGELES CARB DIESEL (OPIS) OUTRIGHT SWAP FUTURES (NY-LX - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	65%	65%	55%	55%
<b>WTI CALENDAR SWAP FUTURES (NY-CS - CME) vs NY 2.2% FUEL OIL (PLATTS) SWAP FUTURES (NY-Y3 - CME)</b>						
Spread Credit Rate	Increase	+1:-1	65%	65%	75%	75%
<b>WTI CALENDAR SWAP FUTURES (NY-CS - CME) vs NY 3.0% FUEL OIL (PLATTS) SWAP FUTURES (NY-H1 - CME)</b>						
Spread Credit Rate	Increase	+1:-1	65%	65%	75%	75%
<b>WTI CALENDAR SWAP FUTURES (NY-CS - CME) vs OMAN CRUDE OIL (NY-OQ - CME)</b>						
Spread Credit Rate	Increase	+1:-1	70%	70%	80%	80%

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Inter-commodity Spread Rates</b>						
<b>ELECTRICITY - Inter-commodity Spread Rates</b>						
<b>AEP DAYTON HUB PEAK MONTHLY (NYM-VM - CME) vs HENRY HUB NATURAL GAS (NYM-NG, NN, HP)</b>						
Spread Credit Rate	Decrease	+1:-1	60%	60%	45%	45%
<b>HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs PJM AECO ZONE PEAK CALENDAR-MONTH DAY-AHEAD LMP SWAP FUTURES (NY-Y1 - CME)</b>						
Spread Credit Rate	Decrease	+1:-11	65%	65%	45%	45%
<b>HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs PJM AEP DAYTON HUB 5MW PEAK CALENDAR-MONTH REAL-TIME LMP SWAP FUTURES (NY-Z9 - CME)</b>						
Spread Credit Rate	Decrease	+1:-11	60%	60%	45%	45%
<b>HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs PJM AEP DAYTON HUB PEAK CALENDAR-MONTH LMP SWAP FUTURES (NY-VM - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	60%	60%	45%	45%
<b>HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs PJM JCPL ZONE PEAK CALENDAR-MONTH DAY-AHEAD LMP SWAP FUTURES (NY-J2 - CME)</b>						
Spread Credit Rate	Decrease	+1:-11	65%	65%	45%	45%
<b>HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs PJM PEAK CALENDAR-MONTH LMP SWAP FUTURES (NY-JM - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	65%	65%	45%	45%
<b>HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs PJM WESTERN HUB PEAK CALENDAR-MONTH DAY-AHEAD LMP SWAP FUTURES (NY-J4 - CME)</b>						
Spread Credit Rate	Decrease	+1:-11	60%	60%	45%	45%
<b>HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs PJM WESTERN HUB PEAK CALENDAR-MONTH REAL-TIME LMP SWAP FUTURES (NY-L1 - CME)</b>						
Spread Credit Rate	Decrease	+1:-11	65%	65%	45%	45%
<b>PJM AEP DAYTON HUB 5MW PEAK CALENDAR-MONTH REAL-TIME LMP SWAP FUTURES (NY-Z9 - CME) vs HENRY HUB NATURAL GAS FUTURES (NY-NG - CME)</b>						
Spread Credit Rate	Decrease	-11:+1	60%	60%	45%	45%
<b>PJM WESTERN HUB PEAK CALENDAR-MONTH DAY-AHEAD LMP SWAP FUTURES (NY-J4 - CME) vs HENRY HUB NATURAL GAS FUTURES (NY-NG - CME)</b>						
Spread Credit Rate	Decrease	-11:+1	60%	60%	45%	45%
<b>PJM WESTERN HUB PEAK CALENDAR-MONTH REAL-TIME LMP SWAP FUTURES (NY-L1 - CME) vs HENRY HUB NATURAL GAS FUTURES (NY-NG - CME)</b>						
Spread Credit Rate	Decrease	-11:+1	65%	65%	45%	45%

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Inter-commodity Spread Rates</b>						
<b>EQUITY INDEX - Inter-commodity Spread Rates</b>						
<b>E-MICRO NIFTY FIFTY (II - CME) vs NASDAQ-100 (ND - CME)</b>						
Spread Credit Rate	New	+27:-1			35%	35%
<b>E-MICRO NIFTY FIFTY (II - CME) vs NIKKEI 225 DOLLAR-BASED (NK - CME)</b>						
Spread Credit Rate	New	+6:-1			40%	40%
<b>E-MICRO NIFTY FIFTY (II - CME) vs NIKKEI 225 YEN-BASED (N1 - CME)</b>						
Spread Credit Rate	New	+10:-1			40%	40%
<b>E-MICRO NIFTY FIFTY (II - CME) vs S&amp;P 500 (SP - CME)</b>						
Spread Credit Rate	New	+32:-1			50%	50%
<b>INTEREST RATES - Inter-commodity Spread Rates</b>						
<b>5-YEAR T-NOTE (25 - CME) vs U.S. TREASURY BOND (17 - CME)</b>						
Spread Credit Rate	Decrease	+5:-2	70%	70%	65%	65%

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Inter-commodity Spread Rates</b>						
<b>NATURAL GAS - Inter-commodity Spread Rates</b>						
<b>AEP DAYTON HUB PEAK MONTHLY (NYM-VM - CME) vs HENRY HUB NATURAL GAS (NYM-NG, NN, HP)</b>						
Spread Credit Rate	Decrease	+1:-1	60%	60%	45%	45%
<b>HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs PJM AECO ZONE PEAK CALENDAR-MONTH DAY-AHEAD LMP SWAP FUTURES (NY-Y1 - CME)</b>						
Spread Credit Rate	Decrease	+1:-11	65%	65%	45%	45%
<b>HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs PJM AEP DAYTON HUB 5MW PEAK CALENDAR-MONTH REAL-TIME LMP SWAP FUTURES (NY-Z9 - CME)</b>						
Spread Credit Rate	Decrease	+1:-11	60%	60%	45%	45%
<b>HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs PJM AEP DAYTON HUB PEAK CALENDAR-MONTH LMP SWAP FUTURES (NY-VM - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	60%	60%	45%	45%
<b>HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs PJM JCPL ZONE PEAK CALENDAR-MONTH DAY-AHEAD LMP SWAP FUTURES (NY-J2 - CME)</b>						
Spread Credit Rate	Decrease	+1:-11	65%	65%	45%	45%
<b>HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs PJM PEAK CALENDAR-MONTH LMP SWAP FUTURES (NY-JM - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	65%	65%	45%	45%
<b>HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs PJM WESTERN HUB PEAK CALENDAR-MONTH DAY-AHEAD LMP SWAP FUTURES (NY-J4 - CME)</b>						
Spread Credit Rate	Decrease	+1:-11	60%	60%	45%	45%
<b>HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs PJM WESTERN HUB PEAK CALENDAR-MONTH REAL-TIME LMP SWAP FUTURES (NY-L1 - CME)</b>						
Spread Credit Rate	Decrease	+1:-11	65%	65%	45%	45%
<b>PJM AEP DAYTON HUB 5MW PEAK CALENDAR-MONTH REAL-TIME LMP SWAP FUTURES (NY-Z9 - CME) vs HENRY HUB NATURAL GAS FUTURES (NY-NG - CME)</b>						
Spread Credit Rate	Decrease	-11:+1	60%	60%	45%	45%
<b>PJM WESTERN HUB PEAK CALENDAR-MONTH DAY-AHEAD LMP SWAP FUTURES (NY-J4 - CME) vs HENRY HUB NATURAL GAS FUTURES (NY-NG - CME)</b>						
Spread Credit Rate	Decrease	-11:+1	60%	60%	45%	45%
<b>PJM WESTERN HUB PEAK CALENDAR-MONTH REAL-TIME LMP SWAP FUTURES (NY-L1 - CME) vs HENRY HUB NATURAL GAS FUTURES (NY-NG - CME)</b>						
Spread Credit Rate	Decrease	-11:+1	65%	65%	45%	45%

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Inter-commodity Spread Rates</b>						
<b>NGL/PETROCHEMICALS - Inter-commodity Spread Rates</b>						
<b>ARGUS PROPANE (SAUDI ARAMCO) SWAP FUTURES (NY-9N - CME) vs BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME)</b>						
Spread Credit Rate	Increase	+2:-15	30%	30%	55%	55%
<b>ARGUS PROPANE (SAUDI ARAMCO) SWAP FUTURES (NY-9N - CME) vs BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME)</b>						
Spread Credit Rate	Increase	+2:-15	30%	30%	55%	55%
<b>ARGUS PROPANE (SAUDI ARAMCO) SWAP FUTURES (NY-9N - CME) vs BRENT CRUDE OIL PENULTIMATE FINANCIAL FUTURES (NY-BB - CME)</b>						
Spread Credit Rate	Increase	+2:-15	30%	30%	55%	55%
<b>ARGUS PROPANE (SAUDI ARAMCO) SWAP FUTURES (NY-9N - CME) vs DATED BRENT (PLATTS) CALENDAR SWAP FUTURES (NY-UB - CME)</b>						
Spread Credit Rate	Increase	+1:-12	30%	30%	45%	45%
<b>ARGUS PROPANE (SAUDI ARAMCO) SWAP FUTURES (NY-9N - CME) vs DME OMAN CRUDE OIL SWAP FUTURES (NY-DOO - CME)</b>						
Spread Credit Rate	Increase	+2:-15	30%	30%	55%	55%
<b>ARGUS PROPANE (SAUDI ARAMCO) SWAP FUTURES (NY-9N - CME) vs OMAN CRUDE OIL (NY-OQ - CME)</b>						
Spread Credit Rate	Increase	+2:-15	30%	30%	55%	55%
<b>ARGUS PROPANE FAR EAST INDEX SWAP FUTURES (NY-7E - CME) vs BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME)</b>						
Spread Credit Rate	Increase	+2:-15	45%	45%	55%	55%
<b>ARGUS PROPANE FAR EAST INDEX SWAP FUTURES (NY-7E - CME) vs BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME)</b>						
Spread Credit Rate	Increase	+2:-15	45%	45%	55%	55%
<b>ARGUS PROPANE FAR EAST INDEX SWAP FUTURES (NY-7E - CME) vs BRENT CRUDE OIL PENULTIMATE FINANCIAL FUTURES (NY-BB - CME)</b>						
Spread Credit Rate	Increase	+2:-15	45%	45%	55%	55%
<b>ARGUS PROPANE FAR EAST INDEX SWAP FUTURES (NY-7E - CME) vs DATED BRENT (PLATTS) CALENDAR SWAP FUTURES (NY-UB - CME)</b>						
Spread Credit Rate	Increase	+1:-12	45%	45%	55%	55%
<b>ARGUS PROPANE FAR EAST INDEX SWAP FUTURES (NY-7E - CME) vs DME OMAN CRUDE OIL SWAP FUTURES (NY-DOO - CME)</b>						
Spread Credit Rate	Increase	+2:-15	45%	45%	55%	55%
<b>ARGUS PROPANE FAR EAST INDEX SWAP FUTURES (NY-7E - CME) vs OMAN CRUDE OIL (NY-OQ - CME)</b>						
Spread Credit Rate	Increase	+2:-15	45%	45%	55%	55%
<b>BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME) vs PROPANE NON-LDH MONT BELVIEU (OPIS) SWAP FUTURES (NY-1R - CME)</b>						
Spread Credit Rate	Increase	+1:-1	30%	30%	55%	55%

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Inter-commodity Spread Rates</b>						
<b>BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME) vs EUROPEAN PROPANE CIF ARA (ARGUS) SWAP FUTURES (NY-PS - CME)</b>						
Spread Credit Rate	Increase	+15:-2	50%	50%	70%	70%
<b>BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME) vs PROPANE NON-LDH MONT BELVIEU (OPIS) SWAP FUTURES (NY-1R - CME)</b>						
Spread Credit Rate	Increase	+1:-1	30%	30%	55%	55%
<b>BRENT CRUDE OIL PENULTIMATE FINANCIAL FUTURES (NY-BB - CME) vs PROPANE NON-LDH MONT BELVIEU (OPIS) SWAP FUTURES (NY-1R - CME)</b>						
Spread Credit Rate	Increase	+1:-1	40%	40%	55%	55%
<b>CRUDE OIL FINANCIAL FUTURES (NY-WS - CME) vs ARGUS PROPANE (SAUDI ARAMCO) SWAP FUTURES (NY-9N - CME)</b>						
Spread Credit Rate	Increase	+12:-1	30%	30%	45%	45%
<b>CRUDE OIL FINANCIAL FUTURES (NY-WS - CME) vs CONWAY PROPANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-8K - CME)</b>						
Spread Credit Rate	Decrease	+1:-2	50%	50%	30%	30%
<b>CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-26 - CME) vs ARGUS PROPANE (SAUDI ARAMCO) SWAP FUTURES (NY-9N - CME)</b>						
Spread Credit Rate	Increase	+12:-1	30%	30%	45%	45%
<b>CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-26 - CME) vs CONWAY PROPANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-8K - CME)</b>						
Spread Credit Rate	Decrease	+1:-2	50%	50%	30%	30%
<b>DME OMAN CRUDE OIL SWAP FUTURES (NY-DOO - CME) vs MONT BELVIEU NORMAL BUTANE LDH (OPIS) SWAP FUTURES (NY-MNB - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	45%	45%	35%	35%
<b>EUROPE DATED BRENT SWAP (NY-UB) vs. MONT BELVIEU LDH PROPANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-B0)</b>						
Spread Credit Rate	Increase	+1:-1	40%	40%	55%	55%
Spread Credit Rate	Increase	+1:-1	40%	40%	55%	55%
<b>EUROPE DATED BRENT SWAP (NY-UB) vs. MT BELVIEU NAT GAS 5 D. OPIS (NY-7Q)</b>						
Spread Credit Rate	Decrease	+1:-1	50%	50%	30%	30%
Spread Credit Rate	Decrease	+1:-1	50%	50%	30%	30%
<b>EUROPEAN PROPANE CIF ARA (ARGUS) SWAP FUTURES (NY-PS - CME) vs BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME)</b>						
Spread Credit Rate	Increase	+2:-15	50%	50%	70%	70%
<b>EUROPEAN PROPANE CIF ARA (ARGUS) SWAP FUTURES (NY-PS - CME) vs BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME)</b>						
Spread Credit Rate	Increase	+2:-15	50%	50%	70%	70%
<b>EUROPEAN PROPANE CIF ARA (ARGUS) SWAP FUTURES (NY-PS - CME) vs BRENT CRUDE OIL PENULTIMATE FINANCIAL FUTURES (NY-BB - CME)</b>						
Spread Credit Rate	Increase	+2:-15	50%	50%	70%	70%

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Inter-commodity Spread Rates</b>						
<b>EUROPEAN PROPANE CIF ARA (ARGUS) SWAP FUTURES (NY-PS - CME) vs DATED BRENT (PLATTS) CALENDAR SWAP FUTURES (NY-UB - CME)</b>						
Spread Credit Rate	Increase	+1:-12	50%	50%	65%	65%
<b>EUROPEAN PROPANE CIF ARA (ARGUS) SWAP FUTURES (NY-PS - CME) vs DME OMAN CRUDE OIL SWAP FUTURES (NY-DOO - CME)</b>						
Spread Credit Rate	Increase	+2:-15	50%	50%	70%	70%
<b>EUROPEAN PROPANE CIF ARA (ARGUS) SWAP FUTURES (NY-PS - CME) vs OMAN CRUDE OIL (NY-OQ - CME)</b>						
Spread Credit Rate	Increase	+2:-15	50%	50%	70%	70%
<b>LIGHT SWEET CRUDE OIL FUTURES (NY-CL - CME) vs ARGUS PROPANE (SAUDI ARAMCO) SWAP FUTURES (NY-9N - CME)</b>						
Spread Credit Rate	Increase	+12:-1	30%	30%	45%	45%
<b>LIGHT SWEET CRUDE OIL FUTURES (NY-CL - CME) vs EUROPEAN PROPANE CIF ARA (ARGUS) SWAP FUTURES (NY-PS - CME)</b>						
Spread Credit Rate	Increase	+12:-1	50%	50%	60%	60%
<b>LIGHT SWEET CRUDE OIL FUTURES (NY-CL, CS, WS) vs CONWAY PROPANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-8K - CME)</b>						
Spread Credit Rate	Decrease	+1:-2	50%	50%	30%	30%
<b>LIGHT SWEET CRUDE OIL FUTURES (NY-CL, CS, WS) vs EUROPEAN PROPANE CIF ARA (ARGUS) SWAP FUTURES (NY-PS - CME)</b>						
Spread Credit Rate	Increase	+12:-1	50%	50%	60%	60%
<b>MONT BELVIEU NATURAL GASOLINE 5 DECIMALS (OPIS) SWAP FUTURES (NY-7Q - CME) vs BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	60%	60%	30%	30%
<b>MONT BELVIEU NATURAL GASOLINE 5 DECIMALS (OPIS) SWAP FUTURES (NY-7Q - CME) vs BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	60%	60%	30%	30%
<b>MONT BELVIEU NATURAL GASOLINE 5 DECIMALS (OPIS) SWAP FUTURES (NY-7Q - CME) vs DME OMAN CRUDE OIL SWAP FUTURES (NY-DOO - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	60%	60%	35%	35%
<b>MONT BELVIEU NORMAL BUTANE LDH (OPIS) SWAP FUTURES (NY-MNB) vs. DME OMAN CRUDE OIL (NY-OQ)</b>						
Spread Credit Rate	Decrease	+1:-1	45%	45%	35%	35%
Spread Credit Rate	Decrease	+1:-1	45%	45%	35%	35%
<b>MT BELVIEU NAT GAS 5 D. OPIS (NY-7Q) vs. BRENT FINANCIAL FUTURES (NY-BB)</b>						
Spread Credit Rate	Decrease	+1:-1	50%	50%	30%	30%
Spread Credit Rate	Decrease	+1:-1	50%	50%	30%	30%
<b>MT BELVIEU NAT GAS 5 D. OPIS (NY-7Q) vs. DME OMAN CRUDE OIL (NY-OQ)</b>						
Spread Credit Rate	Decrease	+1:-1	50%	50%	35%	35%
Spread Credit Rate	Decrease	+1:-1	50%	50%	35%	35%



## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Inter-commodity Spread Rates</b>						
<b>MT BELVIEU NAT GAS 5 D. OPIS (NY-7Q) vs. DUBAI CRUDE OIL CALENDAR SWAP (NY-DC)</b>						
Spread Credit Rate	Decrease	+1:-1	50%	50%	30%	30%
Spread Credit Rate	Decrease	+1:-1	50%	50%	30%	30%
<b>PROPANE NON-LDH MONT BELVIEU (OPIS) SWAP FUTURES (NY-1R - CME) vs DATED BRENT (PLATTS) CALENDAR SWAP FUTURES (NY-UB - CME)</b>						
Spread Credit Rate	Increase	+1:-1	30%	30%	55%	55%
<b>WTI CALENDAR SWAP FUTURES (NY-CS - CME) vs ARGUS PROPANE (SAUDI ARAMCO) SWAP FUTURES (NY-9N - CME)</b>						
Spread Credit Rate	Increase	+12:-1	30%	30%	45%	45%
<b>WTI CALENDAR SWAP FUTURES (NY-CS - CME) vs CONWAY PROPANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-8K - CME)</b>						
Spread Credit Rate	Decrease	+1:-2	50%	50%	30%	30%
<b>WTI CALENDAR SWAP FUTURES (NY-CS - CME) vs CONWAY PROPANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-8K - CME).</b>						
Spread Credit Rate	Decrease	+1:-2	50%	50%	30%	30%
<b>WTI CALENDAR SWAP FUTURES (NY-CS - CME) vs EUROPEAN PROPANE CIF ARA (ARGUS) SWAP FUTURES (NY-PS - CME)</b>						
Spread Credit Rate	Increase	+12:-1	50%	50%	60%	60%
<b>WTI CALENDAR SWAP FUTURES (NY-CS - CME) vs EUROPEAN PROPANE CIF ARA (ARGUS) SWAP FUTURES (NY-PS - CME).</b>						
Spread Credit Rate	Increase	+12:-1	50%	50%	60%	60%

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Inter-commodity Spread Rates</b>						
<b>REFINED PRODUCTS - Inter-commodity Spread Rates</b>						
<b>1% FUEL OIL (PLATTS) CARGOES CIF MED SWAP FUTURES (NY-1W - CME) vs BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME)</b>						
Spread Credit Rate	Increase	+2:-15	70%	70%	80%	80%
<b>1% FUEL OIL (PLATTS) CARGOES CIF MED SWAP FUTURES (NY-1W - CME) vs BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME)</b>						
Spread Credit Rate	Increase	+2:-15	70%	70%	80%	80%
<b>1% FUEL OIL (PLATTS) CARGOES CIF MED SWAP FUTURES (NY-1W - CME) vs BRENT CRUDE OIL PENULTIMATE FINANCIAL FUTURES (NY-BB - CME)</b>						
Spread Credit Rate	Increase	+2:-15	70%	70%	80%	80%
<b>1% FUEL OIL (PLATTS) CARGOES CIF MED SWAP FUTURES (NY-1W - CME) vs DUBAI CRUDE OIL (PLATTS) CALENDAR SWAP FUTURES (NY-DC - CME)</b>						
Spread Credit Rate	Increase	+3:-19	70%	70%	80%	80%
<b>BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME) vs 1% FUEL OIL (PLATTS) CARGOES CIF NWE SWAP FUTURES (NY-1X - CME)</b>						
Spread Credit Rate	Increase	+19:-3	60%	60%	80%	80%
<b>BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME) vs 1% FUEL OIL (PLATTS) CARGOES CIF NWE SWAP FUTURES (NY-1X - CME).</b>						
Spread Credit Rate	Increase	+19:-3	60%	60%	80%	80%
<b>BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME) vs CHICAGO ULSD (PLATTS) SWAP FUTURES (NY-4C - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	80%	80%	70%	70%
<b>BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME) vs EUROPEAN 1% FUEL OIL (PLATTS) BARGES FOB RDAM CALENDAR SWAP FUTURES (NY-UH - CME)</b>						
Spread Credit Rate	Increase	+33:-5	75%	75%	85%	85%
<b>BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME) vs EUROPEAN 1% FUEL OIL (PLATTS) BARGES FOB RDAM CALENDAR SWAP FUTURES (NY-UH - CME).</b>						
Spread Credit Rate	Increase	+33:-5	75%	75%	85%	85%
<b>BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME) vs EUROPEAN 1% FUEL OIL (PLATTS) CARGOES FOB NWE CALENDAR SWAP FUTURES (NY-UF - CME)</b>						
Spread Credit Rate	Increase	+33:-5	75%	75%	85%	85%
<b>BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME) vs EUROPEAN 1% FUEL OIL (PLATTS) CARGOES FOB NWE CALENDAR SWAP FUTURES (NY-UF - CME).</b>						
Spread Credit Rate	Increase	+33:-5	75%	75%	85%	85%
<b>BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME) vs EUROPEAN GASOIL (ICE) SWAP FUTURES (NY-GX - CME)</b>						
Spread Credit Rate	Decrease	+15:-2	60%	60%	50%	50%
<b>BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME) vs EUROPEAN GASOIL (ICE) SWAP FUTURES (NY-GX - CME).</b>						
Spread Credit Rate	Decrease	+15:-2	60%	60%	50%	50%

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Inter-commodity Spread Rates</b>						
<b>BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME) vs EUROPEAN GASOIL BULLET SWAP FUTURES (NY-BG - CME)</b>						
Spread Credit Rate	Decrease	+15:-2	60%	60%	50%	50%
<b>BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME) vs EUROPEAN NAPHTHA (PLATTS) CALENDAR SWAP FUTURES (NY-UN - CME)</b>						
Spread Credit Rate	Increase	+9:-1	65%	65%	80%	80%
<b>BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME) vs EUROPEAN NAPHTHA (PLATTS) CALENDAR SWAP FUTURES (NY-UN - CME).</b>						
Spread Credit Rate	Increase	+9:-1	65%	65%	80%	80%
<b>BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME) vs GULF COAST JET FUEL (PLATTS) CALENDAR SWAP FUTURES (NY-GE - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	70%	70%	60%	60%
<b>BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME) vs GULF COAST ULSD (PLATTS) SWAP FUTURES (NY-LY - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	80%	80%	60%	60%
<b>BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME) vs LOS ANGELES CARB DIESEL (OPIS) OUTRIGHT SWAP FUTURES (NY-LX - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	75%	75%	65%	65%
<b>BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME) vs NEW YORK HARBOR RESIDUAL FUEL 1.0% (PLATTS) SWAP FUTURES (NY-MM - CME)</b>						
Spread Credit Rate	Increase	+1:-1	60%	60%	80%	80%
<b>BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME) vs SINGAPORE FUEL OIL 380 CST (PLATTS) SWAP FUTURES (NY-SE - CME)</b>						
Spread Credit Rate	Increase	+19:-3	75%	75%	85%	85%
<b>BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME) vs SINGAPORE FUEL OIL 380 CST (PLATTS) SWAP FUTURES (NY-SE - CME).</b>						
Spread Credit Rate	Increase	+19:-3	75%	75%	85%	85%
<b>BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME) vs SINGAPORE GASOIL (PLATTS) SWAP FUTURES (NY-SG - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	60%	60%	50%	50%
<b>BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME) vs SINGAPORE GASOIL (PLATTS) SWAP FUTURES (NY-SG - CME).</b>						
Spread Credit Rate	Decrease	+1:-1	60%	60%	50%	50%
<b>BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME) vs SINGAPORE NAPHTHA (PLATTS) SWAP FUTURES (NY-SP - CME)</b>						
Spread Credit Rate	Increase	+1:-1	65%	65%	80%	80%
<b>BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME) vs SINGAPORE NAPHTHA (PLATTS) SWAP FUTURES (NY-SP - CME).</b>						
Spread Credit Rate	Increase	+1:-1	65%	65%	80%	80%

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Inter-commodity Spread Rates</b>						
<b>BRENT CRUDE OIL BULLET SWAP FINANCIAL (NYM-BB, BZ, CY) vs EUROPEAN 1% FUEL OIL NORTHWEST EUROPE (NWE) CALENDAR SWAP (PLATTS) (NYM-UF - CME)</b>						
Spread Credit Rate	Increase	+33:-5	75%	75%	85%	85%
<b>BRENT CRUDE OIL BULLET SWAP FINANCIAL (NYM-BB, BZ, CY) vs EUROPEAN GASOIL (ICE) CALENDAR SWAP (NYM-GX - CME)</b>						
Spread Credit Rate	Decrease	+15:-2	60%	60%	50%	50%
<b>BRENT CRUDE OIL BULLET SWAP FINANCIAL (NYM-BB, BZ, CY) vs EUROPEAN NAPHTHA CALENDAR SWAP (NYM-UN - CME)</b>						
Spread Credit Rate	Increase	+9:-1	65%	65%	80%	80%
<b>BRENT CRUDE OIL BULLET SWAP FINANCIAL (NYM-BB, BZ, CY) vs SINGAPORE 380CST FUEL OIL (PLATTS) SWAP (NYM-SE - CME)</b>						
Spread Credit Rate	Increase	+19:-3	75%	75%	85%	85%
<b>BRENT CRUDE OIL BULLET SWAP FINANCIAL (NYM-BB, BZ, CY) vs SINGAPORE GASOIL SWAP (NYM-SG - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	60%	60%	50%	50%
<b>BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME) vs 1% FUEL OIL (PLATTS) CARGOES CIF NWE SWAP FUTURES (NY-1X - CME)</b>						
Spread Credit Rate	Increase	+19:-3	60%	60%	80%	80%
<b>BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME) vs CHICAGO ULSD (PLATTS) SWAP FUTURES (NY-4C - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	80%	80%	70%	70%
<b>BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME) vs EUROPEAN 1% FUEL OIL (PLATTS) BARGES FOB RDAM CALENDAR SWAP FUTURES (NY-UH - CME)</b>						
Spread Credit Rate	Increase	+33:-5	75%	75%	85%	85%
<b>BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME) vs EUROPEAN 1% FUEL OIL (PLATTS) CARGOES FOB NWE CALENDAR SWAP FUTURES (NY-UF - CME)</b>						
Spread Credit Rate	Increase	+33:-5	75%	75%	85%	85%
<b>BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME) vs EUROPEAN GASOIL (ICE) SWAP FUTURES (NY-GX - CME)</b>						
Spread Credit Rate	Decrease	+15:-2	60%	60%	50%	50%
<b>BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME) vs EUROPEAN GASOIL BULLET SWAP FUTURES (NY-BG - CME)</b>						
Spread Credit Rate	Decrease	+15:-2	60%	60%	50%	50%
<b>BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME) vs EUROPEAN NAPHTHA (PLATTS) CALENDAR SWAP FUTURES (NY-UN - CME)</b>						
Spread Credit Rate	Increase	+9:-1	65%	65%	80%	80%
<b>BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME) vs GULF COAST JET FUEL (PLATTS) CALENDAR SWAP FUTURES (NY-GE - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	70%	70%	60%	60%

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Inter-commodity Spread Rates</b>						
<b>BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME) vs GULF COAST ULSD (PLATTS) SWAP FUTURES (NY-LY - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	80%	80%	60%	60%
<b>BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME) vs LOS ANGELES CARB DIESEL (OPIS) OUTRIGHT SWAP FUTURES (NY-LX - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	75%	75%	65%	65%
<b>BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME) vs NEW YORK HARBOR NO. 2 HEATING OIL FUTURES (NY-HO - CME)</b>						
Spread Credit Rate	Increase	+1:-1	55%	55%	70%	70%
<b>BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME) vs NEW YORK HARBOR RESIDUAL FUEL 1.0% (PLATTS) SWAP FUTURES (NY-MM - CME)</b>						
Spread Credit Rate	Increase	+1:-1	60%	60%	80%	80%
<b>BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME) vs NY 2.2% FUEL OIL (PLATTS) SWAP FUTURES (NY-Y3 - CME)</b>						
Spread Credit Rate	Increase	+1:-1	60%	60%	80%	80%
<b>BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME) vs NY 3.0% FUEL OIL (PLATTS) SWAP FUTURES (NY-H1 - CME)</b>						
Spread Credit Rate	Increase	+1:-1	70%	70%	80%	80%
<b>BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME) vs RBOB GASOLINE FUTURES (NY-RB - CME)</b>						
Spread Credit Rate	Increase	+1:-1	62%	62%	70%	70%
<b>BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME) vs SINGAPORE FUEL OIL 380 CST (PLATTS) SWAP FUTURES (NY-SE - CME)</b>						
Spread Credit Rate	Increase	+19:-3	75%	75%	85%	85%
<b>BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME) vs SINGAPORE GASOIL (PLATTS) SWAP FUTURES (NY-SG - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	60%	60%	50%	50%
<b>BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME) vs SINGAPORE NAPHTHA (PLATTS) SWAP FUTURES (NY-SP - CME)</b>						
Spread Credit Rate	Increase	+1:-1	65%	65%	80%	80%
<b>BRENT CRUDE OIL PENULTIMATE FINANCIAL FUTURES (NY-BB - CME) vs CHICAGO ULSD (PLATTS) SWAP FUTURES (NY-4C - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	80%	80%	70%	70%
<b>BRENT CRUDE OIL PENULTIMATE FINANCIAL FUTURES (NY-BB - CME) vs EUROPEAN 1% FUEL OIL (PLATTS) BARGES FOB RDAM CALENDAR SWAP FUTURES (NY-UH - CME)</b>						
Spread Credit Rate	Increase	+33:-5	75%	75%	85%	85%
<b>BRENT CRUDE OIL PENULTIMATE FINANCIAL FUTURES (NY-BB - CME) vs EUROPEAN GASOIL BULLET SWAP FUTURES (NY-BG - CME)</b>						
Spread Credit Rate	Decrease	+15:-2	60%	60%	50%	50%

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Inter-commodity Spread Rates</b>						
<b>BRENT CRUDE OIL PENULTIMATE FINANCIAL FUTURES (NY-BB - CME) vs GULF COAST JET FUEL (PLATTS) CALENDAR SWAP FUTURES (NY-GE - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	70%	70%	60%	60%
<b>BRENT CRUDE OIL PENULTIMATE FINANCIAL FUTURES (NY-BB - CME) vs GULF COAST ULSD (PLATTS) SWAP FUTURES (NY-LY - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	80%	80%	60%	60%
<b>BRENT CRUDE OIL PENULTIMATE FINANCIAL FUTURES (NY-BB - CME) vs LOS ANGELES CARB DIESEL (OPIS) OUTRIGHT SWAP FUTURES (NY-LX - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	75%	75%	65%	65%
<b>BRENT CRUDE OIL PENULTIMATE FINANCIAL FUTURES (NY-BB - CME) vs NEW YORK HARBOR RESIDUAL FUEL 1.0% (PLATTS) SWAP FUTURES (NY-MM - CME)</b>						
Spread Credit Rate	Increase	+1:-1	60%	60%	80%	80%
<b>BRENT CRUDE OIL PENULTIMATE FINANCIAL FUTURES (NY-BB - CME) vs NY 3.0% FUEL OIL (PLATTS) SWAP FUTURES (NY-H1 - CME)</b>						
Spread Credit Rate	Increase	+1:-1	70%	70%	80%	80%
<b>BRENT CRUDE OIL PENULTIMATE FINANCIAL FUTURES (NY-BB - CME) vs RBOB GASOLINE FUTURES (NY-RB - CME)</b>						
Spread Credit Rate	Increase	+1:-1	62%	62%	70%	70%
<b>BRENT CRUDE OIL PENULTIMATE FINANCIAL FUTURES (NY-BB - CME) vs SINGAPORE NAPHTHA (PLATTS) SWAP FUTURES (NY-SP - CME)</b>						
Spread Credit Rate	Increase	+1:-1	65%	65%	80%	80%
<b>BRENT CRUDE OIL PENULTIMATE FINANCIAL FUTURES (NY-BB, BZ, CY) vs 1% FUEL OIL (PLATTS) CARGOES CIF NWE SWAP FUTURES (NY-1X - CME)</b>						
Spread Credit Rate	Increase	+19:-3	60%	60%	80%	80%
<b>BRENT CRUDE OIL PENULTIMATE FINANCIAL FUTURES (NY-BB, BZ, CY) vs EUROPEAN 1% FUEL OIL (PLATTS) CARGOES FOB NWE CALENDAR SWAP FUTURES (NY-UF - CME)</b>						
Spread Credit Rate	Increase	+33:-5	75%	75%	85%	85%
<b>CRUDE OIL FINANCIAL FUTURES (NY-WS - CME) vs EIA FLAT TAX ON-HIGHWAY DIESEL SWAP FUTURES (NY-A5 - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	65%	65%	55%	55%
<b>CRUDE OIL FINANCIAL FUTURES (NY-WS - CME) vs EUROPEAN GASOIL (ICE) SWAP FUTURES (NY-GX - CME)</b>						
Spread Credit Rate	Decrease	+15:-2	60%	60%	45%	45%
<b>CRUDE OIL FINANCIAL FUTURES (NY-WS - CME) vs EUROPEAN GASOIL BULLET SWAP FUTURES (NY-BG - CME)</b>						
Spread Credit Rate	Decrease	+15:-2	70%	70%	45%	45%
<b>CRUDE OIL FINANCIAL FUTURES (NY-WS - CME) vs LOS ANGELES CARB DIESEL (OPIS) OUTRIGHT SWAP FUTURES (NY-LX - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	65%	65%	55%	55%
<b>CRUDE OIL FINANCIAL FUTURES (NY-WS - CME) vs NY 3.0% FUEL OIL (PLATTS) SWAP FUTURES (NY-H1 - CME)</b>						
Spread Credit Rate	Increase	+1:-1	65%	65%	75%	75%

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Inter-commodity Spread Rates</b>						
<b>CRUDE OIL FINANCIAL FUTURES (NY-WS - CME) vs RBOB GASOLINE FINANCIAL FUTURES (NY-RT - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	80%	80%	77%	77%
<b>CRUDE OIL FINANCIAL FUTURES (NY-WS - CME) vs RBOB GASOLINE FUTURES (NY-RB - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	80%	80%	77%	77%
<b>CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-26 - CME) vs EIA FLAT TAX ON-HIGHWAY DIESEL SWAP FUTURES (NY-A5 - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	65%	65%	55%	55%
<b>CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-26 - CME) vs EUROPEAN GASOIL (ICE) SWAP FUTURES (NY-GX - CME)</b>						
Spread Credit Rate	Decrease	+15:-2	60%	60%	45%	45%
<b>CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-26 - CME) vs EUROPEAN GASOIL BULLET SWAP FUTURES (NY-BG - CME)</b>						
Spread Credit Rate	Decrease	+15:-2	70%	70%	45%	45%
<b>CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-26 - CME) vs LOS ANGELES CARB DIESEL (OPIS) OUTRIGHT SWAP FUTURES (NY-LX - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	65%	65%	55%	55%
<b>CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-26 - CME) vs NY 3.0% FUEL OIL (PLATTS) SWAP FUTURES (NY-H1 - CME)</b>						
Spread Credit Rate	Increase	+1:-1	65%	65%	75%	75%
<b>DATED BRENT (PLATTS) CALENDAR SWAP FUTURES (NY-UB - CME) vs LOS ANGELES CARB DIESEL (OPIS) OUTRIGHT SWAP FUTURES (NY-LX - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	75%	75%	65%	65%
<b>DUBAI CRUDE OIL (PLATTS) CALENDAR SWAP FUTURES (NY-DC - CME) vs EUROPEAN GASOIL (ICE) SWAP FUTURES (NY-GX - CME)</b>						
Spread Credit Rate	Decrease	+15:-2	65%	65%	50%	50%
<b>DUBAI CRUDE OIL (PLATTS) CALENDAR SWAP FUTURES (NY-DC - CME) vs EUROPEAN GASOIL BULLET SWAP FUTURES (NY-BG - CME)</b>						
Spread Credit Rate	Decrease	+15:-2	65%	65%	50%	50%
<b>DUBAI CRUDE OIL (PLATTS) CALENDAR SWAP FUTURES (NY-DC - CME) vs GULF COAST NO. 6 FUEL OIL 3.0% (PLATTS) SWAP FUTURES (NY-MF - CME)</b>						
Spread Credit Rate	Increase	+1:-1	65%	65%	80%	80%
<b>DUBAI CRUDE OIL (PLATTS) CALENDAR SWAP FUTURES (NY-DC - CME) vs LOS ANGELES CARB DIESEL (OPIS) OUTRIGHT SWAP FUTURES (NY-LX - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	75%	75%	50%	50%
<b>DUBAI CRUDE OIL (PLATTS) CALENDAR SWAP FUTURES (NY-DC - CME) vs NY 2.2% FUEL OIL (PLATTS) SWAP FUTURES (NY-Y3 - CME)</b>						
Spread Credit Rate	Increase	+1:-1	60%	60%	80%	80%
<b>DUBAI CRUDE OIL (PLATTS) CALENDAR SWAP FUTURES (NY-DC - CME) vs NY 3.0% FUEL OIL (PLATTS) SWAP FUTURES (NY-H1 - CME)</b>						
Spread Credit Rate	Increase	+1:-1	70%	70%	80%	80%

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Inter-commodity Spread Rates</b>						
<b>DUBAI CRUDE OIL CALENDAR SWAP (NYM-DC - CME) vs EUROPEAN GASOIL (ICE) CALENDAR SWAP (NYM-GX - CME)</b>						
Spread Credit Rate	Decrease	+15:-2	65%	65%	50%	50%
<b>EIA FLAT TAX ON-HIGHWAY DIESEL SWAP FUTURES (NY-A5 - CME) vs DUBAI CRUDE OIL (PLATTS) CALENDAR SWAP FUTURES (NY-DC - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	55%	55%	30%	30%
<b>EUROPEAN 1% FUEL OIL (PLATTS) BARGES FOB RDAM CALENDAR SWAP FUTURES (NY-UH - CME) vs DATED BRENT (PLATTS) CALENDAR SWAP FUTURES (NY-UB - CME)</b>						
Spread Credit Rate	Increase	+3:-19	65%	65%	75%	75%
<b>EUROPEAN 1% FUEL OIL (PLATTS) BARGES FOB RDAM CALENDAR SWAP FUTURES (NY-UH - CME) vs DUBAI CRUDE OIL (PLATTS) CALENDAR SWAP FUTURES (NY-DC - CME)</b>						
Spread Credit Rate	Increase	+3:-19	75%	75%	85%	85%
<b>EUROPEAN 1% FUEL OIL (PLATTS) BARGES FOB RDAM CALENDAR SWAP FUTURES (NY-UH - CME) vs LIGHT SWEET CRUDE OIL FUTURES (NY-CL - CME)</b>						
Spread Credit Rate	Increase	+5:-33	60%	60%	75%	75%
<b>EUROPEAN 1% FUEL OIL (PLATTS) BARGES FOB RDAM CALENDAR SWAP FUTURES (NY-UH - CME) vs OMAN CRUDE OIL (NY-OQ - CME)</b>						
Spread Credit Rate	Increase	+2:-15	65%	65%	80%	80%
<b>EUROPEAN 1% FUEL OIL (PLATTS) BARGES FOB RDAM CALENDAR SWAP FUTURES (NY-UH - CME) vs WTI CALENDAR SWAP FUTURES (NY-CS - CME)</b>						
Spread Credit Rate	Increase	+5:-33	60%	60%	75%	75%
<b>EUROPEAN 1% FUEL OIL (PLATTS) BARGES FOB RDAM CALENDAR SWAP FUTURES (NY-UH - CME) vs WTI CALENDAR SWAP FUTURES (NY-CS - CME).</b>						
Spread Credit Rate	Increase	+5:-33	60%	60%	75%	75%
<b>EUROPEAN 1% FUEL OIL (PLATTS) CARGOES FOB NWE CALENDAR SWAP FUTURES (NY-UF - CME) vs DME OMAN CRUDE OIL SWAP FUTURES (NY-DOO - CME)</b>						
Spread Credit Rate	Increase	+2:-15	55%	55%	80%	80%
<b>EUROPEAN 1% FUEL OIL (PLATTS) CARGOES FOB NWE CALENDAR SWAP FUTURES (NY-UF - CME) vs OMAN CRUDE OIL (NY-OQ - CME)</b>						
Spread Credit Rate	Increase	+2:-15	70%	70%	80%	80%
<b>EUROPEAN GASOIL (ICE) CALENDAR SWAP (NYM-GX - CME) vs LIGHT, SWEET CRUDE OIL FUTURES (NYM-CL, CS, WS)</b>						
Spread Credit Rate	Decrease	+2:-15	60%	60%	45%	45%
<b>EUROPEAN GASOIL (ICE) SWAP FUTURES (NY-GX - CME) vs DATED BRENT (PLATTS) CALENDAR SWAP FUTURES (NY-UB - CME)</b>						
Spread Credit Rate	Decrease	+2:-15	65%	65%	50%	50%
<b>EUROPEAN GASOIL (ICE) SWAP FUTURES (NY-GX - CME) vs WTI CALENDAR SWAP FUTURES (NY-CS - CME)</b>						
Spread Credit Rate	Decrease	+2:-15	60%	60%	45%	45%
<b>EUROPEAN GASOIL (ICE) SWAP FUTURES (NY-GX - CME) vs WTI CALENDAR SWAP FUTURES (NY-CS - CME).</b>						
Spread Credit Rate	Decrease	+2:-15	60%	60%	45%	45%



## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Inter-commodity Spread Rates</b>						
<b>EUROPEAN GASOIL BULLET SWAP FUTURES (NY-BG - CME) vs DATED BRENT (PLATTS) CALENDAR SWAP FUTURES (NY-UB - CME)</b>						
Spread Credit Rate	Decrease	+2:-15	65%	65%	50%	50%
<b>EUROPEAN GASOIL BULLET SWAP FUTURES (NY-BG - CME) vs LIGHT SWEET CRUDE OIL FUTURES (NY-CL - CME)</b>						
Spread Credit Rate	Decrease	+2:-15	60%	60%	45%	45%
<b>EUROPEAN GASOIL BULLET SWAP FUTURES (NY-BG - CME) vs WTI CALENDAR SWAP FUTURES (NY-CS - CME)</b>						
Spread Credit Rate	Decrease	+2:-15	70%	70%	45%	45%
<b>GASOLINE EURO-BOB OXY (ARGUS) NWE BARGES SWAP FUTURES (NY-7H - CME) vs DME OMAN CRUDE OIL SWAP FUTURES (NY-DOO - CME)</b>						
Spread Credit Rate	Increase	+2:-15	70%	70%	80%	80%
<b>GASOLINE EURO-BOB OXY (ARGUS) NWE BARGES SWAP FUTURES (NY-7H - CME) vs OMAN CRUDE OIL (NY-OQ - CME)</b>						
Spread Credit Rate	Increase	+2:-15	70%	70%	80%	80%
<b>GULF COAST JET FUEL (PLATTS) CALENDAR SWAP FUTURES (NY-GE - CME) vs BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	70%	70%	60%	60%
<b>GULF COAST JET FUEL (PLATTS) CALENDAR SWAP FUTURES (NY-GE - CME) vs BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	70%	70%	60%	60%
<b>GULF COAST JET FUEL (PLATTS) CALENDAR SWAP FUTURES (NY-GE - CME) vs BRENT CRUDE OIL PENULTIMATE FINANCIAL FUTURES (NY-BB - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	70%	70%	60%	60%
<b>GULF COAST JET FUEL (PLATTS) CALENDAR SWAP FUTURES (NY-GE - CME) vs DATED BRENT (PLATTS) CALENDAR SWAP FUTURES (NY-UB - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	75%	75%	60%	60%
<b>GULF COAST JET FUEL (PLATTS) CALENDAR SWAP FUTURES (NY-GE - CME) vs DUBAI CRUDE OIL (PLATTS) CALENDAR SWAP FUTURES (NY-DC - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	75%	75%	55%	55%
<b>GULF COAST JET FUEL (PLATTS) CALENDAR SWAP FUTURES (NY-GE - CME) vs OMAN CRUDE OIL (NY-OQ - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	75%	75%	65%	65%
<b>GULF COAST ULSD (PLATTS) SWAP FUTURES (NY-LY - CME) vs BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	80%	80%	60%	60%
<b>GULF COAST ULSD (PLATTS) SWAP FUTURES (NY-LY - CME) vs BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	80%	80%	60%	60%
<b>GULF COAST ULSD (PLATTS) SWAP FUTURES (NY-LY - CME) vs BRENT CRUDE OIL PENULTIMATE FINANCIAL FUTURES (NY-BB - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	80%	80%	60%	60%

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Inter-commodity Spread Rates</b>						
<b>GULF COAST ULSD (PLATTS) SWAP FUTURES (NY-LY - CME) vs CRUDE OIL FINANCIAL FUTURES (NY-WS - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	65%	65%	50%	50%
<b>GULF COAST ULSD (PLATTS) SWAP FUTURES (NY-LY - CME) vs CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-26 - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	65%	65%	50%	50%
<b>GULF COAST ULSD (PLATTS) SWAP FUTURES (NY-LY - CME) vs DATED BRENT (PLATTS) CALENDAR SWAP FUTURES (NY-UB - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	80%	80%	60%	60%
<b>GULF COAST ULSD (PLATTS) SWAP FUTURES (NY-LY - CME) vs DUBAI CRUDE OIL (PLATTS) CALENDAR SWAP FUTURES (NY-DC - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	80%	80%	60%	60%
<b>HEATING OIL CALENDAR SWAP FUTURES (NY-MP - CME) vs OMAN CRUDE OIL (NY-OQ - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	80%	80%	70%	70%
<b>HEATING OIL FINANCIAL FUTURES (NY-BH - CME) vs OMAN CRUDE OIL (NY-OQ - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	80%	80%	70%	70%
<b>HEATING OIL LAST DAY FINANCIAL FUTURES (NY-23 - CME) vs OMAN CRUDE OIL (NY-OQ - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	80%	80%	70%	70%
<b>LIGHT SWEET CRUDE OIL FUTURES (NY-CL - CME) vs LOS ANGELES CARB DIESEL (OPIS) OUTRIGHT SWAP FUTURES (NY-LX - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	65%	65%	55%	55%
<b>LIGHT SWEET CRUDE OIL FUTURES (NY-CL - CME) vs RBOB GASOLINE FINANCIAL FUTURES (NY-RT - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	80%	80%	77%	77%
<b>LIGHT SWEET CRUDE OIL FUTURES (NY-CL, CS, WS) vs EIA FLAT TAX ON-HIGHWAY DIESEL SWAP FUTURES (NY-A5 - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	65%	65%	55%	55%
<b>LIGHT SWEET CRUDE OIL FUTURES (NY-CL, CS, WS) vs GULF COAST ULSD (PLATTS) SWAP FUTURES (NY-LY - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	65%	65%	50%	50%
<b>LIGHT SWEET CRUDE OIL FUTURES (NY-CL, CS, WS) vs NY 2.2% FUEL OIL (PLATTS) SWAP FUTURES (NY-Y3 - CME)</b>						
Spread Credit Rate	Increase	+1:-1	65%	65%	75%	75%
<b>LIGHT, SWEET CRUDE OIL FUTURES (NYM-CL, CS, WS) vs NEW YORK 3.0% FUEL OIL (PLATTS) SWAP (NYM-H1 - CME)</b>						
Spread Credit Rate	Increase	+1:-1	65%	65%	75%	75%
<b>NEW YORK HARBOR NO. 2 HEATING OIL FUTURES (NY-HO - CME) vs OMAN CRUDE OIL (NY-OQ - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	80%	80%	70%	70%
<b>NEW YORK HARBOR RESIDUAL FUEL 1.0% (PLATTS) SWAP FUTURES (NY-MM - CME) vs BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME)</b>						
Spread Credit Rate	Increase	+1:-1	60%	60%	80%	80%

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Inter-commodity Spread Rates</b>						
<b>NEW YORK HARBOR RESIDUAL FUEL 1.0% (PLATTS) SWAP FUTURES (NY-MM - CME) vs BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME)</b>						
Spread Credit Rate	Increase	+1:-1	60%	60%	80%	80%
<b>NEW YORK HARBOR RESIDUAL FUEL 1.0% (PLATTS) SWAP FUTURES (NY-MM - CME) vs BRENT CRUDE OIL PENULTIMATE FINANCIAL FUTURES (NY-BB - CME)</b>						
Spread Credit Rate	Increase	+1:-1	60%	60%	80%	80%
<b>NY 2.2% FUEL OIL (PLATTS) SWAP FUTURES (NY-Y3 - CME) vs BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME)</b>						
Spread Credit Rate	Increase	+1:-1	60%	60%	80%	80%
<b>NY 2.2% FUEL OIL (PLATTS) SWAP FUTURES (NY-Y3 - CME) vs BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME)</b>						
Spread Credit Rate	Increase	+1:-1	60%	60%	80%	80%
<b>NY 2.2% FUEL OIL (PLATTS) SWAP FUTURES (NY-Y3 - CME) vs BRENT CRUDE OIL PENULTIMATE FINANCIAL FUTURES (NY-BB - CME)</b>						
Spread Credit Rate	Increase	-1:+1	60%	60%	80%	80%
Spread Credit Rate	Increase	+1:-1	60%	60%	80%	80%
<b>NY 2.2% FUEL OIL (PLATTS) SWAP FUTURES (NY-Y3 - CME) vs DATED BRENT (PLATTS) CALENDAR SWAP FUTURES (NY-UB - CME)</b>						
Spread Credit Rate	Increase	+1:-1	60%	60%	80%	80%
<b>NY 2.2% FUEL OIL (PLATTS) SWAP FUTURES (NY-Y3 - CME) vs DME OMAN CRUDE OIL SWAP FUTURES (NY-DOO - CME)</b>						
Spread Credit Rate	Increase	+1:-1	60%	60%	80%	80%
<b>NY 2.2% FUEL OIL (PLATTS) SWAP FUTURES (NY-Y3 - CME) vs OMAN CRUDE OIL (NY-OQ - CME)</b>						
Spread Credit Rate	Increase	+1:-1	60%	60%	80%	80%
<b>NY 3.0% FUEL OIL (PLATTS) SWAP FUTURES (NY-H1 - CME) vs BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME)</b>						
Spread Credit Rate	Increase	+1:-1	70%	70%	80%	80%
<b>NY 3.0% FUEL OIL (PLATTS) SWAP FUTURES (NY-H1 - CME) vs DME OMAN CRUDE OIL SWAP FUTURES (NY-DOO - CME)</b>						
Spread Credit Rate	Increase	+1:-1	70%	70%	80%	80%
<b>NY 3.0% FUEL OIL (PLATTS) SWAP FUTURES (NY-H1 - CME) vs OMAN CRUDE OIL (NY-OQ - CME)</b>						
Spread Credit Rate	Increase	+1:-1	70%	70%	80%	80%
<b>NY HARBOR RBOB GASOLINE (NYM-RB, RL, RT) vs LIGHT, SWEET CRUDE OIL FUTURES (NYM-CL, CS, WS)</b>						
Spread Credit Rate	Decrease	+1:-1	80%	80%	77%	77%
<b>OMAN CRUDE OIL (NY-OQ - CME) vs GULF COAST JET FUEL (PLATTS) CALENDAR SWAP FUTURES (NY-GE - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	75%	75%	65%	65%
<b>PREMIUM UNLEADED GASOLINE 10 PPM (PLATTS) FOB MED SWAP FUTURES (NY-3G - CME) vs BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME)</b>						
Spread Credit Rate	Increase	+2:-15	65%	65%	75%	75%

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Inter-commodity Spread Rates</b>						
<b>PREMIUM UNLEADED GASOLINE 10 PPM (PLATTS) FOB MED SWAP FUTURES (NY-3G - CME) vs BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME)</b>						
Spread Credit Rate	Increase	+2:-15	65%	65%	75%	75%
<b>PREMIUM UNLEADED GASOLINE 10 PPM (PLATTS) FOB MED SWAP FUTURES (NY-3G - CME) vs BRENT CRUDE OIL PENULTIMATE FINANCIAL FUTURES (NY-BB - CME)</b>						
Spread Credit Rate	Increase	+2:-15	65%	65%	75%	75%
<b>RBOB GASOLINE CALENDAR SWAP FUTURES (NY-RL - CME) vs BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME)</b>						
Spread Credit Rate	Increase	+1:-1	55%	55%	70%	70%
<b>RBOB GASOLINE CALENDAR SWAP FUTURES (NY-RL - CME) vs BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME)</b>						
Spread Credit Rate	Increase	+1:-1	62%	62%	70%	70%
<b>RBOB GASOLINE CALENDAR SWAP FUTURES (NY-RL - CME) vs BRENT CRUDE OIL PENULTIMATE FINANCIAL FUTURES (NY-BB - CME)</b>						
Spread Credit Rate	Increase	+1:-1	62%	62%	70%	70%
<b>RBOB GASOLINE CALENDAR SWAP FUTURES (NY-RL - CME) vs LIGHT SWEET CRUDE OIL FUTURES (NY-CL - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	80%	80%	77%	77%
<b>RBOB GASOLINE LAST DAY FINANCIAL FUTURES (NY-27 - CME) vs BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME)</b>						
Spread Credit Rate	Increase	+1:-1	62%	62%	70%	70%
<b>RBOB GASOLINE LAST DAY FINANCIAL FUTURES (NY-27 - CME) vs BRENT CRUDE OIL PENULTIMATE FINANCIAL FUTURES (NY-BB - CME)</b>						
Spread Credit Rate	Increase	+1:-1	62%	62%	70%	70%
<b>SINGAPORE FUEL OIL 180 CST (PLATTS) CALENDAR SWAP FUTURES (NY-UA - CME) vs DATED BRENT (PLATTS) CALENDAR SWAP FUTURES (NY-UB - CME)</b>						
Spread Credit Rate	Increase	+3:-19	75%	75%	85%	85%
<b>SINGAPORE FUEL OIL 380 CST (PLATTS) SWAP FUTURES (NY-SE - CME) vs DATED BRENT (PLATTS) CALENDAR SWAP FUTURES (NY-UB - CME)</b>						
Spread Credit Rate	Increase	+3:-19	75%	75%	85%	85%
<b>WTI CALENDAR SWAP FUTURES (NY-CS - CME) vs EIA FLAT TAX ON-HIGHWAY DIESEL SWAP FUTURES (NY-A5 - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	65%	65%	55%	55%
<b>WTI CALENDAR SWAP FUTURES (NY-CS - CME) vs EIA FLAT TAX ON-HIGHWAY DIESEL SWAP FUTURES (NY-A5 - CME).</b>						
Spread Credit Rate	Decrease	+1:-1	65%	65%	55%	55%
<b>WTI CALENDAR SWAP FUTURES (NY-CS - CME) vs GULF COAST ULSD (PLATTS) SWAP FUTURES (NY-LY - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	65%	65%	50%	50%
<b>WTI CALENDAR SWAP FUTURES (NY-CS - CME) vs GULF COAST ULSD (PLATTS) SWAP FUTURES (NY-LY - CME).</b>						
Spread Credit Rate	Decrease	+1:-1	65%	65%	50%	50%

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Inter-commodity Spread Rates</b>						
<b>WTI CALENDAR SWAP FUTURES (NY-CS - CME) vs LOS ANGELES CARB DIESEL (OPIS) OUTRIGHT SWAP FUTURES (NY-LX - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	65%	65%	55%	55%
<b>WTI CALENDAR SWAP FUTURES (NY-CS - CME) vs NY 2.2% FUEL OIL (PLATTS) SWAP FUTURES (NY-Y3 - CME)</b>						
Spread Credit Rate	Increase	+1:-1	65%	65%	75%	75%
<b>WTI CALENDAR SWAP FUTURES (NY-CS - CME) vs NY 3.0% FUEL OIL (PLATTS) SWAP FUTURES (NY-H1 - CME)</b>						
Spread Credit Rate	Increase	+1:-1	65%	65%	75%	75%

Rate Type	<u>Tier Description</u>	Change	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Short Option Minimum (SOM) Rate</b>						
<b>AGRICULTURE - Short Option Minimum (SOM) Rate</b>						
<b>NYMEX COFFEE FUTURES (KT) - SOM</b>						
Clearing Member Rate		Increase	11.000	10.000	22.000	20.000
<b>CRUDE OIL SPREADS - Short Option Minimum (SOM) Rate</b>						
<b>WTI CRUDE OIL 1 MONTH CSO (7A, A2) - SOM</b>						
Clearing Member Rate		Increase	22.000	20.000	23.100	21.000
<b>NATURAL GAS - Short Option Minimum (SOM) Rate</b>						
<b>HENRY HUB NATURAL GAS FUTURES (HHQ, KD, LN, LNW, MNG, NG, NGT, ON, ONW, U01, U02, U03, U04, U05, U06, U07, U08, U09, U10, U11, U12, U13, U14, U15, U16, U17, U18, U19, U20, U21, U22, U23, U24, U25, U26, U27, U28, U29, U30, U31) - SOM</b>						
Clearing Member Rate		Decrease	38.500	35.000	33.000	30.000
<b>HENRY HUB NATURAL GAS PENULTIMATE FINANCIAL FUTURES (E7, HH, HP, NP, QG) - SOM</b>						
Clearing Member Rate		Decrease	38.500	35.000	33.000	30.000
<b>NYMEX NATURAL GAS (H.HUB LTD) FUT (E7, HH, HHT, NN, NNT) - SOM</b>						
Clearing Member Rate		Decrease	38.500	35.000	33.000	30.000