



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

FROM: CME Clearing

SUBJECT: Performance Bond Requirements

DATE: Wednesday, April 05, 2017

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

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

and subscribe to the Performance Bond Rates Advisory Notice listserver.

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

The rates will be effective after the close of business on

Thursday, April 06, 2017.

Current rates as of:

Wednesday, April 05, 2017.

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
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Outright Rates

EQUITY INDEX - Outright Rates

CONSUMER STAPLES SECTOR TIC (XPT)

XPT	Spec		Decrease	USD	1,595	1,450	1,320	1,200
XPT	Hedge/Member		Decrease	USD	1,450	1,450	1,200	1,200

EMINI SP 500 CONS STAPLES SECTOR IX (XAP)

XAP	Spec		Decrease	USD	1,595	1,450	1,320	1,200
XAP	Hedge/Member		Decrease	USD	1,450	1,450	1,200	1,200

EMINI SP500- HEALTH CARE SECT INDEX (XAV)

XAV	Spec		Decrease	USD	2,860	2,600	2,420	2,200
XAV	Hedge/Member		Decrease	USD	2,600	2,600	2,200	2,200

S&P 500 ANNUAL DIVIDEND INDEX FUT (SDA)

SDA	Spec	Mths 1-3	Decrease	USD	165	150	138	125
SDA	Hedge/Member	Mths 1-3	Decrease	USD	150	150	125	125
SDA	Spec	Mths 4-6	Decrease	USD	220	200	176	160
SDA	Hedge/Member	Mths 4-6	Decrease	USD	200	200	160	160

S&P 500 QUARLY DIVIDEND INDEX FUT (SDI)

SDI	Spec	Mths 1-3	Decrease	USD	220	200	165	150
SDI	Hedge/Member	Mths 1-3	Decrease	USD	200	200	150	150

SP 500 - CONS STAPLES SYNTHETIC (1PT)

1PT	Spec		Decrease	USD	1,595	1,450	1,320	1,200
1PT	Hedge/Member		Decrease	USD	1,450	1,450	1,200	1,200

SP 500 HEALTH CARE SECTOR SYNTHETIC (1VT)

1VT	Spec		Decrease	USD	2,860	2,600	2,420	2,200
1VT	Hedge/Member		Decrease	USD	2,600	2,600	2,200	2,200

SP 500 HEALTH CARE SECTOR TIC (XVT)

XVT	Spec		Decrease	USD	2,860	2,600	2,420	2,200
XVT	Hedge/Member		Decrease	USD	2,600	2,600	2,200	2,200

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

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

NGL/PETROCHEMICALS - Outright Rates

ARGUS PROPAN FAR EST INDEX FUT (7E)

7E	Spec	Mnth 1	Decrease	USD	37,950	34,500	35,200	32,000
7E	Hedge/Member	Mnth 1	Decrease	USD	34,500	34,500	32,000	32,000
7E	Spec	Mnth 2	Decrease	USD	37,950	34,500	34,100	31,000
7E	Hedge/Member	Mnth 2	Decrease	USD	34,500	34,500	31,000	31,000
7E	Spec	Mnth 3+	Decrease	USD	33,000	30,000	29,700	27,000
7E	Hedge/Member	Mnth 3+	Decrease	USD	30,000	30,000	27,000	27,000

ARGUS PROPAN(SAUDI ARAMCO) FUT (9N)

9N	Spec	Mnrth 1	Decrease	USD	35,200	32,000	33,000	30,000
9N	Hedge/Member	Mnrth 1	Decrease	USD	32,000	32,000	30,000	30,000
9N	Spec	Mnth 2+	Decrease	USD	28,600	26,000	26,950	24,500
9N	Hedge/Member	Mnth 2+	Decrease	USD	26,000	26,000	24,500	24,500

CONWAY NAT GASOLINE FUT (8L)

8L	Spec		Decrease	USD	4,070	3,700	3,520	3,200
8L	Hedge/Member		Decrease	USD	3,700	3,700	3,200	3,200

CONWAY PROPANE 5 DEC. FUT (8K)

8K	Spec	Mth 2	Decrease	USD	2,090	1,900	1,815	1,650
8K	Hedge/Member	Mth 2	Decrease	USD	1,900	1,900	1,650	1,650
8K	Spec	Mth 3	Decrease	USD	1,760	1,600	1,540	1,400
8K	Hedge/Member	Mth 3	Decrease	USD	1,600	1,600	1,400	1,400
8K	Spec	Mths 4-11	Decrease	USD	1,540	1,400	1,430	1,300
8K	Hedge/Member	Mths 4-11	Decrease	USD	1,400	1,400	1,300	1,300
8K	Spec	Mths 12-24	Decrease	USD	1,540	1,400	1,430	1,300
8K	Hedge/Member	Mths 12-24	Decrease	USD	1,400	1,400	1,300	1,300

EURO PROPANE CIF ARA FUT (PS)

PS	Spec	Mths 2 - 3	Decrease	USD	33,000	30,000	26,400	24,000
PS	Hedge/Member	Mths 2 - 3	Decrease	USD	30,000	30,000	24,000	24,000
PS	Spec	Mths 4+	Decrease	USD	33,000	30,000	24,200	22,000
PS	Hedge/Member	Mths 4+	Decrease	USD	30,000	30,000	22,000	22,000

MIN ARGUS PROPANE SAUDI ARAMCO FUT (MAS)

MAS	Spec	Mnrth 1	Decrease	USD	3,520	3,200	3,300	3,000
MAS	Hedge/Member	Mnrth 1	Decrease	USD	3,200	3,200	3,000	3,000
MAS	Spec	Mnth 2+	Decrease	USD	2,860	2,600	2,695	2,450
MAS	Hedge/Member	Mnth 2+	Decrease	USD	2,600	2,600	2,450	2,450

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
Outright Rates								
MINI ARGUS PROPANE FAR EAST IDX (MAE)								
MAE	Spec	Mnth 1	Decrease	USD	3,795	3,450	3,520	3,200
MAE	Hedge/Member	Mnth 1	Decrease	USD	3,450	3,450	3,200	3,200
MAE	Spec	Mnth 2	Decrease	USD	3,795	3,450	3,410	3,100
MAE	Hedge/Member	Mnth 2	Decrease	USD	3,450	3,450	3,100	3,100
MAE	Spec	Mnth 3+	Decrease	USD	3,300	3,000	2,970	2,700
MAE	Hedge/Member	Mnth 3+	Decrease	USD	3,000	3,000	2,700	2,700
MINI EURO PROPANE CIF ARA ARGUS FUT (MPS)								
MPS	Spec	Mths 2 - 3	Decrease	USD	3,300	3,000	2,640	2,400
MPS	Hedge/Member	Mths 2 - 3	Decrease	USD	3,000	3,000	2,400	2,400
MPS	Spec	Mths 4+	Decrease	USD	3,300	3,000	2,420	2,200
MPS	Hedge/Member	Mths 4+	Decrease	USD	3,000	3,000	2,200	2,200
MT BELVIEU ETHYLENE IN-WELL(PCW) (MBE)								
MBE	Spec	Month 1	Decrease	USD	4,125	3,750	3,740	3,400
MBE	Hedge/Member	Month 1	Decrease	USD	3,750	3,750	3,400	3,400
MBE	Spec	Months 2+	Decrease	USD	4,015	3,650	3,410	3,100
MBE	Hedge/Member	Months 2+	Decrease	USD	3,650	3,650	3,100	3,100
MT BELVIEU ISO BUTANE 5 DEC. S (8I)								
8I	Spec	Mnth 1	Decrease	USD	5,280	4,800	4,400	4,000
8I	Hedge/Member	Mnth 1	Decrease	USD	4,800	4,800	4,000	4,000
8I	Spec	Mnth 2	Decrease	USD	3,300	3,000	2,860	2,600
8I	Hedge/Member	Mnth 2	Decrease	USD	3,000	3,000	2,600	2,600
8I	Spec	Mnth 7+	Decrease	USD	2,200	2,000	1,925	1,750
8I	Hedge/Member	Mnth 7+	Decrease	USD	2,000	2,000	1,750	1,750
8I	Spec	Mnth 3-6	Decrease	USD	2,640	2,400	2,090	1,900
8I	Hedge/Member	Mnth 3-6	Decrease	USD	2,400	2,400	1,900	1,900
MT BELVIEU LDH ISO-BUTANE(OPIS) FUT (MBL)								
MBL	Spec	Mnth1	Decrease	USD	6,050	5,500	4,510	4,100
MBL	Hedge/Member	Mnth1	Decrease	USD	5,500	5,500	4,100	4,100
MBL	Spec	Mnth2	Decrease	USD	6,050	5,500	3,190	2,900
MBL	Hedge/Member	Mnth2	Decrease	USD	5,500	5,500	2,900	2,900
MBL	Spec	Mnth3+	Decrease	USD	6,050	5,500	2,420	2,200
MBL	Hedge/Member	Mnth3+	Decrease	USD	5,500	5,500	2,200	2,200
MT BELVIEU NORMAL BUTANE LDH(OPIS) (MNB)								
MNB	Spec	Mnth 1	Decrease	USD	4,400	4,000	3,960	3,600
MNB	Hedge/Member	Mnth 1	Decrease	USD	4,000	4,000	3,600	3,600
MNB	Spec	Mnth 3+	Decrease	USD	3,190	2,900	2,530	2,300
MNB	Hedge/Member	Mnth 3+	Decrease	USD	2,900	2,900	2,300	2,300

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

MT. BELVIEU ETHYLENE(PCW) FIN FUT (MBN)

MBN	Spec	Mnth 1	Decrease	USD	4,620	4,200	3,850	3,500
MBN	Hedge/Member	Mnth 1	Decrease	USD	4,200	4,200	3,500	3,500
MBN	Spec	Mnths 2+	Decrease	USD	4,538	4,125	3,740	3,400
MBN	Hedge/Member	Mnths 2+	Decrease	USD	4,125	4,125	3,400	3,400

PGP POLYMER GRD PROPYLENE CAL FUT (PGP)

PGP	Spec	Mth 1	Decrease	USD	4,070	3,700	3,300	3,000
PGP	Hedge/Member	Mth 1	Decrease	USD	3,700	3,700	3,000	3,000

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

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

EQUITY INDEX - Intra Spreads

All Months (S&P 500 QUARLY DIVIDEND INDEX FUT)

SDI	Spec	Increase	USD	165	150	237	215
SDI	Hedge/Member	Increase	USD	150	150	215	215

S&P 500 Stock Index - All Months (BTIC ON E-MINI S&P 500 FUTURES)

EST	Spec	Decrease	USD	77	70	55	50
EST	Hedge/Member	Decrease	USD	70	70	50	50

S&P 500 Stock Index - All Months (E-MINI S&P 500 FUTURES MARKER)

ESI	Spec	Decrease	USD	77	70	55	50
ESI	Hedge/Member	Decrease	USD	70	70	50	50

S&P 500 Stock Index - All Months (E-MINI S&P 500 FUTURES)

ES	Spec	Decrease	USD	77	70	55	50
ES	Hedge/Member	Decrease	USD	70	70	50	50

S&P 500 Stock Index - All Months (S&P 500 FUTURES)

SP	Spec	Decrease	USD	385	350	275	250
SP	Hedge/Member	Decrease	USD	350	350	250	250

ETHANOL - Intra Spreads

Ethanol (Platts) T2 FOB Rotterdam Including Duty Swap - Mnth 2+ Months (ETHANOL(PL) T2 FOB RTRDM INCL)

Z1	Spec	Decrease	EUR	3,850	3,500	2,530	2,300
Z1	Hedge/Member	Decrease	EUR	3,500	3,500	2,300	2,300

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
Intra Spreads								
NGL/PETROCHEMICALS - Intra Spreads								
Conway Propane (OPIS) Swap - Mnth 1 vs. All Months (CONWAY PROPANE 5 DEC. FUT)								
8K	Spec		Decrease	USD	1,925	1,750	1,320	1,200
8K	Hedge/Member		Decrease	USD	1,750	1,750	1,200	1,200
Conway Propane (OPIS) Swap - Mnth 2+ Months (CONWAY PROPANE 5 DEC. FUT)								
8K	Spec		Decrease	USD	1,925	1,750	880	800
8K	Hedge/Member		Decrease	USD	1,750	1,750	800	800
Mont Belvieu Isobutane (OPIS) Swap - Mnth 1 and 2 vs. All Months (MT BELVIEU ISO BUTANE 5 DEC. S)								
8I	Spec		Decrease	USD	2,750	2,500	1,650	1,500
8I	Hedge/Member		Decrease	USD	2,500	2,500	1,500	1,500
Mont Belvieu Isobutane (OPIS) Swap - Mnth 1 vs. 2 (MT BELVIEU ISO BUTANE 5 DEC. S)								
8I	Spec		Decrease	USD	2,750	2,500	1,650	1,500
8I	Hedge/Member		Decrease	USD	2,500	2,500	1,500	1,500
Mont Belvieu Isobutane (OPIS) Swap - Mnth 3+ Months (MT BELVIEU ISO BUTANE 5 DEC. S)								
8I	Spec		Decrease	USD	2,750	2,500	770	700
8I	Hedge/Member		Decrease	USD	2,500	2,500	700	700
Mont Belvieu Natural Gasoline (OPIS) Swap - All Months (MONT BELVIEU NAT GAS (OPIS) FUT)								
W3	Spec		Decrease	USD	3,080	2,800	1,650	1,500
W3	Hedge/Member		Decrease	USD	2,800	2,800	1,500	1,500
Mont Belvieu Natural Gasoline (OPIS) Swap - All Months (MT BELVIEU NAT GAS 5 D. OPIS)								
7Q	Spec		Decrease	USD	3,080	2,800	1,650	1,500
7Q	Hedge/Member		Decrease	USD	2,800	2,800	1,500	1,500
Mont Belvieu Normal Butane LDH (OPIS) Swap Futures - all months (MT BELVIEU NORMAL BUTANE LDH(OPIS))								
MNB	Spec		Decrease	USD	2,970	2,700	1,980	1,800
MNB	Hedge/Member		Decrease	USD	2,700	2,700	1,800	1,800

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
CRUDE OIL - Inter-commodity Spread Rates						
BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME) vs GULF COAST JET FUEL (PLATTS) CALENDAR SWAP FUTURES (NY-GE - CME)						
Spread Credit Rate	Increase	+1:-1	75%	75%	80%	80%
BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME) vs HEATING OIL CALENDAR SWAP FUTURES (NY-MP - CME)						
Spread Credit Rate	Increase	+1:-1	83%	83%	85%	85%
BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME) vs HEATING OIL FINANCIAL FUTURES (NY-BH - CME)						
Spread Credit Rate	Increase	+1:-1	80%	80%	83%	83%
BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME) vs HEATING OIL LAST DAY FINANCIAL FUTURES (NY-23 - CME)						
Spread Credit Rate	Increase	+1:-1	80%	80%	83%	83%
BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME) vs NEW YORK HARBOR NO. 2 HEATING OIL FUTURES (NY-HO - CME)						
Spread Credit Rate	Increase	+1:-1	80%	80%	83%	83%
BRENT CRUDE OIL BULLET SWAP FINANCIAL (NYM-BB, BZ, CY) vs HEATING OIL (NYM-HO, BH, MP)						
Spread Credit Rate	Increase	+1:-1	83%	83%	85%	85%
Spread Credit Rate	Increase	+1:-1	80%	80%	83%	83%
BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME) vs GULF COAST JET FUEL (PLATTS) CALENDAR SWAP FUTURES (NY-GE - CME)						
Spread Credit Rate	Increase	+1:-1	75%	75%	80%	80%
BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME) vs HEATING OIL FINANCIAL FUTURES (NY-BH - CME)						
Spread Credit Rate	Increase	+1:-1	83%	83%	85%	85%
Spread Credit Rate	Increase	+1:-1	80%	80%	83%	83%
BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME) vs HEATING OIL LAST DAY FINANCIAL FUTURES (NY-23 - CME)						
Spread Credit Rate	Increase	+1:-1	83%	83%	85%	85%
Spread Credit Rate	Increase	+1:-1	80%	80%	83%	83%
BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME) vs NEW YORK HARBOR NO. 2 HEATING OIL FUTURES (NY-HO - CME)						
Spread Credit Rate	Increase	+1:-1	83%	83%	85%	85%
Spread Credit Rate	Increase	+1:-1	80%	80%	83%	83%
BRENT CRUDE OIL PENULTIMATE FINANCIAL FUTURES (NY-BB - CME) vs EIA FLAT TAX ON-HIGHWAY DIESEL SWAP FUTURES (NY-A5 - CME)						
Spread Credit Rate	Increase	+1:-1	50%	50%	70%	70%
BRENT CRUDE OIL PENULTIMATE FINANCIAL FUTURES (NY-BB - CME) vs GULF COAST JET FUEL (PLATTS) CALENDAR SWAP FUTURES (NY-GE - CME)						
Spread Credit Rate	Increase	+1:-1	75%	75%	80%	80%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
BRENT CRUDE OIL PENULTIMATE FINANCIAL FUTURES (NY-BB - CME) vs HEATING OIL FINANCIAL FUTURES (NY-BH - CME)						
Spread Credit Rate	Increase	+1:-1	83%	83%	85%	85%
Spread Credit Rate	Increase	+1:-1	80%	80%	83%	83%
BRENT CRUDE OIL PENULTIMATE FINANCIAL FUTURES (NY-BB - CME) vs HEATING OIL LAST DAY FINANCIAL FUTURES (NY-23 - CME)						
Spread Credit Rate	Increase	+1:-1	83%	83%	85%	85%
Spread Credit Rate	Increase	+1:-1	80%	80%	83%	83%
CRUDE OIL FINANCIAL FUTURES (NY-WS - CME) vs GULF COAST JET FUEL (PLATTS) CALENDAR SWAP FUTURES (NY-GE - CME)						
Spread Credit Rate	Increase	+1:-1	70%	70%	80%	80%
CRUDE OIL FINANCIAL FUTURES (NY-WS - CME) vs NEW YORK HARBOR NO. 2 HEATING OIL FUTURES (NY-HO - CME)						
Spread Credit Rate	Increase	+1:-1	82%	82%	84%	84%
CRUDE OIL FINANCIAL FUTURES (NY-WS - CME) vs NEW YORK HARBOR RESIDUAL FUEL 1.0% (PLATTS) SWAP FUTURES (NY-MM - CME)						
Spread Credit Rate	Increase	+1:-1	65%	65%	82%	82%
CRUDE OIL FINANCIAL FUTURES (NY-WS - CME) vs RBOB GASOLINE CALENDAR SWAP FUTURES (NY-RL - CME)						
Spread Credit Rate	Increase	+1:-1	76%	76%	83%	83%
CRUDE OIL FINANCIAL FUTURES (NY-WS - CME) vs RBOB GASOLINE FINANCIAL FUTURES (NY-RT - CME)						
Spread Credit Rate	Increase	+1:-1	80%	80%	83%	83%
CRUDE OIL FINANCIAL FUTURES (NY-WS - CME) vs RBOB GASOLINE FUTURES (NY-RB - CME)						
Spread Credit Rate	Increase	+1:-1	80%	80%	83%	83%
CRUDE OIL FINANCIAL FUTURES (NY-WS - CME) vs SINGAPORE FUEL OIL 380 CST (PLATTS) SWAP FUTURES (NY-SE - CME)						
Spread Credit Rate	Increase	+19:-3	80%	80%	83%	83%
CRUDE OIL FINANCIAL FUTURES (NY-WS - CME) vs SINGAPORE GASOIL (PLATTS) SWAP FUTURES (NY-SG - CME)						
Spread Credit Rate	Increase	+1:-1	60%	60%	65%	65%
CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-26 - CME) vs GULF COAST JET FUEL (PLATTS) CALENDAR SWAP FUTURES (NY-GE - CME)						
Spread Credit Rate	Increase	+1:-1	70%	70%	80%	80%
CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-26 - CME) vs NEW YORK HARBOR RESIDUAL FUEL 1.0% (PLATTS) SWAP FUTURES (NY-MM - CME)						
Spread Credit Rate	Increase	+1:-1	65%	65%	82%	82%
CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-26 - CME) vs SINGAPORE FUEL OIL 380 CST (PLATTS) SWAP FUTURES (NY-SE - CME)						
Spread Credit Rate	Increase	+19:-3	80%	80%	83%	83%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-26 - CME) vs SINGAPORE GASOIL (PLATTS) SWAP FUTURES (NY-SG - CME)						
Spread Credit Rate	Increase	+1:-1	60%	60%	65%	65%
DATED BRENT (PLATTS) CALENDAR SWAP FUTURES (NY-UB - CME) vs HEATING OIL CALENDAR SWAP FUTURES (NY-MP - CME)						
Spread Credit Rate	Increase	+1:-1	80%	80%	85%	85%
DATED BRENT (PLATTS) CALENDAR SWAP FUTURES (NY-UB - CME) vs HEATING OIL FINANCIAL FUTURES (NY-BH - CME)						
Spread Credit Rate	Increase	+1:-1	80%	80%	85%	85%
DATED BRENT (PLATTS) CALENDAR SWAP FUTURES (NY-UB - CME) vs NEW YORK HARBOR NO. 2 HEATING OIL FUTURES (NY-HO - CME)						
Spread Credit Rate	Increase	+1:-1	80%	80%	85%	85%
DUBAI CRUDE OIL (PLATTS) CALENDAR SWAP FUTURES (NY-DC - CME) vs NEW YORK HARBOR RESIDUAL FUEL 1.0% (PLATTS) SWAP FUTURES (NY-MM - CME)						
Spread Credit Rate	Increase	+1:-1	75%	75%	80%	80%
EIA FLAT TAX ON-HIGHWAY DIESEL SWAP FUTURES (NY-A5 - CME) vs BRENT CRUDE OIL PENULTIMATE FINANCIAL FUTURES (NY-BB - CME)						
Spread Credit Rate	Increase	+1:-1	50%	50%	70%	70%
EUROPEAN 3.5% FUEL OIL (PLATTS) BARGES FOB RDAM CALENDAR SWAP FUTURES (NY-UV - CME) vs LIGHT SWEET CRUDE OIL FUTURES (NY-CL - CME)						
Spread Credit Rate	Increase	+5:-33	85%	85%	87%	87%
EUROPEAN 3.5% FUEL OIL (PLATTS) BARGES FOB RDAM CALENDAR SWAP FUTURES (NY-UV - CME) vs WTI CALENDAR SWAP FUTURES (NY-CS - CME)						
Spread Credit Rate	Increase	+5:-33	85%	85%	87%	87%
GULF COAST JET FUEL (PLATTS) CALENDAR SWAP FUTURES (NY-GE - CME) vs BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME)						
Spread Credit Rate	Increase	+1:-1	75%	75%	80%	80%
GULF COAST JET FUEL (PLATTS) CALENDAR SWAP FUTURES (NY-GE - CME) vs BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME)						
Spread Credit Rate	Increase	+1:-1	75%	75%	80%	80%
GULF COAST JET FUEL (PLATTS) CALENDAR SWAP FUTURES (NY-GE - CME) vs BRENT CRUDE OIL PENULTIMATE FINANCIAL FUTURES (NY-BB - CME)						
Spread Credit Rate	Increase	+1:-1	75%	75%	80%	80%
GULF COAST JET FUEL (PLATTS) CALENDAR SWAP FUTURES (NY-GE - CME) vs DUBAI CRUDE OIL (PLATTS) CALENDAR SWAP FUTURES (NY-DC - CME)						
Spread Credit Rate	Increase	+1:-1	75%	75%	80%	80%
HEATING OIL CALENDAR SWAP FUTURES (NY-MP - CME) vs OMAN CRUDE OIL (NY-OQ - CME)						
Spread Credit Rate	Increase	+1:-1	70%	70%	80%	80%
HEATING OIL FINANCIAL FUTURES (NY-BH - CME) vs OMAN CRUDE OIL (NY-OQ - CME)						
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
Inter-commodity Spread Rates						
HEATING OIL LAST DAY FINANCIAL FUTURES (NY-23 - CME) vs CRUDE OIL FINANCIAL FUTURES (NY-WS - CME)						
Spread Credit Rate	Increase	+1:-1	82%	82%	84%	84%
HEATING OIL LAST DAY FINANCIAL FUTURES (NY-23 - CME) vs CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-26 - CME)						
Spread Credit Rate	Increase	+1:-1	82%	82%	84%	84%
HEATING OIL LAST DAY FINANCIAL FUTURES (NY-23 - CME) vs LIGHT SWEET CRUDE OIL FUTURES (NY-CL - CME)						
Spread Credit Rate	Increase	+1:-1	82%	82%	84%	84%
HEATING OIL LAST DAY FINANCIAL FUTURES (NY-23 - CME) vs OMAN CRUDE OIL (NY-OQ - CME)						
Spread Credit Rate	Increase	+1:-1	70%	70%	80%	80%
LIGHT SWEET CRUDE OIL FUTURES (NY-CL - CME) vs HEATING OIL CALENDAR SWAP FUTURES (NY-MP - CME)						
Spread Credit Rate	Increase	+1:-1	82%	82%	84%	84%
LIGHT SWEET CRUDE OIL FUTURES (NY-CL - CME) vs SINGAPORE FUEL OIL 380 CST (PLATTS) SWAP FUTURES (NY-SE - CME)						
Spread Credit Rate	Increase	+19:-3	80%	80%	83%	83%
LIGHT, SWEET CRUDE OIL FUTURES (NYM-CL, CS, WS) vs HEATING OIL FINANCIAL FUTURES (NYM-HO, BH, MP)						
Spread Credit Rate	Increase	+1:-1	82%	82%	84%	84%
LIGHT, SWEET CRUDE OIL FUTURES (NYM-CL, CS, WS) vs NEW YORK HARBOR RESIDUAL FUEL 1.0% SULFUR (PLATTS) SWAP (NYM-MM - CME)						
Spread Credit Rate	Increase	+1:-1	75%	75%	82%	82%
NEW YORK HARBOR NO. 2 HEATING OIL FUTURES (NY-HO - CME) vs OMAN CRUDE OIL (NY-OQ - CME)						
Spread Credit Rate	Increase	+1:-1	70%	70%	80%	80%
NY HARBOR RBOB GASOLINE (NYM-RB, RL, RT) vs LIGHT, SWEET CRUDE OIL FUTURES (NYM-CL, CS, WS)						
Spread Credit Rate	Increase	+1:-1	80%	80%	83%	83%
OMAN CRUDE OIL (NY-OQ - CME) vs GULF COAST NO. 6 FUEL OIL 3.0% (PLATTS) SWAP FUTURES (NY-MF - CME)						
Spread Credit Rate	Increase	+1:-1	75%	75%	80%	80%
RBOB GASOLINE CALENDAR SWAP FUTURES (NY-RL - CME) vs LIGHT SWEET CRUDE OIL FUTURES (NY-CL - CME)						
Spread Credit Rate	Increase	+1:-1	76%	76%	83%	83%
RBOB GASOLINE CALENDAR SWAP FUTURES (NY-RL - CME) vs WTI CALENDAR SWAP FUTURES (NY-CS - CME)						
Spread Credit Rate	Increase	+1:-1	76%	76%	83%	83%
RBOB GASOLINE FUTURES (NY-RB - CME) vs WTI CALENDAR SWAP FUTURES (NY-CS - CME)						
Spread Credit Rate	Increase	+1:-1	76%	76%	83%	83%
SINGAPORE FUEL OIL 380 CST (PLATTS) SWAP FUTURES (NY-SE - CME) vs DATED BRENT (PLATTS) CALENDAR SWAP FUTURES (NY-UB - CME)						
Spread Credit Rate	Increase	+3:-19	75%	75%	80%	80%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
SINGAPORE GASOIL (PLATTS) SWAP FUTURES (NY-SG - CME) vs OMAN CRUDE OIL (NY-OQ - CME)						
Spread Credit Rate	Increase	+1:-1	50%	50%	70%	70%
WTI CALENDAR SWAP FUTURES (NY-CS - CME) vs GULF COAST JET FUEL (PLATTS) CALENDAR SWAP FUTURES (NY-GE - CME)						
Spread Credit Rate	Increase	+1:-1	70%	70%	80%	80%
WTI CALENDAR SWAP FUTURES (NY-CS - CME) vs GULF COAST JET FUEL (PLATTS) CALENDAR SWAP FUTURES (NY-GE - CME).						
Spread Credit Rate	Increase	+1:-1	70%	70%	80%	80%
WTI CALENDAR SWAP FUTURES (NY-CS - CME) vs HEATING OIL CALENDAR SWAP FUTURES (NY-MP - CME)						
Spread Credit Rate	Increase	+1:-1	82%	82%	84%	84%
WTI CALENDAR SWAP FUTURES (NY-CS - CME) vs NEW YORK HARBOR RESIDUAL FUEL 1.0% (PLATTS) SWAP FUTURES (NY-MM - CME)						
Spread Credit Rate	Increase	+1:-1	65%	65%	82%	82%
WTI CALENDAR SWAP FUTURES (NY-CS - CME) vs NEW YORK HARBOR RESIDUAL FUEL 1.0% (PLATTS) SWAP FUTURES (NY-MM - CME).						
Spread Credit Rate	Increase	+1:-1	65%	65%	82%	82%
WTI CALENDAR SWAP FUTURES (NY-CS - CME) vs RBOB GASOLINE FINANCIAL FUTURES (NY-RT - CME)						
Spread Credit Rate	Increase	+1:-1	76%	76%	83%	83%
WTI CALENDAR SWAP FUTURES (NY-CS - CME) vs SINGAPORE FUEL OIL 380 CST (PLATTS) SWAP FUTURES (NY-SE - CME)						
Spread Credit Rate	Increase	+19:-3	80%	80%	83%	83%
WTI CALENDAR SWAP FUTURES (NY-CS - CME) vs SINGAPORE FUEL OIL 380 CST (PLATTS) SWAP FUTURES (NY-SE - CME).						
Spread Credit Rate	Increase	+19:-3	80%	80%	83%	83%
WTI CALENDAR SWAP FUTURES (NY-CS - CME) vs SINGAPORE GASOIL (PLATTS) SWAP FUTURES (NY-SG - CME)						
Spread Credit Rate	Increase	+1:-1	60%	60%	65%	65%
WTI CALENDAR SWAP FUTURES (NY-CS - CME) vs SINGAPORE GASOIL (PLATTS) SWAP FUTURES (NY-SG - CME).						
Spread Credit Rate	Increase	+1:-1	60%	60%	65%	65%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
EQUITY INDEX - Inter-commodity Spread Rates						
E-MINI DOW (\$5) FUTURES (YM - CME) vs S&P SELECT SECTOR - MATERIALS (XAB - CME)						
Spread Credit Rate	Increase	-2:+3	60%	60%	82%	82%
E-MINI FTSE 100 INDEX (GBP) FUTURES (FT1 - CME) vs NIKKEI 225 DOLLAR-BASED (NK - CME)						
Spread Credit Rate	Decrease	+1:-1	52%	52%	45%	45%
E-MINI NASDAQ-100 FUTURES (NQ - CME) vs S&P 500 (SP - CME)						
Spread Credit Rate	Increase	+2:-1	55%	55%	80%	80%
E-MINI RUSSELL 1000 INDEX FUTURES (RS1 - CME) vs S&P 500 (SP - CME)						
Spread Credit Rate	Decrease	+2:-1	85%	85%	80%	80%
EMINI SP 500 CONS STAPLES SECTOR IX (XAP) vs NIKKEI 225 FUTURES (NK)						
Spread Credit Rate	Decrease	+3:-2	47%	47%	43%	43%
EMINI SP 500 CONS STAPLES SECTOR IX (XAP) vs S&P 500 FUTURES (SP)						
Spread Credit Rate	Decrease	+2:-1	66%	66%	53%	53%
EMINI SP 500 ENERGY SECTOR INDEX (XAE) vs E-MINI SP500 CONS DISCRET SECTOR IX (XAY)						
Spread Credit Rate	Decrease	+1:-2	68%	68%	60%	60%
EMINI SP500 - FINANCIAL SECT INDEX (XAF) vs S&P 500 FUTURES (SP)						
Spread Credit Rate	Decrease	+2:-1	59%	59%	30%	30%
EMINI SP500- HEALTH CARE SECT INDEX (XAV) vs S&P 500 FUTURES (SP)						
Spread Credit Rate	Increase	+2:-1	40%	40%	66%	66%
EMINI SP500 MATERIALS SECTOR INDEX (XAB) vs EMINI SP500-TECHNOLOGY SECTOR INDEX (XAK)						
Spread Credit Rate	Increase	+3:-2	40%	40%	57%	57%
EMINI SP500 MATERIALS SECTOR INDEX (XAB) vs S&P 500 FUTURES (SP)						
Spread Credit Rate	Increase	+2:-1	65%	65%	84%	84%
EMINI SP500-INDUSTRIAL SECTOR INDEX (XAI) vs S&P 500 FUTURES (SP)						
Spread Credit Rate	Decrease	+2:-1	87%	87%	70%	70%
EMINI SP500-TECHNOLOGY SECTOR INDEX (XAK) vs EMINI SP500-UTILITIES SECTOR INDEX (XAU)						
Spread Credit Rate	Decrease	+3:-2	62%	62%	55%	55%
EMINI SP500-TECHNOLOGY SECTOR INDEX (XAK) vs S&P 500 FUTURES (SP)						
Spread Credit Rate	Increase	+3:-1	55%	55%	73%	73%
EMINI SP500-UTILITIES SECTOR INDEX (XAU) vs S&P 500 FUTURES (SP)						
Spread Credit Rate	Decrease	+2:-1	66%	66%	50%	50%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

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

ETHANOL - Inter-commodity Spread Rates

SINGAPORE GASOIL (PLATTS) SWAP FUTURES (NY-SG - CME) vs CHICAGO ETHANOL (PLATTS) SWAP FUTURES (NY-CU - CME)

Spread Credit Rate	New	+1:-1			40%	40%
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SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
NGL/PETROCHEMICALS - Inter-commodity Spread Rates						
ARGUS PROPANE FAR EAST INDEX SWAP FUTURES (NY-7E - CME) vs SINGAPORE FUEL OIL 380 CST (PLATTS) SWAP FUTURES (NY-SE - CME)						
Spread Credit Rate	Decrease	+1:-1	60%	60%	45%	45%
CONWAY NATURAL GASOLINE (OPIS) SWAP FUTURES (NY-8L - CME) vs EIA FLAT TAX ON-HIGHWAY DIESEL SWAP FUTURES (NY-A5 - CME)						
Spread Credit Rate	Increase	+1:-1	30%	30%	50%	50%
CONWAY NORMAL BUTANE (OPIS) SWAP FUTURES (NY-8M - CME) vs GULF COAST NO. 6 FUEL OIL 3.0% (PLATTS) SWAP FUTURES (NY-MF - CME)						
Spread Credit Rate	New	+1:-1			25%	25%
EIA FLAT TAX ON-HIGHWAY DIESEL SWAP FUTURES (NY-A5) vs. MONT BELVIEU LDH PROPANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-B0)						
Spread Credit Rate	Increase	+1:-1	40%	40%	55%	55%
Spread Credit Rate	Increase	+1:-1	40%	40%	55%	55%
EUROPEAN PROPANE CIF ARA (ARGUS) SWAP FUTURES (NY-PS) vs. EIA FLAT TAX ON-HIGHWAY DIESEL SWAP FUTURES (NY-A5)						
Spread Credit Rate	Increase	+2:-15	30%	30%	55%	55%
Spread Credit Rate	Increase	+2:-15	30%	30%	55%	55%
GASOLINE EURO-BOB OXY (ARGUS) NWE BARGES SWAP FUTURES (NY-7H - CME) vs MONT BELVIEU ETHANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-C0 - CME)						
Spread Credit Rate	New	+2:-15			30%	30%
GASOLINE EURO-BOB OXY (ARGUS) NWE BARGES SWAP FUTURES (NY-7H) vs. CONWAY PROPANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-8K)						
Spread Credit Rate	Increase	+2:-15	0%	0%	35%	35%
Spread Credit Rate	Increase	+2:-15	0%	0%	35%	35%
GULF COAST JET FUEL (PLATTS) CALENDAR SWAP FUTURES (NY-GE - CME) vs MONT BELVIEU LDH PROPANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-B0 - CME)						
Spread Credit Rate	Increase	+1:-1	35%	35%	50%	50%
GULF COAST NO. 6 FUEL OIL 3.0% (PLATTS) SWAP FUTURES (NY-MF - CME) vs MONT BELVIEU SPOT ETHYLENE IN-WELL (PCW) FUTURES (NY-MBE - CME)						
Spread Credit Rate	New	+1:-2			25%	25%
HEATING OIL CALENDAR SWAP FUTURES (NY-MP - CME) vs CONWAY PROPANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-8K - CME)						
Spread Credit Rate	Increase	+1:-1	30%	30%	50%	50%
HEATING OIL CALENDAR SWAP FUTURES (NY-MP - CME) vs MONT BELVIEU ETHANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-C0 - CME)						
Spread Credit Rate	Increase	+1:-1	0%	0%	30%	30%
MONT BELVIEU ETHANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-C0 - CME) vs SINGAPORE MOGAS 92 UNLEADED (PLATTS) SWAP FUTURES (NY-1N - CME)						
Spread Credit Rate	New	+1:-1			30%	30%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
MONT BELVIEU ISO-BUTANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-8I) vs. SINGAPORE MOGAS 92 UNLEADED (PLATTS) SWAP FUTURES (NY-1N)						
Spread Credit Rate	Increase	+1:-1	35%	35%	55%	55%
Spread Credit Rate	Increase	+1:-1	35%	35%	55%	55%
MONT BELVIEU NORMAL BUTANE LDH (OPIS) SWAP FUTURES (NY-MNB - CME) vs GULF COAST NO. 6 FUEL OIL 3.0% (PLATTS) SWAP FUTURES (NY-MF - CME)						
Spread Credit Rate	Decrease	+1:-1	45%	45%	25%	25%
NEW YORK HARBOR NO. 2 HEATING OIL FUTURES (NY-HO, MP, BH) vs CONWAY PROPANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-8K - CME)						
Spread Credit Rate	Increase	+1:-1	30%	30%	50%	50%
NEW YORK HARBOR NO. 2 HEATING OIL FUTURES (NY-HO, MP, BH) vs MONT BELVIEU ETHANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-C0 - CME)						
Spread Credit Rate	Increase	+1:-1	0%	0%	30%	30%
PROPANE NON-LDH MONT BELVIEU (OPIS) SWAP FUTURES (NY-1R - CME) vs GULF COAST NO. 6 FUEL OIL 3.0% (PLATTS) SWAP FUTURES (NY-MF - CME)						
Spread Credit Rate	Decrease	+1:-1	50%	50%	40%	40%
PROPANE NON-LDH MONT BELVIEU (OPIS) SWAP FUTURES (NY-1R - CME) vs SINGAPORE FUEL OIL 380 CST (PLATTS) SWAP FUTURES (NY-SE - CME)						
Spread Credit Rate	Decrease	+19:-3	50%	50%	40%	40%
PROPANE NON-LDH MONT BELVIEU (OPIS) SWAP FUTURES (NY-1R - CME) vs SINGAPORE GASOIL (PLATTS) SWAP FUTURES (NY-SG - CME)						
Spread Credit Rate	Increase	+1:-1	30%	30%	45%	45%
RBOB GASOLINE CALENDAR SWAP FUTURES (NY-RL - CME) vs MONT BELVIEU ETHANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-C0 - CME)						
Spread Credit Rate	Increase	+1:-1	30%	30%	45%	45%
RBOB GASOLINE FUTURES (NY-RB, RL, RT) vs CONWAY NORMAL BUTANE (OPIS) SWAP FUTURES (NY-8M - CME)						
Spread Credit Rate	Increase	+1:-1	30%	30%	45%	45%
RBOB GASOLINE FUTURES (NY-RB, RL, RT) vs MONT BELVIEU ETHANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-C0 - CME)						
Spread Credit Rate	Increase	+1:-1	0%	0%	45%	45%
RBOB GASOLINE FUTURES (NY-RB, RL, RT) vs MONT BELVIEU LDH PROPANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-B0 - CME)						
Spread Credit Rate	Increase	+1:-1	45%	45%	55%	55%
SINGAPORE GASOIL (PLATTS) SWAP FUTURES (NY-SG - CME) vs MONT BELVIEU LDH PROPANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-B0 - CME)						
Spread Credit Rate	Increase	+1:-1	25%	25%	50%	50%
SINGAPORE MOGAS 92 UNLEADED (PLATTS) SWAP FUTURES (NY-1N - CME) vs MONT BELVIEU LDH PROPANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-B0 - CME)						
Spread Credit Rate	Increase	+1:-1	40%	40%	50%	50%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
REFINED PRODUCTS - Inter-commodity Spread Rates						
ARGUS PROPANE FAR EAST INDEX SWAP FUTURES (NY-7E - CME) vs SINGAPORE FUEL OIL 380 CST (PLATTS) SWAP FUTURES (NY-SE - CME)						
Spread Credit Rate	Decrease	+1:-1	60%	60%	45%	45%
BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME) vs GULF COAST JET FUEL (PLATTS) CALENDAR SWAP FUTURES (NY-GE - CME)						
Spread Credit Rate	Increase	+1:-1	75%	75%	80%	80%
BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME) vs HEATING OIL CALENDAR SWAP FUTURES (NY-MP - CME)						
Spread Credit Rate	Increase	+1:-1	83%	83%	85%	85%
BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME) vs HEATING OIL FINANCIAL FUTURES (NY-BH - CME)						
Spread Credit Rate	Increase	+1:-1	80%	80%	83%	83%
BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME) vs HEATING OIL LAST DAY FINANCIAL FUTURES (NY-23 - CME)						
Spread Credit Rate	Increase	+1:-1	80%	80%	83%	83%
BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME) vs NEW YORK HARBOR NO. 2 HEATING OIL FUTURES (NY-HO - CME)						
Spread Credit Rate	Increase	+1:-1	80%	80%	83%	83%
BRENT CRUDE OIL BULLET SWAP FINANCIAL (NYM-BB, BZ, CY) vs HEATING OIL (NYM-HO, BH, MP)						
Spread Credit Rate	Increase	+1:-1	83%	83%	85%	85%
Spread Credit Rate	Increase	+1:-1	80%	80%	83%	83%
BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME) vs GULF COAST JET FUEL (PLATTS) CALENDAR SWAP FUTURES (NY-GE - CME)						
Spread Credit Rate	Increase	+1:-1	75%	75%	80%	80%
BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME) vs HEATING OIL FINANCIAL FUTURES (NY-BH - CME)						
Spread Credit Rate	Increase	+1:-1	83%	83%	85%	85%
Spread Credit Rate	Increase	+1:-1	80%	80%	83%	83%
BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME) vs HEATING OIL LAST DAY FINANCIAL FUTURES (NY-23 - CME)						
Spread Credit Rate	Increase	+1:-1	83%	83%	85%	85%
Spread Credit Rate	Increase	+1:-1	80%	80%	83%	83%
BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME) vs NEW YORK HARBOR NO. 2 HEATING OIL FUTURES (NY-HO - CME)						
Spread Credit Rate	Increase	+1:-1	83%	83%	85%	85%
Spread Credit Rate	Increase	+1:-1	80%	80%	83%	83%
BRENT CRUDE OIL PENULTIMATE FINANCIAL FUTURES (NY-BB - CME) vs EIA FLAT TAX ON-HIGHWAY DIESEL SWAP FUTURES (NY-A5 - CME)						
Spread Credit Rate	Increase	+1:-1	50%	50%	70%	70%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
BRENT CRUDE OIL PENULTIMATE FINANCIAL FUTURES (NY-BB - CME) vs GULF COAST JET FUEL (PLATTS) CALENDAR SWAP FUTURES (NY-GE - CME)						
Spread Credit Rate	Increase	+1:-1	75%	75%	80%	80%
BRENT CRUDE OIL PENULTIMATE FINANCIAL FUTURES (NY-BB - CME) vs HEATING OIL FINANCIAL FUTURES (NY-BH - CME)						
Spread Credit Rate	Increase	+1:-1	83%	83%	85%	85%
Spread Credit Rate	Increase	+1:-1	80%	80%	83%	83%
BRENT CRUDE OIL PENULTIMATE FINANCIAL FUTURES (NY-BB - CME) vs HEATING OIL LAST DAY FINANCIAL FUTURES (NY-23 - CME)						
Spread Credit Rate	Increase	+1:-1	83%	83%	85%	85%
Spread Credit Rate	Increase	+1:-1	80%	80%	83%	83%
CHICAGO ULSD (PLATTS) SWAP FUTURES (NY-4C - CME) vs GULF COAST NO. 6 FUEL OIL 3.0% (PLATTS) SWAP FUTURES (NY-MF - CME)						
Spread Credit Rate	Decrease	+1:-1	75%	75%	60%	60%
CONWAY NATURAL GASOLINE (OPIS) SWAP FUTURES (NY-8L - CME) vs EIA FLAT TAX ON-HIGHWAY DIESEL SWAP FUTURES (NY-A5 - CME)						
Spread Credit Rate	Increase	+1:-1	30%	30%	50%	50%
CONWAY NORMAL BUTANE (OPIS) SWAP FUTURES (NY-8M - CME) vs GULF COAST NO. 6 FUEL OIL 3.0% (PLATTS) SWAP FUTURES (NY-MF - CME)						
Spread Credit Rate	New	+1:-1			25%	25%
CRUDE OIL FINANCIAL FUTURES (NY-WS - CME) vs GULF COAST JET FUEL (PLATTS) CALENDAR SWAP FUTURES (NY-GE - CME)						
Spread Credit Rate	Increase	+1:-1	70%	70%	80%	80%
CRUDE OIL FINANCIAL FUTURES (NY-WS - CME) vs NEW YORK HARBOR NO. 2 HEATING OIL FUTURES (NY-HO - CME)						
Spread Credit Rate	Increase	+1:-1	82%	82%	84%	84%
CRUDE OIL FINANCIAL FUTURES (NY-WS - CME) vs NEW YORK HARBOR RESIDUAL FUEL 1.0% (PLATTS) SWAP FUTURES (NY-MM - CME)						
Spread Credit Rate	Increase	+1:-1	65%	65%	82%	82%
CRUDE OIL FINANCIAL FUTURES (NY-WS - CME) vs RBOB GASOLINE CALENDAR SWAP FUTURES (NY-RL - CME)						
Spread Credit Rate	Increase	+1:-1	76%	76%	83%	83%
CRUDE OIL FINANCIAL FUTURES (NY-WS - CME) vs RBOB GASOLINE FINANCIAL FUTURES (NY-RT - CME)						
Spread Credit Rate	Increase	+1:-1	80%	80%	83%	83%
CRUDE OIL FINANCIAL FUTURES (NY-WS - CME) vs RBOB GASOLINE FUTURES (NY-RB - CME)						
Spread Credit Rate	Increase	+1:-1	80%	80%	83%	83%
CRUDE OIL FINANCIAL FUTURES (NY-WS - CME) vs SINGAPORE FUEL OIL 380 CST (PLATTS) SWAP FUTURES (NY-SE - CME)						
Spread Credit Rate	Increase	+19:-3	80%	80%	83%	83%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
CRUDE OIL FINANCIAL FUTURES (NY-WS - CME) vs SINGAPORE GASOIL (PLATTS) SWAP FUTURES (NY-SG - CME)						
Spread Credit Rate	Increase	+1:-1	60%	60%	65%	65%
CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-26 - CME) vs GULF COAST JET FUEL (PLATTS) CALENDAR SWAP FUTURES (NY-GE - CME)						
Spread Credit Rate	Increase	+1:-1	70%	70%	80%	80%
CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-26 - CME) vs NEW YORK HARBOR RESIDUAL FUEL 1.0% (PLATTS) SWAP FUTURES (NY-MM - CME)						
Spread Credit Rate	Increase	+1:-1	65%	65%	82%	82%
CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-26 - CME) vs SINGAPORE FUEL OIL 380 CST (PLATTS) SWAP FUTURES (NY-SE - CME)						
Spread Credit Rate	Increase	+19:-3	80%	80%	83%	83%
CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-26 - CME) vs SINGAPORE GASOIL (PLATTS) SWAP FUTURES (NY-SG - CME)						
Spread Credit Rate	Increase	+1:-1	60%	60%	65%	65%
DATED BRENT (PLATTS) CALENDAR SWAP FUTURES (NY-UB - CME) vs HEATING OIL CALENDAR SWAP FUTURES (NY-MP - CME)						
Spread Credit Rate	Increase	+1:-1	80%	80%	85%	85%
DATED BRENT (PLATTS) CALENDAR SWAP FUTURES (NY-UB - CME) vs HEATING OIL FINANCIAL FUTURES (NY-BH - CME)						
Spread Credit Rate	Increase	+1:-1	80%	80%	85%	85%
DATED BRENT (PLATTS) CALENDAR SWAP FUTURES (NY-UB - CME) vs NEW YORK HARBOR NO. 2 HEATING OIL FUTURES (NY-HO - CME)						
Spread Credit Rate	Increase	+1:-1	80%	80%	85%	85%
DUBAI CRUDE OIL (PLATTS) CALENDAR SWAP FUTURES (NY-DC - CME) vs NEW YORK HARBOR RESIDUAL FUEL 1.0% (PLATTS) SWAP FUTURES (NY-MM - CME)						
Spread Credit Rate	Increase	+1:-1	75%	75%	80%	80%
EIA FLAT TAX ON-HIGHWAY DIESEL SWAP FUTURES (NY-A5 - CME) vs BRENT CRUDE OIL PENULTIMATE FINANCIAL FUTURES (NY-BB - CME)						
Spread Credit Rate	Increase	+1:-1	50%	50%	70%	70%
EIA FLAT TAX ON-HIGHWAY DIESEL SWAP FUTURES (NY-A5 - CME) vs GASOLINE EURO-BOB OXY (ARGUS) NWE BARGES SWAP FUTURES (NY-7H - CME)						
Spread Credit Rate	Increase	+15:-2	55%	55%	70%	70%
EIA FLAT TAX ON-HIGHWAY DIESEL SWAP FUTURES (NY-A5 - CME) vs SINGAPORE MOGAS 92 UNLEADED (PLATTS) SWAP FUTURES (NY-1N - CME)						
Spread Credit Rate	Increase	+1:-1	55%	55%	70%	70%
EIA FLAT TAX ON-HIGHWAY DIESEL SWAP FUTURES (NY-A5) vs. MONT BELVIEU LDH PROPANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-B0)						
Spread Credit Rate	Increase	+1:-1	40%	40%	55%	55%
Spread Credit Rate	Increase	+1:-1	40%	40%	55%	55%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
EUROPEAN 3.5% FUEL OIL (PLATTS) BARGES FOB RDAM CALENDAR SWAP FUTURES (NY-UV - CME) vs GULF COAST NO. 6 FUEL OIL 3.0% (PLATTS) SWAP FUTURES (NY-MF - CME)						
Spread Credit Rate	Increase	+3:-19	92%	92%	94%	94%
EUROPEAN 3.5% FUEL OIL (PLATTS) BARGES FOB RDAM CALENDAR SWAP FUTURES (NY-UV - CME) vs HEATING OIL CALENDAR SWAP FUTURES (NY-MP - CME)						
Spread Credit Rate	Increase	+2:-13	75%	75%	77%	77%
EUROPEAN 3.5% FUEL OIL (PLATTS) BARGES FOB RDAM CALENDAR SWAP FUTURES (NY-UV - CME) vs HEATING OIL FINANCIAL FUTURES (NY-BH - CME)						
Spread Credit Rate	Increase	+2:-13	75%	75%	77%	77%
EUROPEAN 3.5% FUEL OIL (PLATTS) BARGES FOB RDAM CALENDAR SWAP FUTURES (NY-UV - CME) vs HEATING OIL LAST DAY FINANCIAL FUTURES (NY-23 - CME)						
Spread Credit Rate	Increase	+2:-13	75%	75%	77%	77%
EUROPEAN 3.5% FUEL OIL (PLATTS) BARGES FOB RDAM CALENDAR SWAP FUTURES (NY-UV - CME) vs LIGHT SWEET CRUDE OIL FUTURES (NY-CL - CME)						
Spread Credit Rate	Increase	+5:-33	85%	85%	87%	87%
EUROPEAN 3.5% FUEL OIL (PLATTS) BARGES FOB RDAM CALENDAR SWAP FUTURES (NY-UV - CME) vs NEW YORK HARBOR NO. 2 HEATING OIL FUTURES (NY-HO - CME)						
Spread Credit Rate	Increase	+2:-13	75%	75%	77%	77%
EUROPEAN 3.5% FUEL OIL (PLATTS) BARGES FOB RDAM CALENDAR SWAP FUTURES (NY-UV - CME) vs NEW YORK HARBOR RESIDUAL FUEL 1.0% (PLATTS) SWAP FUTURES (NY-MM - CME)						
Spread Credit Rate	Increase	+3:-19	75%	75%	90%	90%
EUROPEAN 3.5% FUEL OIL (PLATTS) BARGES FOB RDAM CALENDAR SWAP FUTURES (NY-UV - CME) vs SINGAPORE FUEL OIL 380 CST (PLATTS) SWAP FUTURES (NY-SE - CME)						
Spread Credit Rate	Increase	+1:-1	92%	92%	94%	94%
EUROPEAN 3.5% FUEL OIL (PLATTS) BARGES FOB RDAM CALENDAR SWAP FUTURES (NY-UV - CME) vs WTI CALENDAR SWAP FUTURES (NY-CS - CME)						
Spread Credit Rate	Increase	+5:-33	85%	85%	87%	87%
EUROPEAN 3.5% FUEL OIL ROTTERDAM BALMO CALENDAR SWAP (NYM-UV - CME) vs SINGAPORE 380CST FUEL OIL (PLATTS) SWAP (NYM-SE - CME)						
Spread Credit Rate	Increase	+1:-1	90%	90%	94%	94%
EUROPEAN 3.5% FUEL OIL ROTTERDAM CALENDAR SWAP (NYM-UV - CME) vs GULF COAST #6 FUEL 3.0% SWAP (NYM-MF - CME)						
Spread Credit Rate	Increase	+3:-19	90%	90%	94%	94%
EUROPEAN GASOIL (ICE) SWAP FUTURES (NY-GX - CME) vs EIA FLAT TAX ON-HIGHWAY DIESEL SWAP FUTURES (NY-A5 - CME)						
Spread Credit Rate	Increase	+2:-15	45%	45%	60%	60%
EUROPEAN PROPANE CIF ARA (ARGUS) SWAP FUTURES (NY-PS) vs. EIA FLAT TAX ON-HIGHWAY DIESEL SWAP FUTURES (NY-A5)						
Spread Credit Rate	Increase	+2:-15	30%	30%	55%	55%
Spread Credit Rate	Increase	+2:-15	30%	30%	55%	55%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
GASOLINE EURO-BOB OXY (ARGUS) NWE BARGES SWAP FUTURES (NY-7H - CME) vs EUROPEAN 3.5% FUEL OIL (PLATTS) BARGES FOB RDAM CALENDAR SWAP FUTURES (NY-UV - CME)						
Spread Credit Rate	Increase	+1:-1	55%	55%	63%	63%
GASOLINE EURO-BOB OXY (ARGUS) NWE BARGES SWAP FUTURES (NY-7H - CME) vs MONT BELVIEU ETHANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-C0 - CME)						
Spread Credit Rate	New	+2:-15			30%	30%
GASOLINE EURO-BOB OXY (ARGUS) NWE BARGES SWAP FUTURES (NY-7H) vs. CONWAY PROPANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-8K)						
Spread Credit Rate	Increase	+2:-15	0%	0%	35%	35%
Spread Credit Rate	Increase	+2:-15	0%	0%	35%	35%
GROUP THREE ULSD (PLATTS) SWAP FUTURES (NY-A7 - CME) vs GULF COAST NO. 6 FUEL OIL 3.0% (PLATTS) SWAP FUTURES (NY-MF - CME)						
Spread Credit Rate	Decrease	+1:-1	70%	70%	60%	60%
GULF COAST JET FUEL (PLATTS) CALENDAR SWAP FUTURES (NY-GE - CME) vs BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME)						
Spread Credit Rate	Increase	+1:-1	75%	75%	80%	80%
GULF COAST JET FUEL (PLATTS) CALENDAR SWAP FUTURES (NY-GE - CME) vs BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME)						
Spread Credit Rate	Increase	+1:-1	75%	75%	80%	80%
GULF COAST JET FUEL (PLATTS) CALENDAR SWAP FUTURES (NY-GE - CME) vs BRENT CRUDE OIL PENULTIMATE FINANCIAL FUTURES (NY-BB - CME)						
Spread Credit Rate	Increase	+1:-1	75%	75%	80%	80%
GULF COAST JET FUEL (PLATTS) CALENDAR SWAP FUTURES (NY-GE - CME) vs DUBAI CRUDE OIL (PLATTS) CALENDAR SWAP FUTURES (NY-DC - CME)						
Spread Credit Rate	Increase	+1:-1	75%	75%	80%	80%
GULF COAST JET FUEL (PLATTS) CALENDAR SWAP FUTURES (NY-GE - CME) vs MONT BELVIEU LDH PROPANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-B0 - CME)						
Spread Credit Rate	Increase	+1:-1	35%	35%	50%	50%
GULF COAST NO. 6 FUEL OIL 3.0% (PLATTS) SWAP FUTURES (NY-MF - CME) vs GASOLINE EURO-BOB OXY (ARGUS) NWE BARGES SWAP FUTURES (NY-7H - CME)						
Spread Credit Rate	Increase	+25:-3	65%	65%	72%	72%
GULF COAST NO. 6 FUEL OIL 3.0% (PLATTS) SWAP FUTURES (NY-MF - CME) vs MONT BELVIEU SPOT ETHYLENE IN-WELL (PCW) FUTURES (NY-MBE - CME)						
Spread Credit Rate	New	+1:-2			25%	25%
GULF COAST NO. 6 FUEL OIL 3.0% (PLATTS) SWAP FUTURES (NY-MF - CME) vs NEW YORK HARBOR RESIDUAL FUEL 1.0% (PLATTS) SWAP FUTURES (NY-MM - CME)						
Spread Credit Rate	New	+1:-1			95%	95%
GULF COAST NO. 6 FUEL OIL 3.0% SULFUR (PLATTS) SWAP (NYM-MF - CME) vs NEW YORK HARBOR RESIDUAL FUEL 1.0% SULFUR (PLATTS) SWAP (NYM-MM - CME)						
Spread Credit Rate	Increase	+1:-1	85%	85%	95%	95%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
GULF COAST NO. 6 FUEL OIL 3.0% SULFUR (PLATTS) SWAP (NYM-MF - CME) vs NY HARBOR RBOB (BLENDSTOCK) GAS (NYM-RB, RL, RT)						
Spread Credit Rate	Increase	+1:-1	65%	65%	72%	72%
GULF COAST UNL 87 (PLATTS) CALENDAR SWAP FUTURES (NY-GS - CME) vs SINGAPORE FUEL OIL 380 CST (PLATTS) SWAP FUTURES (NY-SE - CME)						
Spread Credit Rate	Increase	+15:-2	65%	65%	70%	70%
HEATING OIL CALENDAR SWAP FUTURES (NY-MP - CME) vs CONWAY PROPANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-8K - CME)						
Spread Credit Rate	Increase	+1:-1	30%	30%	50%	50%
HEATING OIL CALENDAR SWAP FUTURES (NY-MP - CME) vs MONT BELVIEU ETHANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-C0 - CME)						
Spread Credit Rate	Increase	+1:-1	0%	0%	30%	30%
HEATING OIL CALENDAR SWAP FUTURES (NY-MP - CME) vs OMAN CRUDE OIL (NY-OQ - CME)						
Spread Credit Rate	Increase	+1:-1	70%	70%	80%	80%
HEATING OIL FINANCIAL FUTURES (NY-BH - CME) vs OMAN CRUDE OIL (NY-OQ - CME)						
Spread Credit Rate	Increase	+1:-1	70%	70%	80%	80%
HEATING OIL LAST DAY FINANCIAL FUTURES (NY-23 - CME) vs CRUDE OIL FINANCIAL FUTURES (NY-WS - CME)						
Spread Credit Rate	Increase	+1:-1	82%	82%	84%	84%
HEATING OIL LAST DAY FINANCIAL FUTURES (NY-23 - CME) vs CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-26 - CME)						
Spread Credit Rate	Increase	+1:-1	82%	82%	84%	84%
HEATING OIL LAST DAY FINANCIAL FUTURES (NY-23 - CME) vs LIGHT SWEET CRUDE OIL FUTURES (NY-CL - CME)						
Spread Credit Rate	Increase	+1:-1	82%	82%	84%	84%
HEATING OIL LAST DAY FINANCIAL FUTURES (NY-23 - CME) vs OMAN CRUDE OIL (NY-OQ - CME)						
Spread Credit Rate	Increase	+1:-1	70%	70%	80%	80%
HEATING OIL LAST DAY FINANCIAL FUTURES (NY-23 - CME) vs RBOB GASOLINE CALENDAR SWAP FUTURES (NY-RL - CME)						
Spread Credit Rate	Increase	+1:-1	82%	82%	84%	84%
Spread Credit Rate	Increase	+1:-1	80%	80%	83%	83%
HEATING OIL LAST DAY FINANCIAL FUTURES (NY-23 - CME) vs RBOB GASOLINE FINANCIAL FUTURES (NY-RT - CME)						
Spread Credit Rate	Increase	+1:-1	82%	82%	84%	84%
Spread Credit Rate	Increase	+1:-1	80%	80%	83%	83%
HEATING OIL LAST DAY FINANCIAL FUTURES (NY-23 - CME) vs RBOB GASOLINE FUTURES (NY-RB - CME)						
Spread Credit Rate	Increase	+1:-1	82%	82%	84%	84%
Spread Credit Rate	Increase	+1:-1	80%	80%	83%	83%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
HEATING OIL LAST DAY FINANCIAL FUTURES (NY-23 - CME) vs RBOB GASOLINE LAST DAY FINANCIAL FUTURES (NY-27 - CME)						
Spread Credit Rate	Increase	+1:-1	82%	82%	84%	84%
Spread Credit Rate	Increase	+1:-1	80%	80%	83%	83%
JAPAN C&F NAPHTHA (PLATTS) SWAP FUTURES (NY-JA - CME) vs GULF COAST NO. 6 FUEL OIL 3.0% (PLATTS) SWAP FUTURES (NY-MF - CME)						
Spread Credit Rate	Decrease	+1:-9	75%	75%	60%	60%
JAPAN C&F NAPHTHA (PLATTS) SWAP FUTURES (NY-JA - CME) vs SINGAPORE MOGAS 95 UNLEADED (PLATTS) SWAP FUTURES (NY-V0 - CME)						
Spread Credit Rate	Increase	+1:-9	50%	50%	75%	75%
LIGHT SWEET CRUDE OIL FUTURES (NY-CL - CME) vs HEATING OIL CALENDAR SWAP FUTURES (NY-MP - CME)						
Spread Credit Rate	Increase	+1:-1	82%	82%	84%	84%
LIGHT SWEET CRUDE OIL FUTURES (NY-CL - CME) vs SINGAPORE FUEL OIL 380 CST (PLATTS) SWAP FUTURES (NY-SE - CME)						
Spread Credit Rate	Increase	+19:-3	80%	80%	83%	83%
LIGHT, SWEET CRUDE OIL FUTURES (NYM-CL, CS, WS) vs HEATING OIL FINANCIAL FUTURES (NYM-HO, BH, MP)						
Spread Credit Rate	Increase	+1:-1	82%	82%	84%	84%
LIGHT, SWEET CRUDE OIL FUTURES (NYM-CL, CS, WS) vs NEW YORK HARBOR RESIDUAL FUEL 1.0% SULFUR (PLATTS) SWAP (NYM-MM - CME)						
Spread Credit Rate	Increase	+1:-1	75%	75%	82%	82%
MONT BELVIEU ETHANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-C0 - CME) vs SINGAPORE MOGAS 92 UNLEADED (PLATTS) SWAP FUTURES (NY-1N - CME)						
Spread Credit Rate	New	+1:-1			30%	30%
MONT BELVIEU ISO-BUTANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-8I) vs. SINGAPORE MOGAS 92 UNLEADED (PLATTS) SWAP FUTURES (NY-1N)						
Spread Credit Rate	Increase	+1:-1	35%	35%	55%	55%
Spread Credit Rate	Increase	+1:-1	35%	35%	55%	55%
MONT BELVIEU NORMAL BUTANE LDH (OPIS) SWAP FUTURES (NY-MNB - CME) vs GULF COAST NO. 6 FUEL OIL 3.0% (PLATTS) SWAP FUTURES (NY-MF - CME)						
Spread Credit Rate	Decrease	+1:-1	45%	45%	25%	25%
NEW YORK HARBOR NO. 2 HEATING OIL FUTURES (NY-HO - CME) vs OMAN CRUDE OIL (NY-OQ - CME)						
Spread Credit Rate	Increase	+1:-1	70%	70%	80%	80%
NEW YORK HARBOR NO. 2 HEATING OIL FUTURES (NY-HO, MP, BH) vs CONWAY PROPANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-8K - CME)						
Spread Credit Rate	Increase	+1:-1	30%	30%	50%	50%
NEW YORK HARBOR NO. 2 HEATING OIL FUTURES (NY-HO, MP, BH) vs MONT BELVIEU ETHANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-C0 - CME)						
Spread Credit Rate	Increase	+1:-1	0%	0%	30%	30%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
NEW YORK HARBOR RESIDUAL FUEL 1.0% (PLATTS) SWAP FUTURES (NY-MM - CME) vs RBOB GASOLINE FINANCIAL FUTURES (NY-RT - CME)						
Spread Credit Rate	Decrease	+1:-1	75%	75%	65%	65%
NY HARBOR RBOB (BLENDSTOCK) GAS (NYM-RB, RL, RT) vs NEW YORK HARBOR RESIDUAL FUEL 1.0% SULFUR (PLATTS) SWAP (NYM-MM - CME)						
Spread Credit Rate	Decrease	+1:-1	70%	70%	65%	65%
NY HARBOR RBOB GASOLINE (NYM-RB, RL, RT) vs HEATING OIL FINANCIAL FUTURES (NYM-HO, BH, MP)						
Spread Credit Rate	Increase	+1:-1	80%	80%	83%	83%
Spread Credit Rate	Increase	+1:-1	82%	82%	84%	84%
NY HARBOR RBOB GASOLINE (NYM-RB, RL, RT) vs LIGHT, SWEET CRUDE OIL FUTURES (NYM-CL, CS, WS)						
Spread Credit Rate	Increase	+1:-1	80%	80%	83%	83%
OMAN CRUDE OIL (NY-OQ - CME) vs GULF COAST NO. 6 FUEL OIL 3.0% (PLATTS) SWAP FUTURES (NY-MF - CME)						
Spread Credit Rate	Increase	+1:-1	75%	75%	80%	80%
PROPANE NON-LDH MONT BELVIEU (OPIS) SWAP FUTURES (NY-1R - CME) vs GULF COAST NO. 6 FUEL OIL 3.0% (PLATTS) SWAP FUTURES (NY-MF - CME)						
Spread Credit Rate	Decrease	+1:-1	50%	50%	40%	40%
PROPANE NON-LDH MONT BELVIEU (OPIS) SWAP FUTURES (NY-1R - CME) vs SINGAPORE FUEL OIL 380 CST (PLATTS) SWAP FUTURES (NY-SE - CME)						
Spread Credit Rate	Decrease	+19:-3	50%	50%	40%	40%
PROPANE NON-LDH MONT BELVIEU (OPIS) SWAP FUTURES (NY-1R - CME) vs SINGAPORE GASOIL (PLATTS) SWAP FUTURES (NY-SG - CME)						
Spread Credit Rate	Increase	+1:-1	30%	30%	45%	45%
RBOB GASOLINE CALENDAR SWAP FUTURES (NY-RL - CME) vs GULF COAST JET FUEL (PLATTS) CALENDAR SWAP FUTURES (NY-MF - CME)						
Spread Credit Rate	Increase	+1:-1	65%	65%	72%	72%
RBOB GASOLINE CALENDAR SWAP FUTURES (NY-RL - CME) vs GULF COAST NO. 6 FUEL OIL 3.0% (PLATTS) SWAP FUTURES (NY-MF - CME)						
Spread Credit Rate	Increase	+1:-1	65%	65%	72%	72%
RBOB GASOLINE CALENDAR SWAP FUTURES (NY-RL - CME) vs HEATING OIL CALENDAR SWAP FUTURES (NY-MP - CME)						
Spread Credit Rate	Increase	+1:-1	82%	82%	84%	84%
RBOB GASOLINE CALENDAR SWAP FUTURES (NY-RL - CME) vs LIGHT SWEET CRUDE OIL FUTURES (NY-CL - CME)						
Spread Credit Rate	Increase	+1:-1	76%	76%	83%	83%
RBOB GASOLINE CALENDAR SWAP FUTURES (NY-RL - CME) vs MONT BELVIEU ETHANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-C0 - CME)						
Spread Credit Rate	Increase	+1:-1	30%	30%	45%	45%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
RBOB GASOLINE CALENDAR SWAP FUTURES (NY-RL - CME) vs NEW YORK HARBOR NO. 2 HEATING OIL FUTURES (NY-HO - CME)						
Spread Credit Rate	Increase	+1:-1	80%	80%	83%	83%
Spread Credit Rate	Increase	+1:-1	82%	82%	84%	84%
RBOB GASOLINE CALENDAR SWAP FUTURES (NY-RL - CME) vs NEW YORK HARBOR RESIDUAL FUEL 1.0% (PLATTS) SWAP FUTURES (NY-MM - CME)						
Spread Credit Rate	Decrease	+1:-1	75%	75%	65%	65%
RBOB GASOLINE CALENDAR SWAP FUTURES (NY-RL - CME) vs WTI CALENDAR SWAP FUTURES (NY-CS - CME)						
Spread Credit Rate	Increase	+1:-1	76%	76%	83%	83%
RBOB GASOLINE FINANCIAL FUTURES (NY-RT - CME) vs GULF COAST NO. 6 FUEL OIL 3.0% (PLATTS) SWAP FUTURES (NY-MF - CME)						
Spread Credit Rate	Increase	+1:-1	65%	65%	72%	72%
RBOB GASOLINE FUTURES (NY-RB - CME) vs HEATING OIL CALENDAR SWAP FUTURES (NY-MP - CME)						
Spread Credit Rate	Increase	+1:-1	82%	82%	84%	84%
RBOB GASOLINE FUTURES (NY-RB - CME) vs WTI CALENDAR SWAP FUTURES (NY-CS - CME)						
Spread Credit Rate	Increase	+1:-1	76%	76%	83%	83%
RBOB GASOLINE FUTURES (NY-RB, RL, RT) vs CONWAY NORMAL BUTANE (OPIS) SWAP FUTURES (NY-8M - CME)						
Spread Credit Rate	Increase	+1:-1	30%	30%	45%	45%
RBOB GASOLINE FUTURES (NY-RB, RL, RT) vs MONT BELVIEU ETHANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-C0 - CME)						
Spread Credit Rate	Increase	+1:-1	0%	0%	45%	45%
RBOB GASOLINE FUTURES (NY-RB, RL, RT) vs MONT BELVIEU LDH PROPANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-B0 - CME)						
Spread Credit Rate	Increase	+1:-1	45%	45%	55%	55%
RBOB GASOLINE LAST DAY FINANCIAL FUTURES (NY-27 - CME) vs GULF COAST NO. 6 FUEL OIL 3.0% (PLATTS) SWAP FUTURES (NY-MF - CME)						
Spread Credit Rate	Increase	+1:-1	65%	65%	72%	72%
SINGAPORE FUEL OIL 180 CST (PLATTS) CALENDAR SWAP FUTURES (NY-UA - CME) vs SINGAPORE MOGAS 95 UNLEADED (PLATTS) SWAP FUTURES (NY-V0 - CME)						
Spread Credit Rate	Increase	+5:-33	50%	50%	65%	65%
SINGAPORE FUEL OIL 380 CST (PLATTS) SWAP FUTURES (NY-SE - CME) vs DATED BRENT (PLATTS) CALENDAR SWAP FUTURES (NY-UB - CME)						
Spread Credit Rate	Increase	+3:-19	75%	75%	80%	80%
SINGAPORE FUEL OIL 380 CST (PLATTS) SWAP FUTURES (NY-SE - CME) vs NEW YORK HARBOR RESIDUAL FUEL 1.0% (PLATTS) SWAP FUTURES (NY-MM - CME)						
Spread Credit Rate	Increase	+2:-15	80%	80%	87%	87%
SINGAPORE FUEL OIL 380 CST (PLATTS) SWAP FUTURES (NY-SE - CME) vs SINGAPORE FUEL OIL 180 CST (PLATTS) CALENDAR SWAP FUTURES (NY-UA - CME)						
Spread Credit Rate	New	+1:-1			95%	95%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
SINGAPORE GASOIL (PLATTS) SWAP FUTURES (NY-SG - CME) vs CHICAGO ETHANOL (PLATTS) SWAP FUTURES (NY-CU - CME)						
Spread Credit Rate	New	+1:-1			40%	40%
SINGAPORE GASOIL (PLATTS) SWAP FUTURES (NY-SG - CME) vs EIA FLAT TAX ON-HIGHWAY DIESEL SWAP FUTURES (NY-A5 - CME)						
Spread Credit Rate	Increase	+1:-1	55%	55%	70%	70%
SINGAPORE GASOIL (PLATTS) SWAP FUTURES (NY-SG - CME) vs MONT BELVIEU LDH PROPANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-B0 - CME)						
Spread Credit Rate	Increase	+1:-1	25%	25%	50%	50%
SINGAPORE GASOIL (PLATTS) SWAP FUTURES (NY-SG - CME) vs OMAN CRUDE OIL (NY-OQ - CME)						
Spread Credit Rate	Increase	+1:-1	50%	50%	70%	70%
SINGAPORE MOGAS 92 UNLEADED (PLATTS) SWAP FUTURES (NY-1N - CME) vs EUROPEAN 3.5% FUEL OIL (PLATTS) BARGES FOB RDAM CALENDAR SWAP FUTURES (NY-UV - CME)						
Spread Credit Rate	Increase	+19:-3	60%	60%	65%	65%
SINGAPORE MOGAS 92 UNLEADED (PLATTS) SWAP FUTURES (NY-1N - CME) vs MONT BELVIEU LDH PROPANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-B0 - CME)						
Spread Credit Rate	Increase	+1:-1	40%	40%	50%	50%
SINGAPORE MOGAS 95 UNLEADED (PLATTS) SWAP FUTURES (NY-V0 - CME) vs EUROPEAN 3.5% FUEL OIL (PLATTS) BARGES FOB RDAM CALENDAR SWAP FUTURES (NY-UV - CME)						
Spread Credit Rate	Increase	+15:-2	30%	30%	60%	60%
SINGAPORE MOGAS 95 UNLEADED (PLATTS) SWAP FUTURES (NY-V0 - CME) vs GULF COAST NO. 6 FUEL OIL 3.0% (PLATTS) SWAP FUTURES (NY-MF - CME)						
Spread Credit Rate	Increase	+1:-1	60%	60%	70%	70%
WTI CALENDAR SWAP FUTURES (NY-CS - CME) vs GULF COAST JET FUEL (PLATTS) CALENDAR SWAP FUTURES (NY-GE - CME)						
Spread Credit Rate	Increase	+1:-1	70%	70%	80%	80%
WTI CALENDAR SWAP FUTURES (NY-CS - CME) vs GULF COAST JET FUEL (PLATTS) CALENDAR SWAP FUTURES (NY-GE - CME).						
Spread Credit Rate	Increase	+1:-1	70%	70%	80%	80%
WTI CALENDAR SWAP FUTURES (NY-CS - CME) vs HEATING OIL CALENDAR SWAP FUTURES (NY-MP - CME)						
Spread Credit Rate	Increase	+1:-1	82%	82%	84%	84%
WTI CALENDAR SWAP FUTURES (NY-CS - CME) vs NEW YORK HARBOR RESIDUAL FUEL 1.0% (PLATTS) SWAP FUTURES (NY-MM - CME)						
Spread Credit Rate	Increase	+1:-1	65%	65%	82%	82%
WTI CALENDAR SWAP FUTURES (NY-CS - CME) vs NEW YORK HARBOR RESIDUAL FUEL 1.0% (PLATTS) SWAP FUTURES (NY-MM - CME).						
Spread Credit Rate	Increase	+1:-1	65%	65%	82%	82%
WTI CALENDAR SWAP FUTURES (NY-CS - CME) vs RBOB GASOLINE FINANCIAL FUTURES (NY-RT - CME)						
Spread Credit Rate	Increase	+1:-1	76%	76%	83%	83%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
WTI CALENDAR SWAP FUTURES (NY-CS - CME) vs SINGAPORE FUEL OIL 380 CST (PLATTS) SWAP FUTURES (NY-SE - CME)						
Spread Credit Rate	Increase	+19:-3	80%	80%	83%	83%
WTI CALENDAR SWAP FUTURES (NY-CS - CME) vs SINGAPORE FUEL OIL 380 CST (PLATTS) SWAP FUTURES (NY-SE - CME).						
Spread Credit Rate	Increase	+19:-3	80%	80%	83%	83%
WTI CALENDAR SWAP FUTURES (NY-CS - CME) vs SINGAPORE GASOIL (PLATTS) SWAP FUTURES (NY-SG - CME)						
Spread Credit Rate	Increase	+1:-1	60%	60%	65%	65%
WTI CALENDAR SWAP FUTURES (NY-CS - CME) vs SINGAPORE GASOIL (PLATTS) SWAP FUTURES (NY-SG - CME).						
Spread Credit Rate	Increase	+1:-1	60%	60%	65%	65%