



18-235

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

FROM: CME Clearing

SUBJECT: Performance Bond Requirements

DATE: Thursday, June 07, 2018

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, June 08, 2018.

Current rates as of:

Thursday, June 07, 2018.

In this current advisory there are changes to the Short Option Minimum and/or the Volatility Scan Range. Below are descriptions of what each change affects:

The Short Option Minimum (SOM) is a charge that is applied only to portfolios concentrated in short options that do not generate a minimum margin requirement level when margins are calculated using the normal 16 SPAN scenarios. The SOM charge per short calls or short puts is a percentage of the outright margin on one underlying futures contract.

The volatility scan range is the change in implied volatility that is used in each of SPAN's 16 scenarios.

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
Outright Rates								
CRUDE OIL SPREADS - Outright Rates								
WESTERN CANADIAN SELECT OIL MONTHLY (WCW)								
WCW	Spec	Mnth 1	Increase	USD	3,300	3,000	3,850	3,500
WCW	Hedge/Member	Mnth 1	Increase	USD	3,000	3,000	3,500	3,500
ELECTRICITY - Outright Rates								
ERCOT NORTH ZONE MCPE 50 MW PEAK CALENDAR-DAY SWAP FUTURES (2T)								
2T	Spec	Days 1-8	Increase	USD	28,600	26,000	44,000	40,000
2T	Hedge/Member	Days 1-8	Increase	USD	26,000	26,000	40,000	40,000
ERCOT HSTN 345 KV HUB 5 MW PEAK FUT (I1)								
I1	Spec	Mnth 1	Increase	USD	1,870	1,700	2,640	2,400
I1	Hedge/Member	Mnth 1	Increase	USD	1,700	1,700	2,400	2,400
I1	Spec	Mnth 2	Increase	USD	1,540	1,400	2,200	2,000
I1	Hedge/Member	Mnth 2	Increase	USD	1,400	1,400	2,000	2,000
ERCOT NRTH 345 KV HUB 5 MW PEAK FUT (I5)								
I5	Spec	Mnth 1	Increase	USD	1,265	1,150	1,760	1,600
I5	Hedge/Member	Mnth 1	Increase	USD	1,150	1,150	1,600	1,600
I5	Spec	Mnth 2-3	Increase	USD	1,265	1,150	1,760	1,600
I5	Hedge/Member	Mnth 2-3	Increase	USD	1,150	1,150	1,600	1,600
ERCOT NRTH 345 KV HUB PEAK CLND D (I7)								
I7	Spec	Days 1-8	Increase	USD	2,860	2,600	4,400	4,000
I7	Hedge/Member	Days 1-8	Increase	USD	2,600	2,600	4,000	4,000
GERMAN POWER BASELOAD CAL MONTH FUT (DEB)								
DEB	Spec	Mnth 1	Increase	EUR	1,650	1,500	1,870	1,700
DEB	Hedge/Member	Mnth 1	Increase	EUR	1,500	1,500	1,700	1,700
DEB	Spec	Mnth 2	Increase	EUR	2,090	1,900	2,530	2,300
DEB	Hedge/Member	Mnth 2	Increase	EUR	1,900	1,900	2,300	2,300
DEB	Spec	Mnth 3	Increase	EUR	1,540	1,400	1,815	1,650
DEB	Hedge/Member	Mnth 3	Increase	EUR	1,400	1,400	1,650	1,650
DEB	Spec	Mnths 4-9	Increase	EUR	1,485	1,350	1,760	1,600
DEB	Hedge/Member	Mnths 4-9	Increase	EUR	1,350	1,350	1,600	1,600
DEB	Spec	Mnths 10+	Increase	EUR	1,375	1,250	1,595	1,450
DEB	Hedge/Member	Mnths 10+	Increase	EUR	1,250	1,250	1,450	1,450
GERMAN POWER PEAKLOAD CAL MONTH FUT (DEP)								
DEP	Spec	Mnth 3	Increase	EUR	605	550	770	700
DEP	Hedge/Member	Mnth 3	Increase	EUR	550	550	700	700

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	Mths 2	Increase	USD	2,035	1,850	2,200	2,000
CU	Hedge/Member	Mths 2	Increase	USD	1,850	1,850	2,000	2,000
CU	Spec	Mth 3-7	Increase	USD	1,760	1,600	1,980	1,800
CU	Hedge/Member	Mth 3-7	Increase	USD	1,600	1,600	1,800	1,800

ETHANOL FUTURES (EH)

EH	Spec	Month 1	Increase	USD	1,650	1,500	1,760	1,600
EH	Hedge/Member	Month 1	Increase	USD	1,500	1,500	1,600	1,600
EH	Spec	Month 2	Increase	USD	1,485	1,350	1,540	1,400
EH	Hedge/Member	Month 2	Increase	USD	1,350	1,350	1,400	1,400
EH	Spec	Month 3+	Increase	USD	1,210	1,100	1,375	1,250
EH	Hedge/Member	Month 3+	Increase	USD	1,100	1,100	1,250	1,250

NEW YORK ETHANOL FUT (EZ)

EZ	Spec	Mths 3-7	Increase	USD	2,200	2,000	2,420	2,200
EZ	Hedge/Member	Mths 3-7	Increase	USD	2,000	2,000	2,200	2,200
EZ	Spec	Mnths 8+	Increase	USD	2,200	2,000	2,420	2,200
EZ	Hedge/Member	Mnths 8+	Increase	USD	2,000	2,000	2,200	2,200

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

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

INTEREST RATES - Outright Rates

ONE MONTH EURODOLLAR FUTURES (EM)

EM	Spec	Mnth 5+	Increase	USD	286	260	330	300
EM	Hedge/Member	Mnth 5+	Increase	USD	260	260	300	300

THREE-MONTH SOFR FUTURES (SR3)

SR3	Spec	Month 2	Increase	USD	253	230	308	280
SR3	Hedge/Member	Month 2	Increase	USD	230	230	280	280
SR3	Spec	Month 3	Increase	USD	253	230	424	385
SR3	Hedge/Member	Month 3	Increase	USD	230	230	385	385
SR3	Spec	Months 4-5	Increase	USD	440	400	523	475
SR3	Hedge/Member	Months 4-5	Increase	USD	400	400	475	475
SR3	Spec	Months 6-8	Increase	USD	440	400	611	555
SR3	Hedge/Member	Months 6-8	Increase	USD	400	400	555	555
SR3	Spec	Months 9-12	Increase	USD	578	525	655	595
SR3	Hedge/Member	Months 9-12	Increase	USD	525	525	595	595
SR3	Spec	Months 13-16	Increase	USD	649	590	677	615
SR3	Hedge/Member	Months 13-16	Increase	USD	590	590	615	615

PETROLEUM CRACKS AND SPREADS - Outright Rates

NY 3% FUEL OIL V GULF COAST NO6 3% (FOC)

FOC	Spec	Increase	USD	330	300	440	400
FOC	Hedge/Member	Increase	USD	300	300	400	400

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
COAL - Inter-commodity Spread Rates						
NY 3.0% FUEL OIL (PLATTS) SWAP FUTURES (NY-H1 - CME) vs COAL (API 4) FOB RICHARDS BAY (ARGUS/MCCLOSKEY) SWAP FUTURES (NY-MFF - CME)						
Spread Credit Rate	New	+1:-1			20%	20%
1% FUEL OIL (PLATTS) CARGOES CIF MED SWAP FUTURES (NY-1W - CME) vs COAL (API 4) FOB RICHARDS BAY (ARGUS/MCCLOSKEY) SWAP FUTURES (NY-MFF - CME)						
Spread Credit Rate	Increase	+2:-15	25%	25%	30%	30%
Spread Credit Rate	Increase	+15:-2	25%	25%	30%	30%
BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME) vs COAL (API 2) CIF ARA (ARGUS/MCCLOSKEY) SWAP FUTURES (NY-MTF - CME)						
Spread Credit Rate	Increase	+1:-1	30%	30%	45%	45%
BRENT CRUDE OIL PENULTIMATE FINANCIAL FUTURES (NY-BB - CME) vs COAL (API 4) FOB RICHARDS BAY (ARGUS/MCCLOSKEY) SWAP FUTURES (NY-MFF - CME)						
Spread Credit Rate	Increase	+1:-1	35%	35%	40%	40%
COAL (API 2) CIF ARA (ARGUS/MCCLOSKEY) SWAP FUTURES (NY-MTF - CME) vs 1% FUEL OIL (PLATTS) CARGOES CIF MED SWAP FUTURES (NY-1W - CME)						
Spread Credit Rate	Decrease	+2:-15	20%	20%	10%	10%
COAL (API 2) CIF ARA (ARGUS/MCCLOSKEY) SWAP FUTURES (NY-MTF - CME) vs ARGUS PROPANE FAR EAST INDEX SWAP FUTURES (NY-7E - CME)						
Spread Credit Rate	Increase	+5:-1	25%	25%	30%	30%
COAL (API 2) CIF ARA (ARGUS/MCCLOSKEY) SWAP FUTURES (NY-MTF - CME) vs EUROPEAN GASOIL (ICE) SWAP FUTURES (NY-GX - CME)						
Spread Credit Rate	Decrease	+1:-1	40%	40%	0%	0%
COAL (API 2) CIF ARA (ARGUS/MCCLOSKEY) SWAP FUTURES (NY-MTF - CME) vs JAPAN C&F NAPHTHA (PLATTS) SWAP FUTURES (NY-JA - CME)						
Spread Credit Rate	Decrease	+9:-1	30%	30%	20%	20%
COAL (API 2) CIF ARA (ARGUS/MCCLOSKEY) SWAP FUTURES (NY-MTF - CME) vs LIGHT SWEET CRUDE OIL FUTURES (NY-CL - CME)						
Spread Credit Rate	Increase	+1:-1	35%	35%	45%	45%
COAL (API 2) CIF ARA (ARGUS/MCCLOSKEY) SWAP FUTURES (NY-MTF - CME) vs SINGAPORE FUEL OIL 380 CST (PLATTS) SWAP FUTURES (NY-SE - CME)						
Spread Credit Rate	Increase	+6:-1	25%	25%	30%	30%
COAL (API 4) FOB RICHARDS BAY (ARGUS/MCCLOSKEY) SWAP FUTURES (NY-MFF - CME) vs ARGUS PROPANE FAR EAST INDEX SWAP FUTURES (NY-7E - CME)						
Spread Credit Rate	Increase	+5:-1	25%	25%	30%	30%
COAL (API 4) FOB RICHARDS BAY (ARGUS/MCCLOSKEY) SWAP FUTURES (NY-MFF - CME) vs DATED BRENT (PLATTS) CALENDAR SWAP FUTURES (NY-UB - CME)						
Spread Credit Rate	Increase	+1:-1	30%	30%	40%	40%
COAL (API 4) FOB RICHARDS BAY (ARGUS/MCCLOSKEY) SWAP FUTURES (NY-MFF - CME) vs DUBAI CRUDE OIL (PLATTS) CALENDAR SWAP FUTURES (NY-DC - CME)						

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
Spread Credit Rate	Increase	+1:-1	20%	20%	35%	35%
COAL (API 4) FOB RICHARDS BAY (ARGUS/MCCLOSKEY) SWAP FUTURES (NY-MFF - CME) vs GULF COAST JET FUEL (PLATTS) CALENDAR SWAP FUTURES (NY-GE - CME)						
Spread Credit Rate	Increase	+1:-1	25%	25%	30%	30%
COAL (API 4) FOB RICHARDS BAY (ARGUS/MCCLOSKEY) SWAP FUTURES (NY-MFF - CME) vs INDONESIAN COAL (MCCLOSKEY SUB-BITUMINOUS) SWAP FUTURES (NY-MCC - CME)						
Spread Credit Rate	Decrease	+1:-1	30%	30%	0%	0%
COAL (API 4) FOB RICHARDS BAY (ARGUS/MCCLOSKEY) SWAP FUTURES (NY-MFF - CME) vs LIGHT SWEET CRUDE OIL FUTURES (NY-CL - CME)						
Spread Credit Rate	Increase	+1:-1	25%	25%	45%	45%
COAL (API 4) FOB RICHARDS BAY (ARGUS/MCCLOSKEY) SWAP FUTURES (NY-MFF - CME) vs SINGAPORE FUEL OIL 180 CST (PLATTS) CALENDAR SWAP FUTURES (NY-UA - CME)						
Spread Credit Rate	Increase	+6:-1	25%	25%	40%	40%
COAL (API 4) FOB RICHARDS BAY (ARGUS/MCCLOSKEY) SWAP FUTURES (NY-MFF - CME) vs SINGAPORE FUEL OIL 380 CST (PLATTS) SWAP FUTURES (NY-SE - CME)						
Spread Credit Rate	Increase	+6:-1	25%	25%	35%	35%
COAL (API 5) FOB NEWCASTLE (ARGUS/MCCLOSKEY) FUTURES (NY-ACM - CME) vs INDONESIAN COAL (MCCLOSKEY SUB-BITUMINOUS) SWAP FUTURES (NY-MCC - CME)						
Spread Credit Rate	Decrease	+1:-1	30%	30%	0%	0%
COAL (API 8) CFR SOUTH CHINA (ARGUS/MCCLOSKEY) SWAP FUTURES (NY-SSI - CME) vs INDONESIAN COAL (MCCLOSKEY SUB-BITUMINOUS) SWAP FUTURES (NY-MCC - CME)						
Spread Credit Rate	Decrease	+1:-1	30%	30%	0%	0%
COAL API4 RCH BAY ARGS MCCLOSKEY FUT (NY-MTF - CME) vs COAL API2 CIF ARA ARG-MCCLOSKEY FUT (NY-MFF - CME): MTF Months 1 vs MFF Month 1						
Spread Credit Rate	Increase	+1:-1	55%	55%	60%	60%
COAL API4 RCH BAY ARGS MCCLOSKEY FUT (NY-MTF - CME) vs COAL API2 CIF ARA ARG-MCCLOSKEY FUT (NY-MFF - CME): MTF Months 2 - 5 vs MFF Months 2 - 5						
Spread Credit Rate	Increase	+1:-1	60%	60%	65%	65%
COAL API4 RCH BAY ARGS MCCLOSKEY FUT (NY-MTF - CME) vs COAL API2 CIF ARA ARG-MCCLOSKEY FUT (NY-MFF - CME): MTF Months 2 - 5 vs MFF Months 6+						
Spread Credit Rate	Increase	+1:-1	55%	55%	60%	60%
COAL API4 RCH BAY ARGS MCCLOSKEY FUT (NY-MTF - CME) vs COAL API2 CIF ARA ARG-MCCLOSKEY FUT (NY-MFF - CME): MTF Months 6+ vs MFF Months 2 - 5						
Spread Credit Rate	Increase	+1:-1	55%	55%	60%	60%
COAL API4 RCH BAY ARGS MCCLOSKEY FUT (NY-MTF - CME) vs COAL API2 CIF ARA ARG-MCCLOSKEY FUT (NY-MFF - CME): MTF Months 6+ vs MFF Months 6+						
Spread Credit Rate	Increase	+1:-1	60%	60%	65%	65%
DUTCH TTF NATURAL GAS (USD/MMBTU) (ICIS HEREN) FRONT MONTH FUTURES (NY-TTE - CME) vs COAL (API 4) FOB RICHARDS BAY (ARGUS/MCCLOSKEY) SWAP FUTURES (NY-MFF - CME)						
Spread Credit Rate	Decrease	+1:-1	40%	40%	30%	30%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
DUTCH TTF NATURAL GAS CALENDAR MONTH FUTURES (NY-TTF - CME) vs COAL (API 2) CIF ARA (ARGUS/MCCLOSKEY) SWAP FUTURES (NY-MTF - CME)						
Spread Credit Rate	Decrease	+11:-1	50%	50%	40%	40%
Spread Credit Rate	Decrease	+11:-1	57%	57%	52%	52%
Spread Credit Rate	Decrease	+11:-1	58%	58%	55%	55%
DUTCH TTF NATURAL GAS CALENDAR MONTH FUTURES (NY-TTF - CME) vs COAL (API 4) FOB RICHARDS BAY (ARGUS/MCCLOSKEY) SWAP FUTURES (NY-MFF - CME)						
Spread Credit Rate	Decrease	+11:-1	47%	47%	42%	42%
Spread Credit Rate	New	+11:-1			35%	35%
Spread Credit Rate	Decrease	+11:-1	40%	40%	38%	38%
GULF COAST JET FUEL (PLATTS) CALENDAR SWAP FUTURES (NY-GE - CME) vs COAL (API 2) CIF ARA (ARGUS/MCCLOSKEY) SWAP FUTURES (NY-MTF - CME)						
Spread Credit Rate	Decrease	+1:-1	30%	30%	21%	21%
IN DELIVERY MONTH EUROPEAN UNION ALLOWANCE (EUA) FUTURES (NY-6T - CME) vs COAL (API 2) CIF ARA (ARGUS/MCCLOSKEY) SWAP FUTURES (NY-MTF - CME)						
Spread Credit Rate	Decrease	+10:-1	50%	50%	30%	30%
IN DELIVERY MONTH EUROPEAN UNION ALLOWANCE (EUA) FUTURES (NY-6T - CME) vs COAL (API 4) FOB RICHARDS BAY (ARGUS/MCCLOSKEY) SWAP FUTURES (NY-MFF - CME)						
Spread Credit Rate	Decrease	+10:-1	40%	40%	30%	30%
NY 3.0% FUEL OIL (PLATTS) SWAP FUTURES (NY-H1 - CME) vs COAL (API 2) CIF ARA (ARGUS/MCCLOSKEY) SWAP FUTURES (NY-MTF - CME)						
Spread Credit Rate	New	+1:-1			20%	20%
NY-MFF vs NY-9N						
Spread Credit Rate	Increase	+5:-1	30%	30%	40%	40%
PREMIUM UNLEADED GASOLINE 10 PPM (PLATTS) FOB MED SWAP FUTURES (NY-3G - CME) vs COAL (API 2) CIF ARA (ARGUS/MCCLOSKEY) SWAP FUTURES (NY-MTF - CME)						
Spread Credit Rate	Increase	+2:-15	25%	25%	30%	30%
Spread Credit Rate	Increase	+15:-2	25%	25%	30%	30%
PREMIUM UNLEADED GASOLINE 10 PPM (PLATTS) FOB MED SWAP FUTURES (NY-3G - CME) vs COAL (API 4) FOB RICHARDS BAY (ARGUS/MCCLOSKEY) SWAP FUTURES (NY-MFF - CME)						
Spread Credit Rate	Increase	+2:-15	25%	25%	30%	30%
Spread Credit Rate	Increase	+15:-2	25%	25%	30%	30%
UK NBP NATURAL GAS (USD/MMBTU) (ICIS HEREN) FRONT MONTH FUTURES (NY-NBP - CME) vs COAL (API 2) CIF ARA (ARGUS/MCCLOSKEY) SWAP FUTURES (NY-MTF - CME)						
Spread Credit Rate	Decrease	+1:-1	45%	45%	40%	40%
Spread Credit Rate	Decrease	+1:-1	40%	40%	35%	35%
UK NBP NATURAL GAS (USD/MMBTU) (ICIS HEREN) FRONT MONTH FUTURES (NY-NBP - CME) vs COAL (API 4) FOB RICHARDS BAY (ARGUS/MCCLOSKEY) SWAP FUTURES (NY-MFF - CME)						
Spread Credit Rate	Decrease	+1:-1	35%	35%	30%	30%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
UK NBP NATURAL GAS CALENDAR MONTH FUTURES (NY-UKG - CME) vs COAL (API 2) CIF ARA (ARGUS/MCCLOSKEY) SWAP FUTURES (NY-MTF - CME)						
Spread Credit Rate	Decrease	+10:-1	46%	46%	40%	40%
Spread Credit Rate	Decrease	+10:-1	48%	48%	44%	44%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
CRUDE OIL - Inter-commodity Spread Rates						
1% FUEL OIL (PLATTS) CARGOES CIF MED SWAP FUTURES (NY-1W - CME) vs BRENT CRUDE OIL PENULTIMATE FINANCIAL FUTURES (NY-BB - CME)						
Spread Credit Rate	Decrease	+2:-15	80%	80%	75%	75%
1% FUEL OIL (PLATTS) CARGOES CIF MED SWAP FUTURES (NY-1W - CME) vs DATED BRENT (PLATTS) CALENDAR SWAP FUTURES (NY-UB - CME)						
Spread Credit Rate	Decrease	+3:-19	80%	80%	77%	77%
1% FUEL OIL (PLATTS) CARGOES CIF MED SWAP FUTURES (NY-1W - CME) vs LIGHT SWEET CRUDE OIL FUTURES (NY-CL - CME)						
Spread Credit Rate	Decrease	+3:-19	76%	76%	74%	74%
BRENT CRUDE OIL BULLET SWAP FINANCIAL (NYM-BB, BZ, CY) vs EUROPEAN 3.5% FUEL OIL ROTTERDAM BALMO CALENDAR SWAP (NYM-UV - CME)						
Spread Credit Rate	Decrease	+19:-3	82%	82%	78%	78%
Spread Credit Rate	Decrease	+19:-3	85%	85%	83%	83%
BRENT CRUDE OIL BULLET SWAP FINANCIAL (NYM-BB, BZ, CY) vs JAPAN C&F NAPHTHA (PLATTS) SWAP (NYM-JA - CME)						
Spread Credit Rate	Decrease	+9:-1	83%	83%	80%	80%
BRENT CRUDE OIL BULLET SWAP FINANCIAL (NYM-BB, BZ, CY) vs SINGAPORE 380CST FUEL OIL (PLATTS) SWAP (NYM-SE - CME)						
Spread Credit Rate	Decrease	+19:-3	81%	81%	76%	76%
BRENT CRUDE OIL BULLET SWAP FINANCIAL (NYM-BB, BZ, CY) vs SINGAPORE FUEL OIL 180CST CALENDAR SWAP (NYM-UA - CME)						
Spread Credit Rate	Decrease	+33:-5	78%	78%	75%	75%
Spread Credit Rate	Decrease	+33:-5	80%	80%	78%	78%
BRENT CRUDE OIL BULLET SWAP FINANCIAL (NYM-BB, BZ, CY) vs SINGAPORE JET KEROSENE SWAP (NYM-KS - CME)						
Spread Credit Rate	Increase	+1:-1	55%	55%	58%	58%
BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME) vs COAL (API 2) CIF ARA (ARGUS/MCCLOSKEY) SWAP FUTURES (NY-MTF - CME)						
Spread Credit Rate	Increase	+1:-1	30%	30%	45%	45%
BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME) vs EUROPEAN GASOIL BULLET SWAP FUTURES (NY-BG - CME)						
Spread Credit Rate	Decrease	+15:-2	75%	75%	70%	70%
Spread Credit Rate	Decrease	+15:-2	72%	72%	68%	68%
BRENT CRUDE OIL PENULTIMATE FINANCIAL FUTURES (NY-BB - CME) vs COAL (API 4) FOB RICHARDS BAY (ARGUS/MCCLOSKEY) SWAP FUTURES (NY-MFF - CME)						
Spread Credit Rate	Increase	+1:-1	35%	35%	40%	40%
BRENT CRUDE OIL PENULTIMATE FINANCIAL FUTURES (NY-BB - CME) vs EUROPEAN 3.5% FUEL OIL (PLATTS) BARGES FOB RDAM CALENDAR SWAP FUTURES (NY-UV - CME)						
Spread Credit Rate	Decrease	+19:-3	85%	85%	83%	83%

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 EUROPEAN JET KEROSENE (PLATTS) CARGOES CIF NWE CALENDAR SWAP FUTURES (NY-UJ - CME)						
Spread Credit Rate	Increase	+8:-1	60%	60%	62%	62%
BRENT CRUDE OIL PENULTIMATE FINANCIAL FUTURES (NY-BB - CME) vs GULF COAST NO. 6 FUEL OIL 3.0% (PLATTS) SWAP FUTURES (NY-MF - CME)						
Spread Credit Rate	Decrease	+1:-1	80%	80%	78%	78%
Spread Credit Rate	Decrease	+1:-1	85%	85%	83%	83%
BRENT CRUDE OIL PENULTIMATE FINANCIAL FUTURES (NY-BB - CME) vs NEW YORK HARBOR RESIDUAL FUEL 1.0% (PLATTS) SWAP FUTURES (NY-MM - CME)						
Spread Credit Rate	Decrease	+1:-1	80%	80%	77%	77%
BRENT CRUDE OIL PENULTIMATE FINANCIAL FUTURES (NY-BB - CME) vs NY 3.0% FUEL OIL (PLATTS) SWAP FUTURES (NY-H1 - CME)						
Spread Credit Rate	Decrease	+1:-1	80%	80%	76%	76%
BRENT CRUDE OIL PENULTIMATE FINANCIAL FUTURES (NY-BB, BZ, CY) vs GASOIL 0.1 (PLATTS) BARGES FOB RDAM SWAP FUTURES (NY-VL - CME)						
Spread Credit Rate	Decrease	+15:-2	65%	65%	60%	60%
COAL (API 2) CIF ARA (ARGUS/MCCLOSKEY) SWAP FUTURES (NY-MTF - CME) vs LIGHT SWEET CRUDE OIL FUTURES (NY-CL - CME)						
Spread Credit Rate	Increase	+1:-1	35%	35%	45%	45%
COAL (API 4) FOB RICHARDS BAY (ARGUS/MCCLOSKEY) SWAP FUTURES (NY-MFF - CME) vs DATED BRENT (PLATTS) CALENDAR SWAP FUTURES (NY-UB - CME)						
Spread Credit Rate	Increase	+1:-1	30%	30%	40%	40%
COAL (API 4) FOB RICHARDS BAY (ARGUS/MCCLOSKEY) SWAP FUTURES (NY-MFF - CME) vs DUBAI CRUDE OIL (PLATTS) CALENDAR SWAP FUTURES (NY-DC - CME)						
Spread Credit Rate	Increase	+1:-1	20%	20%	35%	35%
COAL (API 4) FOB RICHARDS BAY (ARGUS/MCCLOSKEY) SWAP FUTURES (NY-MFF - CME) vs LIGHT SWEET CRUDE OIL FUTURES (NY-CL - CME)						
Spread Credit Rate	Increase	+1:-1	25%	25%	45%	45%
DATED BRENT (PLATTS) CALENDAR SWAP FUTURES (NY-UB - CME) vs SINGAPORE GASOIL (PLATTS) SWAP FUTURES (NY-SG - CME)						
Spread Credit Rate	Increase	+1:-1	54%	54%	65%	65%
DATED BRENT (PLATTS) CALENDAR SWAP FUTURES (NY-UB - CME) vs SINGAPORE MOGAS 92 UNLEADED (PLATTS) SWAP FUTURES (NY-1N - CME)						
Spread Credit Rate	Increase	+1:-1	50%	50%	60%	60%
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)						
Spread Credit Rate	Increase	+1:-1	78%	78%	82%	82%
DUBAI CRUDE OIL (PLATTS) CALENDAR SWAP FUTURES (NY-DC - CME) vs JAPAN C&F NAPHTHA (PLATTS) SWAP FUTURES (NY-JA - CME)						
Spread Credit Rate	Decrease	+9:-1	80%	80%	78%	78%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
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%	79%	79%
DUBAI CRUDE OIL (PLATTS) CALENDAR SWAP FUTURES (NY-DC - CME) vs NY 0.3% FUEL OIL HIPR (PLATTS) SWAP FUTURES (NY-8N - CME)						
Spread Credit Rate	Increase	+1:-1	35%	35%	50%	50%
DUBAI CRUDE OIL (PLATTS) CALENDAR SWAP FUTURES (NY-DC - CME) vs NY 3.0% FUEL OIL (PLATTS) SWAP FUTURES (NY-H1 - CME)						
Spread Credit Rate	Decrease	+1:-1	80%	80%	78%	78%
DUBAI CRUDE OIL (PLATTS) CALENDAR SWAP FUTURES (NY-DC - CME) vs SINGAPORE FUEL OIL 380 CST (PLATTS) SWAP FUTURES (NY-SE - CME)						
Spread Credit Rate	Increase	+19:-3	75%	75%	77%	77%
DUBAI CRUDE OIL (PLATTS) CALENDAR SWAP FUTURES (NY-DC - CME) vs SINGAPORE MOGAS 95 UNLEADED (PLATTS) SWAP FUTURES (NY-V0 - CME)						
Spread Credit Rate	Increase	+1:-1	70%	70%	75%	75%
DUBAI CRUDE OIL (PLATTS) CALENDAR SWAP FUTURES (NY-DC - CME) vs SINGAPORE MOGAS 97 UNLEADED (PLATTS) SWAP FUTURES (NY-X0 - CME)						
Spread Credit Rate	Increase	+1:-1	60%	60%	70%	70%
DUBAI CRUDE OIL CALENDAR SWAP (NYM-DC - CME) vs JAPAN C&F NAPHTHA (PLATTS) SWAP (NYM-JA - CME)						
Spread Credit Rate	Decrease	+9:-1	80%	80%	78%	78%
DUBAI CRUDE OIL CALENDAR SWAP (NYM-DC - CME) vs SINGAPORE GASOIL SWAP (NYM-SG - CME)						
Spread Credit Rate	Increase	+1:-1	60%	60%	68%	68%
DUBAI CRUDE OIL CALENDAR SWAP (NYM-DC - CME) vs SINGAPORE JET KEROSENE SWAP (NYM-KS - CME)						
Spread Credit Rate	Increase	+1:-1	55%	55%	59%	59%
DUBAI CRUDE OIL CALENDAR SWAP (NYM-DC - CME) vs SINGAPORE NAPHTHA SWAP (NYM-SP - CME)						
Spread Credit Rate	Decrease	+1:-1	80%	80%	60%	60%
DUTCH TTF NATURAL GAS (USD/MMBTU) (ICIS HEREN) FRONT MONTH FUTURES (NY-TTE - CME) vs BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME)						
Spread Credit Rate	Increase	+1:-2	35%	35%	40%	40%
DUTCH TTF NATURAL GAS (USD/MMBTU) (ICIS HEREN) FRONT MONTH FUTURES (NY-TTE - CME) vs LIGHT SWEET CRUDE OIL FUTURES (NY-CL - CME)						
Spread Credit Rate	Increase	+1:-2	35%	35%	40%	40%
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	70%	70%	75%	75%
EIA FLAT TAX ON-HIGHWAY DIESEL SWAP FUTURES (NY-A5 - CME) vs DATED BRENT (PLATTS) CALENDAR SWAP FUTURES (NY-UB - CME)						
Spread Credit Rate	Increase	+1:-1	70%	70%	74%	74%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
EIA FLAT TAX ON-HIGHWAY DIESEL SWAP FUTURES (NY-A5 - CME) vs DUBAI CRUDE OIL (PLATTS) CALENDAR SWAP FUTURES (NY-DC - CME)						
Spread Credit Rate	Increase	+1:-1	70%	70%	76%	76%
EUROPEAN 3.5% FUEL OIL (PLATTS) BARGES FOB RDAM CALENDAR SWAP FUTURES (NY-UV - CME) vs DUBAI CRUDE OIL (PLATTS) CALENDAR SWAP FUTURES (NY-DC - CME)						
Spread Credit Rate	Increase	+3:-19	78%	78%	80%	80%
EUROPEAN 3.5% FUEL OIL MED CALENDAR SWAP (MEDITERR (NYM-UI - CME) vs LIGHT, SWEET CRUDE OIL FUTURES (NYM-CL, CS, WS)						
Spread Credit Rate	Increase	+3:-19	75%	75%	76%	76%
EUROPEAN GASOIL 10 PPM (PLATTS) BARGES FOB RDAM SWAP FUTURES (NY-GT - CME) vs DATED BRENT (PLATTS) CALENDAR SWAP FUTURES (NY-UB - CME)						
Spread Credit Rate	Increase	+2:-15	50%	50%	55%	55%
EUROPEAN GASOIL 10 PPM (PLATTS) BARGES FOB RDAM SWAP FUTURES (NY-GT - CME) vs DUBAI CRUDE OIL (PLATTS) CALENDAR SWAP FUTURES (NY-DC - CME)						
Spread Credit Rate	Increase	+2:-15	50%	50%	55%	55%
EUROPEAN GASOIL 10 PPM (PLATTS) BARGES FOB RDAM SWAP FUTURES (NY-GT - CME) vs LIGHT SWEET CRUDE OIL FUTURES (NY-CL - CME)						
Spread Credit Rate	Increase	+2:-15	55%	55%	65%	65%
EUROPEAN GASOIL BULLET SWAP FUTURES (NY-BG - CME) vs LIGHT SWEET CRUDE OIL FUTURES (NY-CL - CME)						
Spread Credit Rate	Increase	+2:-15	62%	62%	66%	66%
EUROPEAN JET KERO NWE CALENDAR SWAP (NORTHWEST EUR (NYM-UJ - CME) vs LIGHT, SWEET CRUDE OIL FUTURES (NYM-CL, CS, WS)						
Spread Credit Rate	Increase	+1:-9	50%	50%	53%	53%
EUROPEAN JET KEROSENE (PLATTS) CARGOES CIF NWE CALENDAR SWAP FUTURES (NY-UJ - CME) vs DUBAI CRUDE OIL (PLATTS) CALENDAR SWAP FUTURES (NY-DC - CME)						
Spread Credit Rate	Increase	+1:-9	50%	50%	57%	57%
GASOLINE EURO-BOB OXY (ARGUS) NWE BARGES SWAP FUTURES (NY-7H - CME) vs DATED BRENT (PLATTS) CALENDAR SWAP FUTURES (NY-UB - CME)						
Spread Credit Rate	New	+3:-25			55%	55%
Spread Credit Rate	Increase	+3:-25	50%	50%	62%	62%
GASOLINE EURO-BOB OXY (ARGUS) NWE BARGES SWAP FUTURES (NY-7H - CME) vs DUBAI CRUDE OIL (PLATTS) CALENDAR SWAP FUTURES (NY-DC - CME)						
Spread Credit Rate	Increase	+3:-25	60%	60%	65%	65%
GULF COAST ULSD (PLATTS) SWAP FUTURES (NY-LY - CME) vs BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME)						
Spread Credit Rate	Increase	+1:-1	70%	70%	75%	75%
GULF COAST ULSD (PLATTS) SWAP FUTURES (NY-LY - CME) vs DATED BRENT (PLATTS) CALENDAR SWAP FUTURES (NY-UB - CME)						
Spread Credit Rate	Increase	+1:-1	70%	70%	74%	74%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
GULF COAST ULSD (PLATTS) SWAP FUTURES (NY-LY - CME) vs DUBAI CRUDE OIL (PLATTS) CALENDAR SWAP FUTURES (NY-DC - CME)						
Spread Credit Rate	Increase	+1:-1	70%	70%	77%	77%
LIGHT SWEET CRUDE OIL FUTURES (NY-CL - CME) vs EUROPEAN 1% FUEL OIL (PLATTS) CARGOES FOB NWE CALENDAR SWAP FUTURES (NY-UF - CME)						
Spread Credit Rate	Increase	+19:-3	75%	75%	77%	77%
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	73%	73%	75%	75%
LIGHT SWEET CRUDE OIL FUTURES (NY-CL, CS, WS) vs EIA FLAT TAX ON-HIGHWAY DIESEL SWAP FUTURES (NY-A5 - CME)						
Spread Credit Rate	Increase	+1:-1	70%	70%	74%	74%
LIGHT SWEET CRUDE OIL FUTURES (NY-CL, CS, WS) vs GULF COAST HEATING OIL (ARGUS) SWAP FUTURES (NY-4U - CME)						
Spread Credit Rate	Increase	+1:-1	50%	50%	63%	63%
LIGHT SWEET CRUDE OIL FUTURES (NY-CL, CS, WS) vs GULF COAST ULSD (PLATTS) SWAP FUTURES (NY-LY - CME)						
Spread Credit Rate	Increase	+1:-1	55%	55%	65%	65%
LIGHT SWEET CRUDE OIL FUTURES (NY-CL, CS, WS) vs JAPAN C&F NAPHTHA (Platts) SWAP FUTURES (NY-JA)						
Spread Credit Rate	Increase	+9:-1	73%	73%	76%	76%
LIGHT SWEET CRUDE OIL FUTURES (NY-CL, CS, WS) vs NY JET FUEL (ARGUS) SWAP FUTURES (NY-4Y - CME)						
Spread Credit Rate	Increase	+1:-1	55%	55%	57%	57%
LIGHT, SWEET CRUDE OIL FUTURES (NYM-CL, CS, WS) vs GULF COAST #6 FUEL 3.0% SWAP (NYM-MF - CME)						
Spread Credit Rate	Increase	+1:-1	75%	75%	77%	77%
LIGHT, SWEET CRUDE OIL FUTURES (NYM-CL, CS, WS) vs SINGAPORE GASOIL SWAP (NYM-SG - CME)						
Spread Credit Rate	Increase	+1:-1	60%	60%	71%	71%
LLS (ARGUS) CALENDAR SWAP FUTURES (NY-XA - CME) vs GASOLINE EURO-BOB OXY (ARGUS) NWE BARGES SWAP FUTURES (NY-7H - CME)						
Spread Credit Rate	Increase	-25:+3	50%	50%	60%	60%
LLS (ARGUS) CALENDAR SWAP FUTURES (NY-XA - CME) vs GULF COAST NO. 6 FUEL OIL 3.0% (PLATTS) SWAP FUTURES (NY-MF - CME)						
Spread Credit Rate	Increase	+1:-1	50%	50%	60%	60%
LLS (ARGUS) CALENDAR SWAP FUTURES (NY-XA - CME) vs JAPAN C&F NAPHTHA (PLATTS) SWAP FUTURES (NY-JA - CME)						
Spread Credit Rate	Increase	+9:-1	60%	60%	66%	66%
NEW YORK HARBOR RESIDUAL FUEL 1.0% (PLATTS) SWAP FUTURES (NY-MM - CME) vs BRENT CRUDE OIL PENULTIMATE FINANCIAL FUTURES (NY-BB - CME)						
Spread Credit Rate	Decrease	+1:-1	80%	80%	77%	77%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
NY 3.0% FUEL OIL (PLATTS) SWAP FUTURES (NY-H1 - CME) vs DATED BRENT (PLATTS) CALENDAR SWAP FUTURES (NY-UB - CME)						
Spread Credit Rate	Decrease	+1:-1	80%	80%	75%	75%
PREMIUM UNLEADED GASOLINE 10 PPM (PLATTS) FOB MED SWAP FUTURES (NY-3G - CME) vs BRENT CRUDE OIL PENULTIMATE FINANCIAL FUTURES (NY-BB - CME)						
Spread Credit Rate	Increase	+2:-15	55%	55%	57%	57%
PREMIUM UNLEADED GASOLINE 10 PPM (PLATTS) FOB MED SWAP FUTURES (NY-3G - CME) vs DATED BRENT (PLATTS) CALENDAR SWAP FUTURES (NY-UB - CME)						
Spread Credit Rate	Increase	+3:-25	55%	55%	66%	66%
PREMIUM UNLEADED GASOLINE 10 PPM (PLATTS) FOB MED SWAP FUTURES (NY-3G - CME) vs DUBAI CRUDE OIL (PLATTS) CALENDAR SWAP FUTURES (NY-DC - CME)						
Spread Credit Rate	Increase	+3:-25	65%	65%	70%	70%
SINGAPORE FUEL OIL 380 CST (PLATTS) SWAP FUTURES (NY-SE - CME) vs DATED BRENT (PLATTS) CALENDAR SWAP FUTURES (NY-UB - CME)						
Spread Credit Rate	Decrease	+3:-19	75%	75%	74%	74%
SINGAPORE JET KEROSENE (PLATTS) SWAP FUTURES (NY-KS - CME) vs DATED BRENT (PLATTS) CALENDAR SWAP FUTURES (NY-UB - CME)						
Spread Credit Rate	Increase	+1:-1	55%	55%	57%	57%
SINGAPORE MOGAS 92 UNLEADED (PLATTS) SWAP FUTURES (NY-1N - CME) vs DUBAI CRUDE OIL (PLATTS) CALENDAR SWAP FUTURES (NY-DC - CME)						
Spread Credit Rate	Increase	+1:-1	55%	55%	68%	68%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
DME Products - Inter-commodity Spread Rates						
1% FUEL OIL (PLATTS) CARGOES CIF MED SWAP FUTURES (NY-1W - CME) vs OMAN CRUDE OIL (NY-OQ - CME)						
Spread Credit Rate	Decrease	+2:-15	80%	80%	78%	78%
EIA FLAT TAX ON-HIGHWAY DIESEL SWAP FUTURES (NY-A5 - CME) vs OMAN CRUDE OIL (NY-OQ - CME)						
Spread Credit Rate	Increase	+1:-1	65%	65%	75%	75%
EUROPEAN GASOIL 10 PPM (PLATTS) BARGES FOB RDAM SWAP FUTURES (NY-GT - CME) vs OMAN CRUDE OIL (NY-OQ - CME)						
Spread Credit Rate	Increase	+2:-15	55%	55%	60%	60%
GASOLINE EURO-BOB OXY (ARGUS) NWE BARGES SWAP FUTURES (NY-7H - CME) vs OMAN CRUDE OIL (NY-OQ - CME)						
Spread Credit Rate	Increase	+2:-15	65%	65%	70%	70%
JAPAN C&F NAPHTHA (PLATTS) SWAP FUTURES (NY-JA - CME) vs OMAN CRUDE OIL (NY-OQ - CME)						
Spread Credit Rate	Increase	+2:-15	75%	75%	81%	81%
NEW YORK HARBOR RESIDUAL FUEL 1.0% (PLATTS) SWAP FUTURES (NY-MM - CME) vs OMAN CRUDE OIL (NY-OQ - CME)						
Spread Credit Rate	Increase	+1:-1	75%	75%	82%	82%
NY 3.0% FUEL OIL (PLATTS) SWAP FUTURES (NY-H1 - CME) vs OMAN CRUDE OIL (NY-OQ - CME)						
Spread Credit Rate	Decrease	+1:-1	80%	80%	75%	75%
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	80%	80%	83%	83%
OMAN CRUDE OIL (NY-OQ - CME) vs GULF COAST ULSD (PLATTS) SWAP FUTURES (NY-LY - CME)						
Spread Credit Rate	Increase	+1:-1	70%	70%	82%	82%
OMAN CRUDE OIL (NY-OQ - CME) vs SINGAPORE JET KEROSENE (PLATTS) SWAP FUTURES (NY-KS - CME)						
Spread Credit Rate	Increase	+1:-1	55%	55%	63%	63%
OMAN CRUDE OIL (NY-OQ - CME) vs SINGAPORE MOGAS 92 UNLEADED (PLATTS) SWAP FUTURES (NY-1N - CME)						
Spread Credit Rate	Increase	+1:-1	60%	60%	73%	73%
OMAN CRUDE OIL (NY-OQ - CME) vs SINGAPORE MOGAS 95 UNLEADED (PLATTS) SWAP FUTURES (NY-V0 - CME)						
Spread Credit Rate	Increase	+1:-1	65%	65%	69%	69%
PREMIUM UNLEADED GASOLINE 10 PPM (PLATTS) FOB MED SWAP FUTURES (NY-3G - CME) vs OMAN CRUDE OIL (NY-OQ - CME)						
Spread Credit Rate	Increase	+3:-25	65%	65%	68%	68%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
ENVIRONMENTAL - Inter-commodity Spread Rates						
IN DELIVERY MONTH EUROPEAN UNION ALLOWANCE (EUA) FUTURES (NY-6T - CME) vs COAL (API 2) CIF ARA (ARGUS/MCCLOSKEY) SWAP FUTURES (NY-MTF - CME)						
Spread Credit Rate	Decrease	+10:-1	50%	50%	30%	30%
IN DELIVERY MONTH EUROPEAN UNION ALLOWANCE (EUA) FUTURES (NY-6T - CME) vs COAL (API 4) FOB RICHARDS BAY (ARGUS/MCCLOSKEY) SWAP FUTURES (NY-MFF - CME)						
Spread Credit Rate	Decrease	+10:-1	40%	40%	30%	30%
IN DELIVERY MONTH EUROPEAN UNION ALLOWANCE (EUA) FUTURES (NY-6T - CME) vs RBOB GASOLINE FUTURES (NY-RB - CME)						
Spread Credit Rate	Decrease	+4:-1	30%	30%	0%	0%
ETHANOL - Inter-commodity Spread Rates						
1% FUEL OIL (PLATTS) CARGOES CIF MED SWAP FUTURES (NY-1W - CME) vs CHICAGO ETHANOL (PLATTS) SWAP FUTURES (NY-CU - CME)						
Spread Credit Rate	Increase	+2:-15	30%	30%	34%	34%
CHICAGO ETHANOL (PLATTS) SWAP FUTURES (NY-CU - CME) vs NEW YORK HARBOR RESIDUAL FUEL 1.0% (PLATTS) SWAP FUTURES (NY-MM - CME)						
Spread Credit Rate	Decrease	+1:-1	45%	45%	35%	35%
NY ETHANOL (PLATTS) SWAP FUTURES (NY-EZ - CME) vs EUROPEAN NAPHTHA (PLATTS) CALENDAR SWAP FUTURES (NY-UN - CME)						
Spread Credit Rate	Increase	+9:-1	30%	30%	40%	40%
NY ETHANOL (PLATTS) SWAP FUTURES (NY-EZ - CME) vs GULF COAST NO. 6 FUEL OIL 3.0% (PLATTS) SWAP FUTURES (NY-MF - CME)						
Spread Credit Rate	Increase	+1:-1	30%	30%	45%	45%
NY ETHANOL (PLATTS) SWAP FUTURES (NY-EZ - CME) vs JAPAN C&F NAPHTHA (PLATTS) SWAP FUTURES (NY-JA - CME)						
Spread Credit Rate	Increase	+15:-2	30%	30%	36%	36%
NY ETHANOL (PLATTS) SWAP FUTURES (NY-EZ - CME) vs SINGAPORE FUEL OIL 380 CST (PLATTS) SWAP FUTURES (NY-SE - CME)						
Spread Credit Rate	Increase	+15:-2	30%	30%	40%	40%
PREMIUM UNLEADED GASOLINE 10 PPM (PLATTS) FOB MED SWAP FUTURES (NY-3G - CME) vs CHICAGO ETHANOL (PLATTS) SWAP FUTURES (NY-CU - CME)						
Spread Credit Rate	Increase	+2:-15	25%	25%	41%	41%
PREMIUM UNLEADED GASOLINE 10 PPM (PLATTS) FOB MED SWAP FUTURES (NY-3G - CME) vs NY ETHANOL (PLATTS) SWAP FUTURES (NY-EZ - CME)						
Spread Credit Rate	Increase	+2:-15	30%	30%	45%	45%
SINGAPORE GASOIL (PLATTS) SWAP FUTURES (NY-SG - CME) vs CHICAGO ETHANOL (PLATTS) SWAP FUTURES (NY-CU - CME)						
Spread Credit Rate	Increase	+1:-1	25%	25%	36%	36%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
INTEREST RATES - Inter-commodity Spread Rates						
10-YEAR T-NOTE (21 - CME) vs GOLD FUTURES (CX-GC - CME)						
Spread Credit Rate	Decrease	+3:-1	45%	45%	25%	25%
2-YEAR T-NOTE (26 - CME) vs GOLD FUTURES (CX-GC - CME)						
Spread Credit Rate	Decrease	+9:-1	45%	45%	25%	25%
5-YEAR T-NOTE (25 - CME) vs GOLD FUTURES (CX-GC - CME)						
Spread Credit Rate	Decrease	+6:-1	45%	45%	25%	25%
EURODOLLAR (ED - CME) vs GOLD FUTURES (CX-GC - CME)						
Spread Credit Rate	Decrease	+20:-1	45%	45%	25%	25%
Spread Credit Rate	Decrease	+15:-1	45%	45%	25%	25%
Spread Credit Rate	Decrease	+10:-1	45%	45%	25%	25%
Spread Credit Rate	Decrease	+8:-1	45%	45%	25%	25%
Spread Credit Rate	Decrease	+8:-1	45%	45%	35%	35%
Spread Credit Rate	Decrease	+8:+1	45%	45%	35%	35%
FED FUNDS (41 - CME) vs GOLD FUTURES (CX-GC - CME)						
Spread Credit Rate	Decrease	+20:-1	45%	45%	25%	25%
Spread Credit Rate	Decrease	+15:-1	45%	45%	25%	25%
Spread Credit Rate	Decrease	+10:-1	45%	45%	25%	25%
Spread Credit Rate	Decrease	+8:-1	45%	45%	25%	25%
Spread Credit Rate	Decrease	+7:-1	45%	45%	25%	25%
U.S. TREASURY BOND (17 - CME) vs GOLD FUTURES (CX-GC - CME)						
Spread Credit Rate	Decrease	+1:-1	45%	45%	40%	40%
ULTRA 10-YEAR U.S. TREASURY NOTE FUTURES (TN - CME) vs GOLD FUTURES (CX-GC - CME)						
Spread Credit Rate	Decrease	+2:-1	45%	45%	25%	25%
ULTRA LONG TREASURY BOND (UBE - CME) vs GOLD FUTURES (CX-GC - CME)						
Spread Credit Rate	Decrease	+1:-1	45%	45%	40%	40%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
METALS - Inter-commodity Spread Rates						
AUSTRALIAN DOLLAR (AD - CME) vs GOLD FUTURES (CX-GC - CME)						
Spread Credit Rate	Increase	+1:-1	30%	30%	50%	50%
CANADIAN DOLLAR (CD - CME) vs GOLD FUTURES (CX-GC - CME)						
Spread Credit Rate	New	+1:+1			30%	30%
CANADIAN DOLLAR (CD - CME) vs SILVER FUTURES (CX-SI - CME)						
Spread Credit Rate	New	+1:-1			30%	30%
CLEARED OTC LONDON GOLD FORWARDS (COLLATERAL MARGIN) (CX-GB - CME) vs CLEARED OTC LONDON SILVER FORWARD (CASH MARGIN) (CX-LSF - CME)						
Spread Credit Rate	New	+1:-1			50%	50%
CLEARED OTC LONDON GOLD FORWARDS (COLLATERAL MARGIN) (CX-GB - CME) vs PALLADIUM FUTURES (NY-PL - CME)						
Spread Credit Rate	Decrease	+50:-1	60%	60%	0%	0%
CLEARED OTC LONDON SILVER FORWARD (CASH MARGIN) (CX-LSF - CME) vs COPPER FUTURES (CX-HG - CME)						
Spread Credit Rate	New	+50:-1			25%	25%
CLEARED OTC LONDON SILVER FORWARD (CASH MARGIN) (CX-LSF - CME) vs GOLD FUTURES (CX-GC - CME)						
Spread Credit Rate	New	-100:+1			50%	50%
CLEARED OTC LONDON SILVER FORWARD (CASH MARGIN) (CX-LSF - CME) vs SILVER FUTURES (CX-SI - CME)						
Spread Credit Rate	New	+100:-1			90%	90%
COPPER FUTURES (CX-HG - CME) vs AUSTRALIAN DOLLAR (AD - CME)						
Spread Credit Rate	Increase	+1:-2	25%	25%	35%	35%
COPPER FUTURES (CX-HG - CME) vs CHILEAN PESO/US DOLLAR FUTURES (CHP - CME)						
Spread Credit Rate	New	+1:-1			30%	30%
COPPER FUTURES (CX-HG - CME) vs EURO FX (EC - CME)						
Spread Credit Rate	New	+1:-1			40%	40%
COPPER FUTURES (CX-HG - CME) vs GOLD FUTURES (CX-GC - CME)						
Spread Credit Rate	New	+2:-1			35%	35%
EURO FX (EC - CME) vs GOLD FUTURES (CX-GC - CME)						
Spread Credit Rate	Increase	+1:-2	30%	30%	50%	50%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
GOLD FUTURES (CX-GC - CME) vs SWISS FRANC (SF - CME)						
Spread Credit Rate	Increase	+1:-1	31%	31%	50%	50%
PALLADIUM FUTURES (NY-PA - CME) vs PLATINUM FUTURES (NY-PL - CME)						
Spread Credit Rate	New	+1:-2			35%	35%
PLATINUM FUTURES (NY-PL - CME) vs CLEARED OTC LONDON GOLD FORWARDS (COLLATERAL MARGIN) (CX-GB - CME)						
Spread Credit Rate	New	+1:-50			40%	40%
U.S. TREASURY BOND (17 - CME) vs GOLD FUTURES (CX-GC - CME)						
Spread Credit Rate	Decrease	+1:-1	45%	45%	40%	40%
ULTRA 10-YEAR U.S. TREASURY NOTE FUTURES (TN - CME) vs GOLD FUTURES (CX-GC - CME)						
Spread Credit Rate	Decrease	+2:-1	45%	45%	25%	25%
ULTRA LONG TREASURY BOND (UBE - CME) vs GOLD FUTURES (CX-GC - CME)						
Spread Credit Rate	Decrease	+1:-1	45%	45%	40%	40%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
NATURAL GAS - Inter-commodity Spread Rates						
DUTCH TTF NATURAL GAS (USD/MMBTU) (ICIS HEREN) FRONT MONTH FUTURES (NY-TTE - CME) vs BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME)						
Spread Credit Rate	Increase	+1:-2	35%	35%	40%	40%
DUTCH TTF NATURAL GAS (USD/MMBTU) (ICIS HEREN) FRONT MONTH FUTURES (NY-TTE - CME) vs COAL (API 4) FOB RICHARDS BAY (ARGUS/MCCLOSKEY) SWAP FUTURES (NY-MFF - CME)						
Spread Credit Rate	Decrease	+1:-1	40%	40%	30%	30%
DUTCH TTF NATURAL GAS (USD/MMBTU) (ICIS HEREN) FRONT MONTH FUTURES (NY-TTE - CME) vs LIGHT SWEET CRUDE OIL FUTURES (NY-CL - CME)						
Spread Credit Rate	Increase	+1:-2	35%	35%	40%	40%
DUTCH TTF NATURAL GAS (USD/MMBTU) (ICIS HEREN) FRONT MONTH FUTURES (NY-TTE - CME) vs LNG JAPAN/KOREA MARKER (PLATTS) SWAP FUTURES (NY-JKM - CME)						
Spread Credit Rate	Decrease	+1:-1	25%	25%	20%	20%
DUTCH TTF NATURAL GAS CALENDAR MONTH FUTURES (NY-TTF - CME) vs COAL (API 2) CIF ARA (ARGUS/MCCLOSKEY) SWAP FUTURES (NY-MTF - CME)						
Spread Credit Rate	Decrease	+11:-1	50%	50%	40%	40%
Spread Credit Rate	Decrease	+11:-1	57%	57%	52%	52%
Spread Credit Rate	Decrease	+11:-1	58%	58%	55%	55%
DUTCH TTF NATURAL GAS CALENDAR MONTH FUTURES (NY-TTF - CME) vs COAL (API 4) FOB RICHARDS BAY (ARGUS/MCCLOSKEY) SWAP FUTURES (NY-MFF - CME)						
Spread Credit Rate	Decrease	+11:-1	47%	47%	42%	42%
Spread Credit Rate	New	+11:-1			35%	35%
Spread Credit Rate	Decrease	+11:-1	40%	40%	38%	38%
UK NBP NATURAL GAS (USD/MMBTU) (ICIS HEREN) FRONT MONTH FUTURES (NY-NBP - CME) vs COAL (API 2) CIF ARA (ARGUS/MCCLOSKEY) SWAP FUTURES (NY-MTF - CME)						
Spread Credit Rate	Decrease	+1:-1	45%	45%	40%	40%
Spread Credit Rate	Decrease	+1:-1	40%	40%	35%	35%
UK NBP NATURAL GAS (USD/MMBTU) (ICIS HEREN) FRONT MONTH FUTURES (NY-NBP - CME) vs COAL (API 4) FOB RICHARDS BAY (ARGUS/MCCLOSKEY) SWAP FUTURES (NY-MFF - CME)						
Spread Credit Rate	Decrease	+1:-1	35%	35%	30%	30%
UK NBP NATURAL GAS (USD/MMBTU) (ICIS HEREN) FRONT MONTH FUTURES (NY-NBP - CME) vs LNG JAPAN/KOREA MARKER (PLATTS) SWAP FUTURES (NY-JKM - CME)						
Spread Credit Rate	Decrease	+1:-1	30%	30%	20%	20%
UK NBP NATURAL GAS CALENDAR MONTH FUTURES (NY-UKG - CME) vs COAL (API 2) CIF ARA (ARGUS/MCCLOSKEY) SWAP FUTURES (NY-MTF - CME)						
Spread Credit Rate	Decrease	+10:-1	46%	46%	40%	40%
Spread Credit Rate	Decrease	+10:-1	48%	48%	44%	44%

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						
1% FUEL OIL (PLATTS) CARGOES CIF MED SWAP FUTURES (NY-1W - CME) vs ARGUS PROPANE (SAUDI ARAMCO) SWAP FUTURES (NY-9N - CME)						
Spread Credit Rate	Decrease	+1:-1	55%	55%	48%	48%
1% FUEL OIL (PLATTS) CARGOES CIF MED SWAP FUTURES (NY-1W - CME) vs ARGUS PROPANE FAR EAST INDEX SWAP FUTURES (NY-7E - CME)						
Spread Credit Rate	Decrease	+1:-1	50%	50%	45%	45%
1% FUEL OIL (PLATTS) CARGOES CIF MED SWAP FUTURES (NY-1W - CME) vs CONWAY NATURAL GASOLINE (OPIS) SWAP FUTURES (NY-8L - CME)						
Spread Credit Rate	Decrease	+2:-15	60%	60%	50%	50%
1% FUEL OIL (PLATTS) CARGOES CIF MED SWAP FUTURES (NY-1W - CME) vs CONWAY PROPANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-8K - CME)						
Spread Credit Rate	Decrease	+2:-15	50%	50%	40%	40%
1% FUEL OIL (PLATTS) CARGOES CIF MED SWAP FUTURES (NY-1W - CME) vs EUROPEAN PROPANE CIF ARA (ARGUS) SWAP FUTURES (NY-PS - CME)						
Spread Credit Rate	Decrease	+1:-1	55%	55%	47%	47%
1% FUEL OIL (PLATTS) CARGOES CIF MED SWAP FUTURES (NY-1W - CME) vs MONT BELVIEU ISO-BUTANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-8I - CME)						
Spread Credit Rate	Increase	+2:-15	40%	40%	45%	45%
Spread Credit Rate	Increase	+2:-15	25%	25%	30%	30%
1% FUEL OIL (PLATTS) CARGOES CIF MED SWAP FUTURES (NY-1W - CME) vs MONT BELVIEU NATURAL GASOLINE 5 DECIMALS (OPIS) SWAP FUTURES (NY-7Q - CME)						
Spread Credit Rate	Decrease	+2:-15	70%	70%	63%	63%
1% FUEL OIL (PLATTS) CARGOES CIF MED SWAP FUTURES (NY-1W - CME) vs MONT BELVIEU NORMAL BUTANE LDH (OPIS) SWAP FUTURES (NY-MNB - CME)						
Spread Credit Rate	Increase	+2:-15	30%	30%	51%	51%
ARGUS PROPAN(SAUDI ARAMCO) SWP (NY-9N - CME) vs EUROPE NAPHTHA CALSWAP (NY-UN - CME)						
Spread Credit Rate	Increase	+1:-1	49%	49%	57%	57%
ARGUS PROPANE (SAUDI ARAMCO) SWAP FUTURES (NY-9N - CME) vs EIA FLAT TAX ON-HIGHWAY DIESEL SWAP FUTURES (NY-A5 - CME)						
Spread Credit Rate	Increase	+1:-12	45%	45%	56%	56%
ARGUS PROPANE (SAUDI ARAMCO) SWAP FUTURES (NY-9N - CME) vs EUROPEAN 3.5% FUEL OIL (PLATTS) BARGES FOB RDAM CALENDAR SWAP FUTURES (NY-UV - CME)						
Spread Credit Rate	Increase	+1:-1	35%	35%	42%	42%
ARGUS PROPANE (SAUDI ARAMCO) SWAP FUTURES (NY-9N - CME) vs GASOLINE EURO-BOB OXY (ARGUS) NWE BARGES SWAP FUTURES (NY-7H - CME)						
Spread Credit Rate	Increase	+1:-1	40%	40%	45%	45%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
ARGUS PROPANE (SAUDI ARAMCO) SWAP FUTURES (NY-9N - CME) vs GULF COAST JET FUEL (PLATTS) CALENDAR SWAP FUTURES (NY-GE - CME)						
Spread Credit Rate	Increase	+1:-12	45%	45%	48%	48%
ARGUS PROPANE (SAUDI ARAMCO) SWAP FUTURES (NY-9N - CME) vs GULF COAST NO. 6 FUEL OIL 3.0% (PLATTS) SWAP FUTURES (NY-MF - CME)						
Spread Credit Rate	Increase	+1:-12	40%	40%	55%	55%
ARGUS PROPANE (SAUDI ARAMCO) SWAP FUTURES (NY-9N - CME) vs GULF COAST ULSD (PLATTS) SWAP FUTURES (NY-LY - CME)						
Spread Credit Rate	Increase	+1:-12	40%	40%	55%	55%
ARGUS PROPANE (SAUDI ARAMCO) SWAP FUTURES (NY-9N - CME) vs JAPAN C&F NAPHTHA (PLATTS) SWAP FUTURES (NY-JA - CME)						
Spread Credit Rate	Increase	+1:-1	50%	50%	57%	57%
ARGUS PROPANE (SAUDI ARAMCO) SWAP FUTURES (NY-9N - CME) vs NEW YORK HARBOR RESIDUAL FUEL 1.0% (PLATTS) SWAP FUTURES (NY-MM - CME)						
Spread Credit Rate	Increase	+1:-12	50%	50%	53%	53%
ARGUS PROPANE (SAUDI ARAMCO) SWAP FUTURES (NY-9N - CME) vs NY 3.0% FUEL OIL (PLATTS) SWAP FUTURES (NY-H1 - CME)						
Spread Credit Rate	Increase	+1:-12	30%	30%	45%	45%
ARGUS PROPANE (SAUDI ARAMCO) SWAP FUTURES (NY-9N - CME) vs PREMIUM UNLEADED GASOLINE 10 PPM (PLATTS) FOB MED SWAP FUTURES (NY-3G - CME)						
Spread Credit Rate	Increase	+1:-1	35%	35%	40%	40%
ARGUS PROPANE (SAUDI ARAMCO) SWAP FUTURES (NY-9N - CME) vs SINGAPORE FUEL OIL 380 CST (PLATTS) SWAP FUTURES (NY-SE - CME)						
Spread Credit Rate	Increase	+1:-1	42%	42%	45%	45%
ARGUS PROPANE (SAUDI ARAMCO) SWAP FUTURES (NY-9N - CME) vs SINGAPORE GASOIL (PLATTS) SWAP FUTURES (NY-SG - CME)						
Spread Credit Rate	Increase	+1:-12	41%	41%	50%	50%
ARGUS PROPANE (SAUDI ARAMCO) SWAP FUTURES (NY-9N - CME) vs SINGAPORE MOGAS 92 UNLEADED (PLATTS) SWAP FUTURES (NY-1N - CME)						
Spread Credit Rate	Increase	+1:-12	40%	40%	55%	55%
ARGUS PROPANE FAR EAST INDEX SWAP FUTURES (NY-7E - CME) vs EUROPEAN 1% FUEL OIL (PLATTS) BARGES FOB RDAM CALENDAR SWAP FUTURES (NY-UH - CME)						
Spread Credit Rate	Increase	+1:-1	35%	35%	40%	40%
ARGUS PROPANE FAR EAST INDEX SWAP FUTURES (NY-7E - CME) vs GULF COAST NO. 6 FUEL OIL 3.0% (PLATTS) SWAP FUTURES (NY-MF - CME)						
Spread Credit Rate	Decrease	+1:-12	55%	55%	52%	52%
ARGUS PROPANE FAR EAST INDEX SWAP FUTURES (NY-7E - CME) vs GULF COAST ULSD (PLATTS) SWAP FUTURES (NY-LY - CME)						
Spread Credit Rate	Increase	+1:-12	45%	45%	47%	47%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
ARGUS PROPANE FAR EAST INDEX SWAP FUTURES (NY-7E - CME) vs JAPAN C&F NAPHTHA (PLATTS) SWAP FUTURES (NY-JA - CME)						
Spread Credit Rate	Increase	+1:-1	50%	50%	54%	54%
ARGUS PROPANE FAR EAST INDEX SWAP FUTURES (NY-7E - CME) vs NY 3.0% FUEL OIL (PLATTS) SWAP FUTURES (NY-H1 - CME)						
Spread Credit Rate	New	+1:-12			35%	35%
Spread Credit Rate	Increase	+1:-12	30%	30%	45%	45%
ARGUS PROPANE FAR EAST INDEX SWAP FUTURES (NY-7E - CME) vs SINGAPORE GASOIL (PLATTS) SWAP FUTURES (NY-SG - CME)						
Spread Credit Rate	New	+1:-12			35%	35%
Spread Credit Rate	Increase	+1:-12	30%	30%	46%	46%
ARGUS PROPANE FAR EAST INDEX SWAP FUTURES (NY-7E - CME) vs SINGAPORE JET KEROSENE (PLATTS) SWAP FUTURES (NY-KS - CME)						
Spread Credit Rate	Increase	+1:-12	35%	35%	39%	39%
ARGUS PROPANE FAR EAST INDEX SWAP FUTURES (NY-7E - CME) vs SINGAPORE MOGAS 92 UNLEADED (PLATTS) SWAP FUTURES (NY-1N - CME)						
Spread Credit Rate	Increase	+1:-12	40%	40%	47%	47%
COAL (API 2) CIF ARA (ARGUS/MCCLOSKEY) SWAP FUTURES (NY-MTF - CME) vs ARGUS PROPANE FAR EAST INDEX SWAP FUTURES (NY-7E - CME)						
Spread Credit Rate	Increase	+5:-1	25%	25%	30%	30%
COAL (API 4) FOB RICHARDS BAY (ARGUS/MCCLOSKEY) SWAP FUTURES (NY-MFF - CME) vs ARGUS PROPANE FAR EAST INDEX SWAP FUTURES (NY-7E - CME)						
Spread Credit Rate	Increase	+5:-1	25%	25%	30%	30%
CONWAY NATURAL GASOLINE (OPIS) SWAP FUTURES (NY-8L - CME) vs EUROPEAN 3.5% FUEL OIL (PLATTS) BARGES FOB RDAM CALENDAR SWAP FUTURES (NY-UV - CME)						
Spread Credit Rate	Decrease	+19:-3	55%	55%	48%	48%
CONWAY NATURAL GASOLINE (OPIS) SWAP FUTURES (NY-8L - CME) vs GASOLINE EURO-BOB OXY (ARGUS) NWE BARGES SWAP FUTURES (NY-7H - CME)						
Spread Credit Rate	Increase	+25:-3	30%	30%	35%	35%
CONWAY NATURAL GASOLINE (OPIS) SWAP FUTURES (NY-8L - CME) vs GULF COAST NO. 6 FUEL OIL 3.0% (PLATTS) SWAP FUTURES (NY-MF - CME)						
Spread Credit Rate	Decrease	+1:-1	55%	55%	45%	45%
CONWAY NATURAL GASOLINE (OPIS) SWAP FUTURES (NY-8L - CME) vs GULF COAST ULSD (PLATTS) SWAP FUTURES (NY-LY - CME)						
Spread Credit Rate	Increase	+1:-1	40%	40%	46%	46%
CONWAY NATURAL GASOLINE (OPIS) SWAP FUTURES (NY-8L - CME) vs SINGAPORE FUEL OIL 380 CST (PLATTS) SWAP FUTURES (NY-SE - CME)						
Spread Credit Rate	Decrease	+19:-3	51%	51%	45%	45%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
CONWAY NATURAL GASOLINE (OPIS) SWAP FUTURES (NY-8L - CME) vs SINGAPORE MOGAS 92 UNLEADED (PLATTS) SWAP FUTURES (NY-1N - CME)						
Spread Credit Rate	New	+1:-1			30%	30%
Spread Credit Rate	Increase	+1:-1	25%	25%	40%	40%
CONWAY NORMAL BUTANE (OPIS) SWAP FUTURES (NY-8M - CME) vs 1% FUEL OIL (PLATTS) CARGOES CIF MED SWAP FUTURES (NY-1W - CME)						
Spread Credit Rate	Decrease	+15:-2	40%	40%	37%	37%
CONWAY NORMAL BUTANE (OPIS) SWAP FUTURES (NY-8M - CME) vs EUROPEAN NAPHTHA (PLATTS) CALENDAR SWAP FUTURES (NY-UN - CME)						
Spread Credit Rate	Increase	+9:-1	40%	40%	46%	46%
CONWAY NORMAL BUTANE (OPIS) SWAP FUTURES (NY-8M - CME) vs GULF COAST JET FUEL (PLATTS) CALENDAR SWAP FUTURES (NY-GE - CME)						
Spread Credit Rate	Increase	+1:-1	35%	35%	40%	40%
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			38%	38%
Spread Credit Rate	Increase	+1:-1	25%	25%	30%	30%
CONWAY NORMAL BUTANE (OPIS) SWAP FUTURES (NY-8M - CME) vs NEW YORK HARBOR RESIDUAL FUEL 1.0% (PLATTS) SWAP FUTURES (NY-MM - CME)						
Spread Credit Rate	Increase	+1:-1	30%	30%	36%	36%
CONWAY NORMAL BUTANE (OPIS) SWAP FUTURES (NY-8M - CME) vs SINGAPORE FUEL OIL 180 CST (PLATTS) CALENDAR SWAP FUTURES (NY-UA - CME)						
Spread Credit Rate	Increase	+15:-2	35%	35%	39%	39%
CONWAY NORMAL BUTANE (OPIS) SWAP FUTURES (NY-8M - CME) vs SINGAPORE GASOIL (PLATTS) SWAP FUTURES (NY-SG - CME)						
Spread Credit Rate	Decrease	+1:-1	58%	58%	53%	53%
CONWAY NORMAL BUTANE (OPIS) SWAP FUTURES (NY-8M - CME) vs SINGAPORE MOGAS 92 UNLEADED (PLATTS) SWAP FUTURES (NY-1N - CME)						
Spread Credit Rate	Increase	+1:-1	35%	35%	44%	44%
CONWAY PROPANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-8K - CME) vs GULF COAST NO. 6 FUEL OIL 3.0% (PLATTS) SWAP FUTURES (NY-MF - CME)						
Spread Credit Rate	Increase	+1:-1	40%	40%	42%	42%
CONWAY PROPANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-8K) vs. GULF COAST ULSD (PLATTS) SWAP FUTURES (NY-LY)						
Spread Credit Rate	Increase	+1:-1	30%	30%	39%	39%
CONWAY PROPANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-8K) vs. SINGAPORE GASOIL (PLATTS) SWAP FUTURES (NY-SG)						
Spread Credit Rate	New	+1:-1			30%	30%
Spread Credit Rate	Increase	+1:-1	25%	25%	37%	37%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
CONWAY PROPANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-8K) vs. SINGAPORE MOGAS 92 UNLEADED (PLATTS) SWAP FUTURES (NY-1N)						
Spread Credit Rate	Increase	+1:-1	20%	20%	41%	41%
Spread Credit Rate	Increase	+1:-1	20%	20%	35%	35%
EIA FLAT TAX ON-HIGHWAY DIESEL SWAP FUTURES (NY-A5) vs. CONWAY PROPANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-8K)						
Spread Credit Rate	Increase	+1:-1	35%	35%	40%	40%
EIA FLAT TAX ON-HIGHWAY DIESEL SWAP FUTURES (NY-A5) vs. MONT BELVIEU NATURAL GASOLINE 5 DECIMALS (OPIS) SWAP FUTURES (NY-7Q)						
Spread Credit Rate	Increase	+1:-1	55%	55%	64%	64%
EUROPEAN 1% FUEL OIL (PLATTS) CARGOES FOB NWE CALENDAR SWAP FUTURES (NY-UF - CME) vs CONWAY NORMAL BUTANE (OPIS) SWAP FUTURES (NY-8M - CME)						
Spread Credit Rate	Increase	+2:-15	25%	25%	39%	39%
EUROPEAN 1% FUEL OIL (PLATTS) CARGOES FOB NWE CALENDAR SWAP FUTURES (NY-UF - CME) vs MONT BELVIEU NATURAL GASOLINE 5 DECIMALS (OPIS) SWAP FUTURES (NY-7Q - CME)						
Spread Credit Rate	Decrease	+2:-15	68%	68%	61%	61%
EUROPEAN GASOIL 10 PPM (PLATTS) BARGES FOB RDAM SWAP FUTURES (NY-GT - CME) vs ARGUS PROPANE (SAUDI ARAMCO) SWAP FUTURES (NY-9N - CME)						
Spread Credit Rate	Decrease	+1:-1	55%	55%	44%	44%
EUROPEAN GASOIL 10 PPM (PLATTS) BARGES FOB RDAM SWAP FUTURES (NY-GT - CME) vs MONT BELVIEU NORMAL BUTANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-D0 - CME)						
Spread Credit Rate	Increase	+2:-15	30%	30%	35%	35%
EUROPEAN NAPHTHA (PLATTS) CALENDAR SWAP FUTURES (NY-UN - CME) vs CONWAY NATURAL GASOLINE (OPIS) SWAP FUTURES (NY-8L - CME)						
Spread Credit Rate	New	+1:-9			40%	40%
Spread Credit Rate	Increase	+1:-9	35%	35%	52%	52%
EUROPEAN NAPHTHA (PLATTS) CALENDAR SWAP FUTURES (NY-UN) vs. MONT BELVIEU NATURAL GASOLINE 5 DECIMALS (OPIS) SWAP FUTURES (NY-7Q)						
Spread Credit Rate	Decrease	+1:-9	73%	73%	67%	67%
EUROPEAN NAPHTHA (PLATTS) CALENDAR SWAP FUTURES (NY-UN) vs. MONT BELVIEU NORMAL BUTANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-D0)						
Spread Credit Rate	Increase	+1:-9	49%	49%	58%	58%
EUROPEAN PROPANE CIF ARA (ARGUS) SWAP FUTURES (NY-PS - CME) vs EUROPEAN 1% FUEL OIL (PLATTS) BARGES FOB RDAM CALENDAR SWAP FUTURES (NY-UH - CME)						
Spread Credit Rate	Increase	+1:-1	30%	30%	40%	40%
EUROPEAN PROPANE CIF ARA (ARGUS) SWAP FUTURES (NY-PS - CME) vs EUROPEAN 1% FUEL OIL (PLATTS) CARGOES FOB NWE CALENDAR SWAP FUTURES (NY-UF - CME)						
Spread Credit Rate	Increase	+1:-1	40%	40%	42%	42%
EUROPEAN PROPANE CIF ARA (ARGUS) SWAP FUTURES (NY-PS - CME) vs GASOLINE EURO-BOB OXY (ARGUS) NWE BARGES SWAP FUTURES (NY-7H - CME)						
Spread Credit Rate	Increase	+1:-1	40%	40%	44%	44%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
EUROPEAN PROPANE CIF ARA (ARGUS) SWAP FUTURES (NY-PS - CME) vs GULF COAST JET FUEL (PLATTS) CALENDAR SWAP FUTURES (NY-GE - CME)						
Spread Credit Rate	Increase	+1:-12	45%	45%	50%	50%
EUROPEAN PROPANE CIF ARA (ARGUS) SWAP FUTURES (NY-PS - CME) vs JAPAN C&F NAPHTHA (PLATTS) SWAP FUTURES (NY-JA - CME)						
Spread Credit Rate	Increase	+1:-1	55%	55%	59%	59%
EUROPEAN PROPANE CIF ARA (ARGUS) SWAP FUTURES (NY-PS - CME) vs NY 3.0% FUEL OIL (PLATTS) SWAP FUTURES (NY-H1 - CME)						
Spread Credit Rate	Increase	+1:-12	30%	30%	45%	45%
EUROPEAN PROPANE CIF ARA (ARGUS) SWAP FUTURES (NY-PS - CME) vs SINGAPORE GASOIL (PLATTS) SWAP FUTURES (NY-SG - CME)						
Spread Credit Rate	Increase	+1:-12	35%	35%	46%	46%
EUROPEAN PROPANE CIF ARA (ARGUS) SWAP FUTURES (NY-PS) vs. GULF COAST ULSD (PLATTS) SWAP FUTURES (NY-LY)						
Spread Credit Rate	Increase	+1:-12	40%	40%	48%	48%
EUROPEAN PROPANE CIF ARA (ARGUS) SWAP FUTURES (NY-PS) vs. SINGAPORE FUEL OIL 380 CST (PLATTS) SWAP FUTURES (NY-SE)						
Spread Credit Rate	Increase	+1:-1	40%	40%	43%	43%
EUROPEAN PROPANE CIF ARA (ARGUS) SWAP FUTURES (NY-PS) vs. SINGAPORE MOGAS 92 UNLEADED (PLATTS) SWAP FUTURES (NY-1N)						
Spread Credit Rate	Increase	+1:-12	40%	40%	49%	49%
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	+3:-25	32%	32%	34%	34%
GASOLINE EURO-BOB OXY (ARGUS) NWE BARGES SWAP FUTURES (NY-7H) vs. MONT BELVIEU NORMAL BUTANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-D0)						
Spread Credit Rate	Increase	+3:-25	40%	40%	43%	43%
GULF COAST JET FUEL (PLATTS) CALENDAR SWAP FUTURES (NY-GE - CME) vs CONWAY PROPANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-8K - CME)						
Spread Credit Rate	Increase	+1:-1	30%	30%	37%	37%
GULF COAST JET FUEL (PLATTS) CALENDAR SWAP FUTURES (NY-GE - CME) vs MONT BELVIEU NORMAL BUTANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-D0 - CME)						
Spread Credit Rate	Increase	+1:-1	35%	35%	40%	40%
GULF COAST JET FUEL (PLATTS) CALENDAR SWAP FUTURES (NY-GE - CME) vs MONT BELVIEU NORMAL BUTANE LDH (OPIS) SWAP FUTURES (NY-MNB - CME)						
Spread Credit Rate	Increase	+1:-1	40%	40%	48%	48%
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	Decrease	+1:-2	25%	25%	0%	0%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
JAPAN C&F NAPHTHA (PLATTS) SWAP FUTURES (NY-JA - CME) vs CONWAY NATURAL GASOLINE (OPIS) SWAP FUTURES (NY-8L - CME)						
Spread Credit Rate	Increase	+2:-15	50%	50%	52%	52%
JAPAN C&F NAPHTHA (PLATTS) SWAP FUTURES (NY-JA - CME) vs CONWAY PROPANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-8K - CME)						
Spread Credit Rate	Increase	+2:-15	30%	30%	35%	35%
Spread Credit Rate	Increase	+2:-15	41%	41%	51%	51%
JAPAN C&F NAPHTHA (PLATTS) SWAP FUTURES (NY-JA) vs. MONT BELVIEU LDH PROPANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-B0)						
Spread Credit Rate	Increase	+2:-15	45%	45%	55%	55%
Spread Credit Rate	Increase	+2:-15	35%	35%	40%	40%
JAPAN C&F NAPHTHA (PLATTS) SWAP FUTURES (NY-JA) vs. MONT BELVIEU NORMAL BUTANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-D0)						
Spread Credit Rate	Increase	+2:-15	45%	45%	54%	54%
MONT BELVIEU ISO-BUTANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-8I - CME) vs EUROPEAN 1% FUEL OIL (PLATTS) BARGES FOB RDAM CALENDAR SWAP FUTURES (NY-UH - CME)						
Spread Credit Rate	Increase	+15:-2	25%	25%	40%	40%
MONT BELVIEU ISO-BUTANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-8I - CME) vs SINGAPORE GASOIL (PLATTS) SWAP FUTURES (NY-SG - CME)						
Spread Credit Rate	Increase	+1:-1	30%	30%	43%	43%
MONT BELVIEU ISO-BUTANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-8I) vs. EUROPEAN NAPHTHA (PLATTS) CALENDAR SWAP FUTURES (NY-UN)						
Spread Credit Rate	Increase	+9:-1	45%	45%	53%	53%
Spread Credit Rate	Increase	+9:-1	30%	30%	35%	35%
MONT BELVIEU ISO-BUTANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-8I) vs. GULF COAST NO. 6 FUEL OIL 3.0% (PLATTS) SWAP FUTURES (NY-MF)						
Spread Credit Rate	Increase	+1:-1	50%	50%	55%	55%
Spread Credit Rate	Increase	+1:-1	40%	40%	45%	45%
MONT BELVIEU ISO-BUTANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-8I) vs. GULF COAST ULSD (PLATTS) SWAP FUTURES (NY-LY)						
Spread Credit Rate	Increase	+1:-1	40%	40%	42%	42%
MONT BELVIEU ISO-BUTANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-8I) vs. JAPAN C&F NAPHTHA (PLATTS) SWAP FUTURES (NY-JA)						
Spread Credit Rate	Increase	+15:-2	45%	45%	50%	50%
Spread Credit Rate	Increase	+15:-2	30%	30%	35%	35%
MONT BELVIEU ISO-BUTANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-8I) vs. NEW YORK HARBOR RESIDUAL FUEL 1.0% (PLATTS) SWAP FUTURES (NY-MM)						
Spread Credit Rate	Increase	+1:-1	45%	45%	53%	53%
Spread Credit Rate	Increase	+1:-1	30%	30%	35%	35%

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	40%	40%	45%	45%
MONT BELVIEU LDH PROPANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-B0 - CME) vs GULF COAST ULSD (PLATTS) SWAP FUTURES (NY-LY - CME)						
Spread Credit Rate	Increase	+1:-1	40%	40%	44%	44%
MONT BELVIEU LDH PROPANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-B0) vs. GULF COAST NO.6 FUEL OIL 3.0% (NY-MF)						
Spread Credit Rate	Increase	+1:-1	45%	45%	49%	49%
MONT BELVIEU NATURAL GASOLINE 5 DECIMALS (OPIS) SWAP FUTURES (NY-7Q - CME) vs EUROPEAN 3.5% FUEL OIL (PLATTS) BARGES FOB RDAM CALENDAR SWAP FUTURES (NY-UV - CME)						
Spread Credit Rate	Decrease	+19:-3	69%	69%	64%	64%
MONT BELVIEU NATURAL GASOLINE 5 DECIMALS (OPIS) SWAP FUTURES (NY-7Q - CME) vs GULF COAST NO. 6 FUEL OIL 3.0% (PLATTS) SWAP FUTURES (NY-MF - CME)						
Spread Credit Rate	Decrease	+1:-1	68%	68%	65%	65%
MONT BELVIEU NATURAL GASOLINE 5 DECIMALS (OPIS) SWAP FUTURES (NY-7Q - CME) vs NEW YORK HARBOR RESIDUAL FUEL 1.0% (PLATTS) SWAP FUTURES (NY-MM - CME)						
Spread Credit Rate	Increase	+1:-1	60%	60%	65%	65%
MONT BELVIEU NORMAL BUTANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-D0 - CME) vs GULF COAST NO. 6 FUEL OIL 3.0% (PLATTS) SWAP FUTURES (NY-MF - CME)						
Spread Credit Rate	Increase	+1:-1	45%	45%	55%	55%
MONT BELVIEU NORMAL BUTANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-D0 - CME) vs NEW YORK HARBOR RESIDUAL FUEL 1.0% (PLATTS) SWAP FUTURES (NY-MM - CME)						
Spread Credit Rate	Increase	+1:-1	40%	40%	54%	54%
MONT BELVIEU NORMAL BUTANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-D0) vs. SINGAPORE MOGAS 92 UNLEADED (PLATTS) SWAP FUTURES (NY-1N)						
Spread Credit Rate	Increase	+1:-1	35%	35%	48%	48%
MONT BELVIEU NORMAL BUTANE LDH (OPIS) SWAP FUTURES (NY-MNB - CME) vs EUROPEAN 3.5% FUEL OIL (PLATTS) BARGES FOB RDAM CALENDAR SWAP FUTURES (NY-UV - CME)						
Spread Credit Rate	Increase	+19:-3	45%	45%	60%	60%
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	Increase	+1:-1	45%	45%	60%	60%
MONT BELVIEU NORMAL BUTANE LDH (OPIS) SWAP FUTURES (NY-MNB - CME) vs GULF COAST ULSD (PLATTS) SWAP FUTURES (NY-LY - CME)						
Spread Credit Rate	Increase	+1:-1	45%	45%	55%	55%
MONT BELVIEU NORMAL BUTANE LDH (OPIS) SWAP FUTURES (NY-MNB - CME) vs NEW YORK HARBOR RESIDUAL FUEL 1.0% (PLATTS) SWAP FUTURES (NY-MM - CME)						
Spread Credit Rate	Increase	+1:-1	45%	45%	58%	58%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
MONT BELVIEU NORMAL BUTANE LDH (OPIS) SWAP FUTURES (NY-MNB) vs. EIA FLAT TAX ON-HIGHWAY DIESEL SWAP FUTURES (NY-A5)						
Spread Credit Rate	Increase	+1:-1	45%	45%	54%	54%
MONT BELVIEU NORMAL BUTANE LDH (OPIS) SWAP FUTURES (NY-MNB) vs. EUROPEAN NAPHTHA (PLATTS) CALENDAR SWAP FUTURES (NY-UN)						
Spread Credit Rate	Increase	+9:-1	35%	35%	50%	50%
MONT BELVIEU NORMAL BUTANE LDH (OPIS) SWAP FUTURES (NY-MNB) vs. JAPAN C&F NAPHTHA (PLATTS) SWAP FUTURES (NY-JA)						
Spread Credit Rate	Increase	+15:-2	40%	40%	55%	55%
MONT BELVIEU NORMAL BUTANE LDH (OPIS) SWAP FUTURES (NY-MNB) vs. SINGAPORE FUEL OIL 380 CST (PLATTS) SWAP FUTURES (NY-SE)						
Spread Credit Rate	Decrease	+19:-3	62%	62%	60%	60%
MONT BELVIEU NORMAL BUTANE LDH (OPIS) SWAP FUTURES (NY-MNB) vs. SINGAPORE JET KEROSENE (PLATTS) SWAP FUTURES (NY-KS)						
Spread Credit Rate	Increase	+1:-1	40%	40%	44%	44%
MONT BELVIEU NORMAL BUTANE LDH (OPIS) SWAP FUTURES (NY-MNB) vs. SINGAPORE MOGAS 92 UNLEADED (PLATTS) SWAP FUTURES (NY-1N)						
Spread Credit Rate	Increase	+1:-1	47%	47%	54%	54%
MT BELVIEU NAT GAS 5 D. OPIS (NY-7Q) vs. SINGAPORE GASOIL SWAP (NY-SG)						
Spread Credit Rate	Increase	+1:-1	50%	50%	61%	61%
MT BELVIEU NORMAL BUTANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-D0) vs. SINGAPORE GASOIL (PLATTS) SWAP FUTURES (NY-SG)						
Spread Credit Rate	Increase	+1:-1	35%	35%	45%	45%
NY 3.0% FUEL OIL (PLATTS) SWAP FUTURES (NY-H1 - CME) vs CONWAY NATURAL GASOLINE (OPIS) SWAP FUTURES (NY-8L - CME)						
Spread Credit Rate	Increase	+1:-1	30%	30%	35%	35%
NY 3.0% FUEL OIL (PLATTS) SWAP FUTURES (NY-H1 - CME) vs CONWAY PROPANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-8K - CME)						
Spread Credit Rate	Increase	+1:-1	30%	30%	40%	40%
NY 3.0% FUEL OIL (PLATTS) SWAP FUTURES (NY-H1 - CME) vs MONT BELVIEU ISO-BUTANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-8I - CME)						
Spread Credit Rate	Increase	+1:-1	30%	30%	45%	45%
NY 3.0% FUEL OIL (PLATTS) SWAP FUTURES (NY-H1 - CME) vs MONT BELVIEU LDH PROPANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-B0 - CME)						
Spread Credit Rate	Increase	+1:-1	30%	30%	35%	35%
NY 3.0% FUEL OIL (PLATTS) SWAP FUTURES (NY-H1 - CME) vs MONT BELVIEU NATURAL GASOLINE 5 DECIMALS (OPIS) SWAP FUTURES (NY-7Q - 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						
NY 3.0% FUEL OIL (PLATTS) SWAP FUTURES (NY-H1 - CME) vs MONT BELVIEU NORMAL BUTANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-D0 - CME)						
Spread Credit Rate	Increase	+1:-1	35%	35%	45%	45%
NY 3.0% FUEL OIL (PLATTS) SWAP FUTURES (NY-H1 - CME) vs MONT BELVIEU NORMAL BUTANE LDH (OPIS) SWAP FUTURES (NY-MNB - CME)						
Spread Credit Rate	Increase	+1:-1	30%	30%	45%	45%
NY 3.0% FUEL OIL (PLATTS) SWAP FUTURES (NY-H1 - CME) vs PROPANE NON-LDH MONT BELVIEU (OPIS) SWAP FUTURES (NY-1R - CME)						
Spread Credit Rate	Increase	+1:-1	30%	30%	35%	35%
NY-MFF vs NY-9N						
Spread Credit Rate	Increase	+5:-1	30%	30%	40%	40%
PREMIUM UNLEADED GASOLINE 10 PPM (PLATTS) FOB MED SWAP FUTURES (NY-3G - CME) vs CONWAY NORMAL BUTANE (OPIS) SWAP FUTURES (NY-8M - CME)						
Spread Credit Rate	Increase	+2:-15	45%	45%	50%	50%
PROPANE NON-LDH MONT BELVIEU (OPIS) SWAP FUTURES (NY-1R - CME) vs 1% FUEL OIL (PLATTS) CARGOES CIF MED SWAP FUTURES (NY-1W - CME)						
Spread Credit Rate	Decrease	+19:-3	55%	55%	45%	45%
PROPANE NON-LDH MONT BELVIEU (OPIS) SWAP FUTURES (NY-1R - CME) vs EUROPEAN 1% FUEL OIL (PLATTS) BARGES FOB RDAM CALENDAR SWAP FUTURES (NY-UH - CME)						
Spread Credit Rate	Decrease	+15:-2	50%	50%	45%	45%
PROPANE NON-LDH MONT BELVIEU (OPIS) SWAP FUTURES (NY-1R - CME) vs EUROPEAN 1% FUEL OIL (PLATTS) CARGOES FOB NWE CALENDAR SWAP FUTURES (NY-UF - CME)						
Spread Credit Rate	Decrease	+15:-2	52%	52%	47%	47%
PROPANE NON-LDH MONT BELVIEU (OPIS) SWAP FUTURES (NY-1R - CME) vs EUROPEAN 3.5% FUEL OIL (PLATTS) BARGES FOB RDAM CALENDAR SWAP FUTURES (NY-UV - CME)						
Spread Credit Rate	Decrease	+19:-3	50%	50%	45%	45%
PROPANE NON-LDH MONT BELVIEU (OPIS) SWAP FUTURES (NY-1R - CME) vs GULF COAST ULSD (PLATTS) SWAP FUTURES (NY-LY - CME)						
Spread Credit Rate	Increase	+1:-1	40%	40%	43%	43%
PROPANE NON-LDH MONT BELVIEU (OPIS) SWAP FUTURES (NY-1R - CME) vs JAPAN C&F NAPHTHA (PLATTS) SWAP FUTURES (NY-JA - CME)						
Spread Credit Rate	Increase	+15:-2	52%	52%	55%	55%
PROPANE NON-LDH MONT BELVIEU (OPIS) SWAP FUTURES (NY-1R - CME) vs SINGAPORE FUEL OIL 180 CST (PLATTS) CALENDAR SWAP FUTURES (NY-UA - CME)						
Spread Credit Rate	Decrease	+19:-3	50%	50%	45%	45%
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%	45%	45%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
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%	42%	42%
SINGAPORE FUEL OIL 180 CST (PLATTS) CALENDAR SWAP FUTURES (NY-UA - CME) vs MONT BELVIEU NORMAL BUTANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-D0 - CME)						
Spread Credit Rate	Increase	+2:-15	46%	46%	50%	50%
SINGAPORE FUEL OIL 380 CST (PLATTS) SWAP FUTURES (NY-SE - CME) vs CONWAY NORMAL BUTANE (OPIS) SWAP FUTURES (NY-8M - CME)						
Spread Credit Rate	Increase	+3:-19	30%	30%	41%	41%
SINGAPORE FUEL OIL 380 CST (PLATTS) SWAP FUTURES (NY-SE - CME) vs CONWAY PROPANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-8K - CME)						
Spread Credit Rate	Decrease	+3:-19	45%	45%	43%	43%
SINGAPORE FUEL OIL 380 CST (PLATTS) SWAP FUTURES (NY-SE - CME) vs MONT BELVIEU NATURAL GASOLINE 5 DECIMALS (OPIS) SWAP FUTURES (NY-7Q - CME)						
Spread Credit Rate	Decrease	+3:-19	68%	68%	65%	65%
SINGAPORE FUEL OIL 380 CST (PLATTS) SWAP FUTURES (NY-SE - CME) vs MONT BELVIEU NORMAL BUTANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-D0 - CME)						
Spread Credit Rate	Increase	+3:-19	50%	50%	55%	55%
SINGAPORE JET KEROSENE SWAP (NY-KS) vs. MT BELVIEU NAT GAS 5 D. OPIS (NY-7Q)						
Spread Credit Rate	Decrease	+1:-1	65%	65%	57%	57%
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	New	+1:-1			35%	35%
Spread Credit Rate	Increase	+1:-1	30%	30%	40%	40%
SINGAPORE MOGAS 92 UNLEADED (PLATTS) SWAP FUTURES (NY-1N - CME) vs MONT BELVIEU NATURAL GASOLINE 5 DECIMALS (OPIS) SWAP FUTURES (NY-7Q - CME)						
Spread Credit Rate	Increase	+1:-1	55%	55%	57%	57%
PETROLEUM CRACKS AND SPREADS - Inter-commodity Spread Rates						
DIESEL 10PPM (PLATTS) BARGES FOB RDAM VS. ICE GASOIL BALMO SWAP FUTURES (NY-7X - CME) vs EUROPEAN GASOIL 10 PPM (PLATTS) BARGES FOB RDAM VS. GASOIL FUTURES SWAP (NY-ET - CME)						
Spread Credit Rate	Decrease	+1:-1	75%	75%	70%	70%

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						
GULF COAST NO. 6 FUEL OIL 3.0% (PLATTS) SWAP FUTURES (NY-MF - CME) vs EIA FLAT TAX U.S. RETAIL GASOLINE SWAP FUTURES (NY-JE - CME)						
Spread Credit Rate	New	+1:-1			30%	30%
Spread Credit Rate	New	+1:-1			20%	20%
1% FUEL OIL (PLATTS) CARGOES CIF MED SWAP FUTURES (NY-1W - CME) vs ARGUS PROPANE (SAUDI ARAMCO) SWAP FUTURES (NY-9N - CME)						
Spread Credit Rate	Decrease	+1:-1	55%	55%	48%	48%
1% FUEL OIL (PLATTS) CARGOES CIF MED SWAP FUTURES (NY-1W - CME) vs ARGUS PROPANE FAR EAST INDEX SWAP FUTURES (NY-7E - CME)						
Spread Credit Rate	Decrease	+1:-1	50%	50%	45%	45%
1% FUEL OIL (PLATTS) CARGOES CIF MED SWAP FUTURES (NY-1W - CME) vs BRENT CRUDE OIL PENULTIMATE FINANCIAL FUTURES (NY-BB - CME)						
Spread Credit Rate	Decrease	+2:-15	80%	80%	75%	75%
1% FUEL OIL (PLATTS) CARGOES CIF MED SWAP FUTURES (NY-1W - CME) vs CHICAGO ETHANOL (PLATTS) SWAP FUTURES (NY-CU - CME)						
Spread Credit Rate	Increase	+2:-15	30%	30%	34%	34%
1% FUEL OIL (PLATTS) CARGOES CIF MED SWAP FUTURES (NY-1W - CME) vs COAL (API 4) FOB RICHARDS BAY (ARGUS/MCCLOSKEY) SWAP FUTURES (NY-MFF - CME)						
Spread Credit Rate	Increase	+2:-15	25%	25%	30%	30%
Spread Credit Rate	Increase	+15:-2	25%	25%	30%	30%
1% FUEL OIL (PLATTS) CARGOES CIF MED SWAP FUTURES (NY-1W - CME) vs CONWAY NATURAL GASOLINE (OPIS) SWAP FUTURES (NY-8L - CME)						
Spread Credit Rate	Decrease	+2:-15	60%	60%	50%	50%
1% FUEL OIL (PLATTS) CARGOES CIF MED SWAP FUTURES (NY-1W - CME) vs CONWAY PROPANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-8K - CME)						
Spread Credit Rate	Decrease	+2:-15	50%	50%	40%	40%
1% FUEL OIL (PLATTS) CARGOES CIF MED SWAP FUTURES (NY-1W - CME) vs DATED BRENT (PLATTS) CALENDAR SWAP FUTURES (NY-UB - CME)						
Spread Credit Rate	Decrease	+3:-19	80%	80%	77%	77%
1% FUEL OIL (PLATTS) CARGOES CIF MED SWAP FUTURES (NY-1W - CME) vs EUROPEAN 1% FUEL OIL (PLATTS) BARGES FOB RDAM CALENDAR SWAP FUTURES (NY-UH - CME)						
Spread Credit Rate	Increase	+1:-1	90%	90%	92%	92%
1% FUEL OIL (PLATTS) CARGOES CIF MED SWAP FUTURES (NY-1W - CME) vs EUROPEAN 1% FUEL OIL CARGOES FOB MED (PLATTS) SWAP FUTURES (NY-EFM - CME)						
Spread Credit Rate	Increase	+1:-1	90%	90%	91%	91%
1% FUEL OIL (PLATTS) CARGOES CIF MED SWAP FUTURES (NY-1W - CME) vs EUROPEAN 3.5% FUEL OIL (PLATTS) BARGES FOB RDAM CALENDAR SWAP FUTURES (NY-UV - CME)						
Spread Credit Rate	Increase	+1:-1	85%	85%	88%	88%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
1% FUEL OIL (PLATTS) CARGOES CIF MED SWAP FUTURES (NY-1W - CME) vs EUROPEAN NAPHTHA (PLATTS) CALENDAR SWAP FUTURES (NY-UN - CME)						
Spread Credit Rate	Decrease	+1:-1	70%	70%	65%	65%
1% FUEL OIL (PLATTS) CARGOES CIF MED SWAP FUTURES (NY-1W - CME) vs EUROPEAN PROPANE CIF ARA (ARGUS) SWAP FUTURES (NY-PS - CME)						
Spread Credit Rate	Decrease	+1:-1	55%	55%	47%	47%
1% FUEL OIL (PLATTS) CARGOES CIF MED SWAP FUTURES (NY-1W - CME) vs GASOIL 0.1 (PLATTS) BARGES FOB RDAM SWAP FUTURES (NY-VL - CME)						
Spread Credit Rate	Increase	+1:-1	40%	40%	46%	46%
1% FUEL OIL (PLATTS) CARGOES CIF MED SWAP FUTURES (NY-1W - CME) vs GASOLINE EURO-BOB OXY (ARGUS) NWE BARGES SWAP FUTURES (NY-7H - CME)						
Spread Credit Rate	Increase	+1:-1	55%	55%	60%	60%
1% FUEL OIL (PLATTS) CARGOES CIF MED SWAP FUTURES (NY-1W - CME) vs GULF COAST NO. 6 FUEL OIL 3.0% (PLATTS) SWAP FUTURES (NY-MF - CME)						
Spread Credit Rate	Increase	+3:-19	85%	85%	88%	88%
1% FUEL OIL (PLATTS) CARGOES CIF MED SWAP FUTURES (NY-1W - CME) vs JAPAN C&F NAPHTHA (PLATTS) SWAP FUTURES (NY-JA - CME)						
Spread Credit Rate	Decrease	+1:-1	70%	70%	68%	68%
1% FUEL OIL (PLATTS) CARGOES CIF MED SWAP FUTURES (NY-1W - CME) vs LIGHT SWEET CRUDE OIL FUTURES (NY-CL - CME)						
Spread Credit Rate	Decrease	+3:-19	76%	76%	74%	74%
1% FUEL OIL (PLATTS) CARGOES CIF MED SWAP FUTURES (NY-1W - CME) vs MONT BELVIEU ISO-BUTANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-8I - CME)						
Spread Credit Rate	Increase	+2:-15	40%	40%	45%	45%
Spread Credit Rate	Increase	+2:-15	25%	25%	30%	30%
1% FUEL OIL (PLATTS) CARGOES CIF MED SWAP FUTURES (NY-1W - CME) vs MONT BELVIEU NATURAL GASOLINE 5 DECIMALS (OPIS) SWAP FUTURES (NY-7Q - CME)						
Spread Credit Rate	Decrease	+2:-15	70%	70%	63%	63%
1% FUEL OIL (PLATTS) CARGOES CIF MED SWAP FUTURES (NY-1W - CME) vs MONT BELVIEU NORMAL BUTANE LDH (OPIS) SWAP FUTURES (NY-MNB - CME)						
Spread Credit Rate	Increase	+2:-15	30%	30%	51%	51%
1% FUEL OIL (PLATTS) CARGOES CIF MED SWAP FUTURES (NY-1W - CME) vs NEW YORK HARBOR RESIDUAL FUEL 1.0% (PLATTS) SWAP FUTURES (NY-MM - CME)						
Spread Credit Rate	Increase	+3:-19	85%	85%	87%	87%
1% FUEL OIL (PLATTS) CARGOES CIF MED SWAP FUTURES (NY-1W - CME) vs NY 0.3% FUEL OIL HIPR (PLATTS) SWAP FUTURES (NY-8N - CME)						
Spread Credit Rate	New	+2:-15			40%	40%
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						
1% FUEL OIL (PLATTS) CARGOES CIF MED SWAP FUTURES (NY-1W - CME) vs NY 2.2% FUEL OIL (PLATTS) SWAP FUTURES (NY-Y3 - CME)						
Spread Credit Rate	Increase	+2:-15	30%	30%	45%	45%
Spread Credit Rate	Increase	+2:-15	45%	45%	65%	65%
1% FUEL OIL (PLATTS) CARGOES CIF MED SWAP FUTURES (NY-1W - CME) vs NY 3.0% FUEL OIL (PLATTS) SWAP FUTURES (NY-H1 - CME)						
Spread Credit Rate	Increase	+2:-15	75%	75%	80%	80%
1% FUEL OIL (PLATTS) CARGOES CIF MED SWAP FUTURES (NY-1W - CME) vs OMAN CRUDE OIL (NY-OQ - CME)						
Spread Credit Rate	Decrease	+2:-15	80%	80%	78%	78%
1% FUEL OIL (PLATTS) CARGOES CIF MED SWAP FUTURES (NY-1W - CME) vs PREMIUM UNLEADED GASOLINE 10 PPM (PLATTS) BARGES FOB RDAM SWAP FUTURES (NY-7L - CME)						
Spread Credit Rate	New	+1:+1			50%	50%
1% FUEL OIL (PLATTS) CARGOES CIF MED SWAP FUTURES (NY-1W - CME) vs SINGAPORE FUEL OIL 180 CST (PLATTS) CALENDAR SWAP FUTURES (NY-UA - CME)						
Spread Credit Rate	Increase	+1:-1	85%	85%	88%	88%
1% FUEL OIL (PLATTS) CARGOES CIF MED SWAP FUTURES (NY-1W - CME) vs SINGAPORE FUEL OIL 380 CST (PLATTS) SWAP FUTURES (NY-SE - CME)						
Spread Credit Rate	Increase	+1:-1	80%	80%	85%	85%
Spread Credit Rate	Increase	+1:-1	85%	85%	90%	90%
1% FUEL OIL (PLATTS) CARGOES CIF MED SWAP FUTURES (NY-1W - CME) vs SINGAPORE JET KEROSENE (PLATTS) SWAP FUTURES (NY-KS - CME)						
Spread Credit Rate	Increase	+2:-15	50%	50%	54%	54%
1% FUEL OIL (PLATTS) CARGOES CIF NWE SWAP FUTURES (NY-1X - CME) vs 3.5% FUEL OIL (PLATTS) CIF MED SWAP FUTURES (NY-7D - CME)						
Spread Credit Rate	Increase	+1:-1	83%	83%	86%	86%
1% FUEL OIL (PLATTS) CARGOES CIF NWE SWAP FUTURES (NY-1X - CME) vs EUROPEAN 3.5% FUEL OIL (PLATTS) BARGES FOB RDAM CALENDAR SWAP FUTURES (NY-UV - CME)						
Spread Credit Rate	Increase	+1:-1	85%	85%	87%	87%
1% FUEL OIL (PLATTS) CARGOES CIF NWE SWAP FUTURES (NY-1X - CME) vs EUROPEAN 3.5% FUEL OIL (PLATTS) CARGOES FOB MED CALENDAR SWAP FUTURES (NY-UI - CME)						
Spread Credit Rate	Increase	+1:-1	85%	85%	87%	87%
1% FUEL OIL (PLATTS) CARGOES CIF NWE SWAP FUTURES (NY-1X - CME) vs EUROPEAN JET KEROSENE (PLATTS) CARGOES CIF NWE CALENDAR SWAP FUTURES (NY-UJ - CME)						
Spread Credit Rate	Increase	+1:-1	50%	50%	54%	54%
3.5% FUEL OIL (PLATTS) CIF MED SWAP FUTURES (NY-7D - CME) vs GASOLINE EURO-BOB OXY (ARGUS) NWE BARGES SWAP FUTURES (NY-7H - CME)						
Spread Credit Rate	Increase	+1:-1	55%	55%	57%	57%
ARGUS PROPAN(SAUDI ARAMCO) SWP (NY-9N - CME) vs EUROPE NAPHTHA CALSWAP (NY-UN - CME)						
Spread Credit Rate	Increase	+1:-1	49%	49%	57%	57%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
ARGUS PROPANE (SAUDI ARAMCO) SWAP FUTURES (NY-9N - CME) vs EIA FLAT TAX ON-HIGHWAY DIESEL SWAP FUTURES (NY-A5 - CME)						
Spread Credit Rate	Increase	+1:-12	45%	45%	56%	56%
ARGUS PROPANE (SAUDI ARAMCO) SWAP FUTURES (NY-9N - CME) vs EUROPEAN 3.5% FUEL OIL (PLATTS) BARGES FOB RDAM CALENDAR SWAP FUTURES (NY-UV - CME)						
Spread Credit Rate	Increase	+1:-1	35%	35%	42%	42%
ARGUS PROPANE (SAUDI ARAMCO) SWAP FUTURES (NY-9N - CME) vs GASOLINE EURO-BOB OXY (ARGUS) NWE BARGES SWAP FUTURES (NY-7H - CME)						
Spread Credit Rate	Increase	+1:-1	40%	40%	45%	45%
ARGUS PROPANE (SAUDI ARAMCO) SWAP FUTURES (NY-9N - CME) vs GULF COAST JET FUEL (PLATTS) CALENDAR SWAP FUTURES (NY-GE - CME)						
Spread Credit Rate	Increase	+1:-12	45%	45%	48%	48%
ARGUS PROPANE (SAUDI ARAMCO) SWAP FUTURES (NY-9N - CME) vs GULF COAST NO. 6 FUEL OIL 3.0% (PLATTS) SWAP FUTURES (NY-MF - CME)						
Spread Credit Rate	Increase	+1:-12	40%	40%	55%	55%
ARGUS PROPANE (SAUDI ARAMCO) SWAP FUTURES (NY-9N - CME) vs GULF COAST ULSD (PLATTS) SWAP FUTURES (NY-LY - CME)						
Spread Credit Rate	Increase	+1:-12	40%	40%	55%	55%
ARGUS PROPANE (SAUDI ARAMCO) SWAP FUTURES (NY-9N - CME) vs JAPAN C&F NAPHTHA (PLATTS) SWAP FUTURES (NY-JA - CME)						
Spread Credit Rate	Increase	+1:-1	50%	50%	57%	57%
ARGUS PROPANE (SAUDI ARAMCO) SWAP FUTURES (NY-9N - CME) vs NEW YORK HARBOR RESIDUAL FUEL 1.0% (PLATTS) SWAP FUTURES (NY-MM - CME)						
Spread Credit Rate	Increase	+1:-12	50%	50%	53%	53%
ARGUS PROPANE (SAUDI ARAMCO) SWAP FUTURES (NY-9N - CME) vs NY 3.0% FUEL OIL (PLATTS) SWAP FUTURES (NY-H1 - CME)						
Spread Credit Rate	Increase	+1:-12	30%	30%	45%	45%
ARGUS PROPANE (SAUDI ARAMCO) SWAP FUTURES (NY-9N - CME) vs PREMIUM UNLEADED GASOLINE 10 PPM (PLATTS) FOB MED SWAP FUTURES (NY-3G - CME)						
Spread Credit Rate	Increase	+1:-1	35%	35%	40%	40%
ARGUS PROPANE (SAUDI ARAMCO) SWAP FUTURES (NY-9N - CME) vs SINGAPORE FUEL OIL 380 CST (PLATTS) SWAP FUTURES (NY-SE - CME)						
Spread Credit Rate	Increase	+1:-1	42%	42%	45%	45%
ARGUS PROPANE (SAUDI ARAMCO) SWAP FUTURES (NY-9N - CME) vs SINGAPORE GASOIL (PLATTS) SWAP FUTURES (NY-SG - CME)						
Spread Credit Rate	Increase	+1:-12	41%	41%	50%	50%
ARGUS PROPANE (SAUDI ARAMCO) SWAP FUTURES (NY-9N - CME) vs SINGAPORE MOGAS 92 UNLEADED (PLATTS) SWAP FUTURES (NY-1N - CME)						
Spread Credit Rate	Increase	+1:-12	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						
ARGUS PROPANE FAR EAST INDEX SWAP FUTURES (NY-7E - CME) vs EUROPEAN 1% FUEL OIL (PLATTS) BARGES FOB RDAM CALENDAR SWAP FUTURES (NY-UH - CME)						
Spread Credit Rate	Increase	+1:-1	35%	35%	40%	40%
ARGUS PROPANE FAR EAST INDEX SWAP FUTURES (NY-7E - CME) vs GULF COAST NO. 6 FUEL OIL 3.0% (PLATTS) SWAP FUTURES (NY-MF - CME)						
Spread Credit Rate	Decrease	+1:-12	55%	55%	52%	52%
ARGUS PROPANE FAR EAST INDEX SWAP FUTURES (NY-7E - CME) vs GULF COAST ULSD (PLATTS) SWAP FUTURES (NY-LY - CME)						
Spread Credit Rate	Increase	+1:-12	45%	45%	47%	47%
ARGUS PROPANE FAR EAST INDEX SWAP FUTURES (NY-7E - CME) vs JAPAN C&F NAPHTHA (PLATTS) SWAP FUTURES (NY-JA - CME)						
Spread Credit Rate	Increase	+1:-1	50%	50%	54%	54%
ARGUS PROPANE FAR EAST INDEX SWAP FUTURES (NY-7E - CME) vs NY 3.0% FUEL OIL (PLATTS) SWAP FUTURES (NY-H1 - CME)						
Spread Credit Rate	New	+1:-12			35%	35%
Spread Credit Rate	Increase	+1:-12	30%	30%	45%	45%
ARGUS PROPANE FAR EAST INDEX SWAP FUTURES (NY-7E - CME) vs SINGAPORE GASOIL (PLATTS) SWAP FUTURES (NY-SG - CME)						
Spread Credit Rate	New	+1:-12			35%	35%
Spread Credit Rate	Increase	+1:-12	30%	30%	46%	46%
ARGUS PROPANE FAR EAST INDEX SWAP FUTURES (NY-7E - CME) vs SINGAPORE JET KEROSENE (PLATTS) SWAP FUTURES (NY-KS - CME)						
Spread Credit Rate	Increase	+1:-12	35%	35%	39%	39%
ARGUS PROPANE FAR EAST INDEX SWAP FUTURES (NY-7E - CME) vs SINGAPORE MOGAS 92 UNLEADED (PLATTS) SWAP FUTURES (NY-1N - CME)						
Spread Credit Rate	Increase	+1:-12	40%	40%	47%	47%
BRENT CRUDE OIL BULLET SWAP FINANCIAL (NYM-BB, BZ, CY) vs EUROPEAN 3.5% FUEL OIL ROTTERDAM BALMO CALENDAR SWAP (NYM-UV - CME)						
Spread Credit Rate	Decrease	+19:-3	82%	82%	78%	78%
Spread Credit Rate	Decrease	+19:-3	85%	85%	83%	83%
BRENT CRUDE OIL BULLET SWAP FINANCIAL (NYM-BB, BZ, CY) vs JAPAN C&F NAPHTHA (PLATTS) SWAP (NYM-JA - CME)						
Spread Credit Rate	Decrease	+9:-1	83%	83%	80%	80%
BRENT CRUDE OIL BULLET SWAP FINANCIAL (NYM-BB, BZ, CY) vs SINGAPORE 380CST FUEL OIL (PLATTS) SWAP (NYM-SE - CME)						
Spread Credit Rate	Decrease	+19:-3	81%	81%	76%	76%
BRENT CRUDE OIL BULLET SWAP FINANCIAL (NYM-BB, BZ, CY) vs SINGAPORE FUEL OIL 180CST CALENDAR SWAP (NYM-UA - CME)						
Spread Credit Rate	Decrease	+33:-5	78%	78%	75%	75%
Spread Credit Rate	Decrease	+33:-5	80%	80%	78%	78%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
BRENT CRUDE OIL BULLET SWAP FINANCIAL (NYM-BB, BZ, CY) vs SINGAPORE JET KEROSENE SWAP (NYM-KS - CME)						
Spread Credit Rate	Increase	+1:-1	55%	55%	58%	58%
BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME) vs EUROPEAN GASOIL BULLET SWAP FUTURES (NY-BG - CME)						
Spread Credit Rate	Decrease	+15:-2	75%	75%	70%	70%
Spread Credit Rate	Decrease	+15:-2	72%	72%	68%	68%
BRENT CRUDE OIL PENULTIMATE FINANCIAL FUTURES (NY-BB - CME) vs EUROPEAN 3.5% FUEL OIL (PLATTS) BARGES FOB RDAM CALENDAR SWAP FUTURES (NY-UV - CME)						
Spread Credit Rate	Decrease	+19:-3	85%	85%	83%	83%
BRENT CRUDE OIL PENULTIMATE FINANCIAL FUTURES (NY-BB - CME) vs EUROPEAN JET KEROSENE (PLATTS) CARGOES CIF NWE CALENDAR SWAP FUTURES (NY-UJ - CME)						
Spread Credit Rate	Increase	+8:-1	60%	60%	62%	62%
BRENT CRUDE OIL PENULTIMATE FINANCIAL FUTURES (NY-BB - CME) vs GULF COAST NO. 6 FUEL OIL 3.0% (PLATTS) SWAP FUTURES (NY-MF - CME)						
Spread Credit Rate	Decrease	+1:-1	80%	80%	78%	78%
Spread Credit Rate	Decrease	+1:-1	85%	85%	83%	83%
BRENT CRUDE OIL PENULTIMATE FINANCIAL FUTURES (NY-BB - CME) vs NEW YORK HARBOR RESIDUAL FUEL 1.0% (PLATTS) SWAP FUTURES (NY-MM - CME)						
Spread Credit Rate	Decrease	+1:-1	80%	80%	77%	77%
BRENT CRUDE OIL PENULTIMATE FINANCIAL FUTURES (NY-BB - CME) vs NY 3.0% FUEL OIL (PLATTS) SWAP FUTURES (NY-H1 - CME)						
Spread Credit Rate	Decrease	+1:-1	80%	80%	76%	76%
BRENT CRUDE OIL PENULTIMATE FINANCIAL FUTURES (NY-BB, BZ, CY) vs GASOIL 0.1 (PLATTS) BARGES FOB RDAM SWAP FUTURES (NY-VL - CME)						
Spread Credit Rate	Decrease	+15:-2	65%	65%	60%	60%
CHICAGO ETHANOL (PLATTS) SWAP FUTURES (NY-CU - CME) vs NEW YORK HARBOR RESIDUAL FUEL 1.0% (PLATTS) SWAP FUTURES (NY-MM - CME)						
Spread Credit Rate	Decrease	+1:-1	45%	45%	35%	35%
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	Increase	+1:-1	60%	60%	65%	65%
CHICAGO ULSD (PLATTS) SWAP FUTURES (NY-4C - CME) vs LOS ANGELES CARB DIESEL (OPIS) OUTRIGHT SWAP FUTURES (NY-LX - CME)						
Spread Credit Rate	Decrease	+1:-1	75%	75%	70%	70%
CHICAGO ULSD (PLATTS) SWAP FUTURES (NY-4C - CME) vs NY 3.0% FUEL OIL (PLATTS) SWAP FUTURES (NY-H1 - CME)						
Spread Credit Rate	Decrease	+1:-1	70%	70%	63%	63%
CHICAGO UNLEADED GASOLINE (PLATTS) SWAP FUTURES (NY-2C - CME) vs RBOB GASOLINE FUTURES (NY-RB, RL, RT)						
Spread Credit Rate	Increase	+1:-1	45%	45%	51%	51%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
COAL (API 2) CIF ARA (ARGUS/MCCLOSKEY) SWAP FUTURES (NY-MTF - CME) vs 1% FUEL OIL (PLATTS) CARGOES CIF MED SWAP FUTURES (NY-1W - CME)						
Spread Credit Rate	Decrease	+2:-15	20%	20%	10%	10%
COAL (API 2) CIF ARA (ARGUS/MCCLOSKEY) SWAP FUTURES (NY-MTF - CME) vs EUROPEAN GASOIL (ICE) SWAP FUTURES (NY-GX - CME)						
Spread Credit Rate	Decrease	+1:-1	40%	40%	0%	0%
COAL (API 2) CIF ARA (ARGUS/MCCLOSKEY) SWAP FUTURES (NY-MTF - CME) vs JAPAN C&F NAPHTHA (PLATTS) SWAP FUTURES (NY-JA - CME)						
Spread Credit Rate	Decrease	+9:-1	30%	30%	20%	20%
COAL (API 2) CIF ARA (ARGUS/MCCLOSKEY) SWAP FUTURES (NY-MTF - CME) vs SINGAPORE FUEL OIL 380 CST (PLATTS) SWAP FUTURES (NY-SE - CME)						
Spread Credit Rate	Increase	+6:-1	25%	25%	30%	30%
COAL (API 4) FOB RICHARDS BAY (ARGUS/MCCLOSKEY) SWAP FUTURES (NY-MFF - CME) vs GULF COAST JET FUEL (PLATTS) CALENDAR SWAP FUTURES (NY-GE - CME)						
Spread Credit Rate	Increase	+1:-1	25%	25%	30%	30%
COAL (API 4) FOB RICHARDS BAY (ARGUS/MCCLOSKEY) SWAP FUTURES (NY-MFF - CME) vs SINGAPORE FUEL OIL 180 CST (PLATTS) CALENDAR SWAP FUTURES (NY-UA - CME)						
Spread Credit Rate	Increase	+6:-1	25%	25%	40%	40%
COAL (API 4) FOB RICHARDS BAY (ARGUS/MCCLOSKEY) SWAP FUTURES (NY-MFF - CME) vs SINGAPORE FUEL OIL 380 CST (PLATTS) SWAP FUTURES (NY-SE - CME)						
Spread Credit Rate	Increase	+6:-1	25%	25%	35%	35%
CONWAY NATURAL GASOLINE (OPIS) SWAP FUTURES (NY-8L - CME) vs EUROPEAN 3.5% FUEL OIL (PLATTS) BARGES FOB RDAM CALENDAR SWAP FUTURES (NY-UV - CME)						
Spread Credit Rate	Decrease	+19:-3	55%	55%	48%	48%
CONWAY NATURAL GASOLINE (OPIS) SWAP FUTURES (NY-8L - CME) vs GASOLINE EURO-BOB OXY (ARGUS) NWE BARGES SWAP FUTURES (NY-7H - CME)						
Spread Credit Rate	Increase	+25:-3	30%	30%	35%	35%
CONWAY NATURAL GASOLINE (OPIS) SWAP FUTURES (NY-8L - CME) vs GULF COAST NO. 6 FUEL OIL 3.0% (PLATTS) SWAP FUTURES (NY-MF - CME)						
Spread Credit Rate	Decrease	+1:-1	55%	55%	45%	45%
CONWAY NATURAL GASOLINE (OPIS) SWAP FUTURES (NY-8L - CME) vs GULF COAST ULSD (PLATTS) SWAP FUTURES (NY-LY - CME)						
Spread Credit Rate	Increase	+1:-1	40%	40%	46%	46%
CONWAY NATURAL GASOLINE (OPIS) SWAP FUTURES (NY-8L - CME) vs SINGAPORE FUEL OIL 380 CST (PLATTS) SWAP FUTURES (NY-SE - CME)						
Spread Credit Rate	Decrease	+19:-3	51%	51%	45%	45%
CONWAY NATURAL GASOLINE (OPIS) SWAP FUTURES (NY-8L - CME) vs SINGAPORE MOGAS 92 UNLEADED (PLATTS) SWAP FUTURES (NY-1N - CME)						
Spread Credit Rate	New	+1:-1			30%	30%
Spread Credit Rate	Increase	+1:-1	25%	25%	40%	40%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
CONWAY NORMAL BUTANE (OPIS) SWAP FUTURES (NY-8M - CME) vs 1% FUEL OIL (PLATTS) CARGOES CIF MED SWAP FUTURES (NY-1W - CME)						
Spread Credit Rate	Decrease	+15:-2	40%	40%	37%	37%
CONWAY NORMAL BUTANE (OPIS) SWAP FUTURES (NY-8M - CME) vs EUROPEAN NAPHTHA (PLATTS) CALENDAR SWAP FUTURES (NY-UN - CME)						
Spread Credit Rate	Increase	+9:-1	40%	40%	46%	46%
CONWAY NORMAL BUTANE (OPIS) SWAP FUTURES (NY-8M - CME) vs GULF COAST JET FUEL (PLATTS) CALENDAR SWAP FUTURES (NY-GE - CME)						
Spread Credit Rate	Increase	+1:-1	35%	35%	40%	40%
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			38%	38%
Spread Credit Rate	Increase	+1:-1	25%	25%	30%	30%
CONWAY NORMAL BUTANE (OPIS) SWAP FUTURES (NY-8M - CME) vs NEW YORK HARBOR RESIDUAL FUEL 1.0% (PLATTS) SWAP FUTURES (NY-MM - CME)						
Spread Credit Rate	Increase	+1:-1	30%	30%	36%	36%
CONWAY NORMAL BUTANE (OPIS) SWAP FUTURES (NY-8M - CME) vs SINGAPORE FUEL OIL 180 CST (PLATTS) CALENDAR SWAP FUTURES (NY-UA - CME)						
Spread Credit Rate	Increase	+15:-2	35%	35%	39%	39%
CONWAY NORMAL BUTANE (OPIS) SWAP FUTURES (NY-8M - CME) vs SINGAPORE GASOIL (PLATTS) SWAP FUTURES (NY-SG - CME)						
Spread Credit Rate	Decrease	+1:-1	58%	58%	53%	53%
CONWAY NORMAL BUTANE (OPIS) SWAP FUTURES (NY-8M - CME) vs SINGAPORE MOGAS 92 UNLEADED (PLATTS) SWAP FUTURES (NY-1N - CME)						
Spread Credit Rate	Increase	+1:-1	35%	35%	44%	44%
CONWAY PROPANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-8K - CME) vs GULF COAST NO. 6 FUEL OIL 3.0% (PLATTS) SWAP FUTURES (NY-MF - CME)						
Spread Credit Rate	Increase	+1:-1	40%	40%	42%	42%
CONWAY PROPANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-8K) vs. GULF COAST ULSD (PLATTS) SWAP FUTURES (NY-LY)						
Spread Credit Rate	Increase	+1:-1	30%	30%	39%	39%
CONWAY PROPANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-8K) vs. SINGAPORE GASOIL (PLATTS) SWAP FUTURES (NY-SG)						
Spread Credit Rate	New	+1:-1			30%	30%
Spread Credit Rate	Increase	+1:-1	25%	25%	37%	37%
CONWAY PROPANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-8K) vs. SINGAPORE MOGAS 92 UNLEADED (PLATTS) SWAP FUTURES (NY-1N)						
Spread Credit Rate	Increase	+1:-1	20%	20%	41%	41%
Spread Credit Rate	Increase	+1:-1	20%	20%	35%	35%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
DATED BRENT (PLATTS) CALENDAR SWAP FUTURES (NY-UB - CME) vs SINGAPORE GASOIL (PLATTS) SWAP FUTURES (NY-SG - CME)						
Spread Credit Rate	Increase	+1:-1	54%	54%	65%	65%
DATED BRENT (PLATTS) CALENDAR SWAP FUTURES (NY-UB - CME) vs SINGAPORE MOGAS 92 UNLEADED (PLATTS) SWAP FUTURES (NY-1N - CME)						
Spread Credit Rate	Increase	+1:-1	50%	50%	60%	60%
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)						
Spread Credit Rate	Increase	+1:-1	78%	78%	82%	82%
DUBAI CRUDE OIL (PLATTS) CALENDAR SWAP FUTURES (NY-DC - CME) vs JAPAN C&F NAPHTHA (PLATTS) SWAP FUTURES (NY-JA - CME)						
Spread Credit Rate	Decrease	+9:-1	80%	80%	78%	78%
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%	79%	79%
DUBAI CRUDE OIL (PLATTS) CALENDAR SWAP FUTURES (NY-DC - CME) vs NY 0.3% FUEL OIL HIPR (PLATTS) SWAP FUTURES (NY-8N - CME)						
Spread Credit Rate	Increase	+1:-1	35%	35%	50%	50%
DUBAI CRUDE OIL (PLATTS) CALENDAR SWAP FUTURES (NY-DC - CME) vs NY 3.0% FUEL OIL (PLATTS) SWAP FUTURES (NY-H1 - CME)						
Spread Credit Rate	Decrease	+1:-1	80%	80%	78%	78%
DUBAI CRUDE OIL (PLATTS) CALENDAR SWAP FUTURES (NY-DC - CME) vs SINGAPORE FUEL OIL 380 CST (PLATTS) SWAP FUTURES (NY-SE - CME)						
Spread Credit Rate	Increase	+19:-3	75%	75%	77%	77%
DUBAI CRUDE OIL (PLATTS) CALENDAR SWAP FUTURES (NY-DC - CME) vs SINGAPORE MOGAS 95 UNLEADED (PLATTS) SWAP FUTURES (NY-V0 - CME)						
Spread Credit Rate	Increase	+1:-1	70%	70%	75%	75%
DUBAI CRUDE OIL (PLATTS) CALENDAR SWAP FUTURES (NY-DC - CME) vs SINGAPORE MOGAS 97 UNLEADED (PLATTS) SWAP FUTURES (NY-X0 - CME)						
Spread Credit Rate	Increase	+1:-1	60%	60%	70%	70%
DUBAI CRUDE OIL CALENDAR SWAP (NYM-DC - CME) vs JAPAN C&F NAPHTHA (PLATTS) SWAP (NYM-JA - CME)						
Spread Credit Rate	Decrease	+9:-1	80%	80%	78%	78%
DUBAI CRUDE OIL CALENDAR SWAP (NYM-DC - CME) vs SINGAPORE GASOIL SWAP (NYM-SG - CME)						
Spread Credit Rate	Increase	+1:-1	60%	60%	68%	68%
DUBAI CRUDE OIL CALENDAR SWAP (NYM-DC - CME) vs SINGAPORE JET KEROSENE SWAP (NYM-KS - CME)						
Spread Credit Rate	Increase	+1:-1	55%	55%	59%	59%
DUBAI CRUDE OIL CALENDAR SWAP (NYM-DC - CME) vs SINGAPORE NAPHTHA SWAP (NYM-SP - CME)						
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
Inter-commodity Spread Rates						
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	70%	70%	75%	75%
EIA FLAT TAX ON-HIGHWAY DIESEL SWAP FUTURES (NY-A5 - CME) vs DATED BRENT (PLATTS) CALENDAR SWAP FUTURES (NY-UB - CME)						
Spread Credit Rate	Increase	+1:-1	70%	70%	74%	74%
EIA FLAT TAX ON-HIGHWAY DIESEL SWAP FUTURES (NY-A5 - CME) vs DUBAI CRUDE OIL (PLATTS) CALENDAR SWAP FUTURES (NY-DC - CME)						
Spread Credit Rate	Increase	+1:-1	70%	70%	76%	76%
EIA FLAT TAX ON-HIGHWAY DIESEL SWAP FUTURES (NY-A5 - CME) vs EUROPEAN 1% FUEL OIL (PLATTS) CARGOES FOB NWE CALENDAR SWAP FUTURES (NY-UF - CME)						
Spread Credit Rate	Increase	+15:-2	60%	60%	64%	64%
EIA FLAT TAX ON-HIGHWAY DIESEL SWAP FUTURES (NY-A5 - 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%	69%	69%
EIA FLAT TAX ON-HIGHWAY DIESEL SWAP FUTURES (NY-A5 - CME) vs EUROPEAN NAPHTHA (PLATTS) CALENDAR SWAP FUTURES (NY-UN - CME)						
Spread Credit Rate	Increase	+9:-1	68%	68%	77%	77%
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	+25:-3	70%	70%	78%	78%
EIA FLAT TAX ON-HIGHWAY DIESEL SWAP FUTURES (NY-A5 - CME) vs GULF COAST NO. 6 FUEL OIL 3.0% (PLATTS) SWAP FUTURES (NY-MF - CME)						
Spread Credit Rate	Increase	+1:-1	60%	60%	65%	65%
EIA FLAT TAX ON-HIGHWAY DIESEL SWAP FUTURES (NY-A5 - CME) vs GULF COAST ULSD (PLATTS) SWAP FUTURES (NY-LY - CME)						
Spread Credit Rate	Increase	+1:-1	70%	70%	80%	80%
EIA FLAT TAX ON-HIGHWAY DIESEL SWAP FUTURES (NY-A5 - CME) vs NEW YORK HARBOR NO. 2 HEATING OIL FUTURES (NY-HO, BH, MP)						
Spread Credit Rate	Increase	+1:-1	75%	75%	80%	80%
EIA FLAT TAX ON-HIGHWAY DIESEL SWAP FUTURES (NY-A5 - CME) vs OMAN CRUDE OIL (NY-OQ - CME)						
Spread Credit Rate	Increase	+1:-1	65%	65%	75%	75%
EIA FLAT TAX ON-HIGHWAY DIESEL SWAP FUTURES (NY-A5 - CME) vs RBOB GASOLINE FUTURES (NY-RB - CME)						
Spread Credit Rate	Increase	+1:-1	65%	65%	75%	75%
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	70%	70%	78%	78%
EIA FLAT TAX ON-HIGHWAY DIESEL SWAP FUTURES (NY-A5) vs. CONWAY PROPANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-8K)						
Spread Credit Rate	Increase	+1:-1	35%	35%	40%	40%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
EIA FLAT TAX ON-HIGHWAY DIESEL SWAP FUTURES (NY-A5) vs. MONT BELVIEU NATURAL GASOLINE 5 DECIMALS (OPIS) SWAP FUTURES (NY-7Q)						
Spread Credit Rate	Increase	+1:-1	55%	55%	64%	64%
EIA FLAT TAX ONHWAY DIESEL SWP (NY-A5) vs NY HARBOR RESIDUAL FUEL 1.0% S(NY-MM)						
Spread Credit Rate	Increase	+1:-1	60%	60%	69%	69%
EIA FLAT TAX ONHWAY DIESEL SWP (NY-A5) vs SINGAPORE 380CST FUEL OIL SWAP (NY-SE)						
Spread Credit Rate	Increase	+19:-3	60%	60%	68%	68%
EIA FLAT TAX ONHWAY DIESEL SWP (NY-A5) vs SINGAPORE FUEL 180CST CALSWAP (NY-UA)						
Spread Credit Rate	Increase	+15:-2	60%	60%	63%	63%
EIA FLAT TAX U.S. RETAIL GASOLINE SWAP FUTURES (NY-JE - CME) vs GULF COAST JET FUEL (PLATTS) CALENDAR SWAP FUTURES (NY-GE - CME)						
Spread Credit Rate	New	+1:-1			36%	36%
EURO DIESEL 10 CAL SWAP (NY-GT) vs SINGAPORE 380CST FUEL OIL SWAP (NY-SE)						
Spread Credit Rate	Increase	+1:-1	40%	40%	50%	50%
EURO DIESEL 10 CAL SWAP (NY-GT) vs SINGAPORE FUEL 180CST CALSWAP (NY-UA)						
Spread Credit Rate	Increase	+1:-1	40%	40%	45%	45%
EUROPEAN 1% FUEL OIL (PLATTS) BARGES FOB RDAM CALENDAR SWAP FUTURES (NY-UH - CME) vs GULF COAST NO. 6 FUEL OIL 3.0% (PLATTS) SWAP FUTURES (NY-MF - CME)						
Spread Credit Rate	Decrease	+2:-15	90%	90%	88%	88%
EUROPEAN 1% FUEL OIL (PLATTS) BARGES FOB RDAM CALENDAR SWAP FUTURES (NY-UH - CME) vs JAPAN C&F NAPHTHA (PLATTS) SWAP FUTURES (NY-JA - CME)						
Spread Credit Rate	Increase	+1:-1	50%	50%	60%	60%
EUROPEAN 1% FUEL OIL (PLATTS) BARGES FOB RDAM CALENDAR SWAP FUTURES (NY-UH - CME) vs SINGAPORE FUEL OIL 380 CST (PLATTS) SWAP FUTURES (NY-SE - CME)						
Spread Credit Rate	Increase	+1:-1	75%	75%	80%	80%
EUROPEAN 1% FUEL OIL (PLATTS) CARGOES FOB NWE CALENDAR SWAP FUTURES (NY-UF - CME) vs CONWAY NORMAL BUTANE (OPIS) SWAP FUTURES (NY-8M - CME)						
Spread Credit Rate	Increase	+2:-15	25%	25%	39%	39%
EUROPEAN 1% FUEL OIL (PLATTS) CARGOES FOB NWE CALENDAR SWAP FUTURES (NY-UF - CME) vs GULF COAST NO. 6 FUEL OIL 3.0% (PLATTS) SWAP FUTURES (NY-MF - CME)						
Spread Credit Rate	Increase	+2:-15	85%	85%	87%	87%
EUROPEAN 1% FUEL OIL (PLATTS) CARGOES FOB NWE CALENDAR SWAP FUTURES (NY-UF - CME) vs GULF COAST ULSD (PLATTS) SWAP FUTURES (NY-LY - CME)						
Spread Credit Rate	Increase	+2:-15	60%	60%	64%	64%
EUROPEAN 1% FUEL OIL (PLATTS) CARGOES FOB NWE CALENDAR SWAP FUTURES (NY-UF - CME) vs JET AVIATION FUEL (PLATTS) CARGOES FOB MED SWAP FUTURES (NY-1T - CME)						
Spread Credit Rate	Increase	-1:+1	50%	50%	55%	55%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
EUROPEAN 1% FUEL OIL (PLATTS) CARGOES FOB NWE CALENDAR SWAP FUTURES (NY-UF - CME) vs MONT BELVIEU NATURAL GASOLINE 5 DECIMALS (OPIS) SWAP FUTURES (NY-7Q - CME)						
Spread Credit Rate	Decrease	+2:-15	68%	68%	61%	61%
EUROPEAN 1% FUEL OIL (PLATTS) CARGOES FOB NWE CALENDAR SWAP FUTURES (NY-UF - CME) vs SINGAPORE GASOIL (PLATTS) SWAP FUTURES (NY-SG - CME)						
Spread Credit Rate	Increase	+2:-15	50%	50%	62%	62%
EUROPEAN 1% FUEL OIL (PLATTS) CARGOES FOB NWE CALENDAR SWAP FUTURES (NY-UF - CME) vs SINGAPORE JET KEROSENE (PLATTS) SWAP FUTURES (NY-KS - CME)						
Spread Credit Rate	Increase	+2:-15	50%	50%	57%	57%
EUROPEAN 3.5% FUEL OIL (PLATTS) BARGES FOB RDAM CALENDAR SWAP FUTURES (NY-UV - CME) vs DUBAI CRUDE OIL (PLATTS) CALENDAR SWAP FUTURES (NY-DC - CME)						
Spread Credit Rate	Increase	+3:-19	78%	78%	80%	80%
EUROPEAN 3.5% FUEL OIL (PLATTS) BARGES FOB RDAM CALENDAR SWAP FUTURES (NY-UV - CME) vs EUROPEAN 1% FUEL OIL (PLATTS) CARGOES FOB NWE CALENDAR SWAP FUTURES (NY-UF - CME)						
Spread Credit Rate	Increase	+1:-1	90%	90%	92%	92%
EUROPEAN 3.5% FUEL OIL (PLATTS) BARGES FOB RDAM CALENDAR SWAP FUTURES (NY-UV - CME) vs EUROPEAN NAPHTHA (PLATTS) CALENDAR SWAP FUTURES (NY-UN - CME)						
Spread Credit Rate	Decrease	+1:-1	70%	70%	68%	68%
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	86%	86%	89%	89%
EUROPEAN 3.5% FUEL OIL (PLATTS) CARGOES FOB MED CALENDAR SWAP FUTURES (NY-UI - CME) vs SINGAPORE FUEL OIL 380 CST (PLATTS) SWAP FUTURES (NY-SE - CME)						
Spread Credit Rate	Increase	+1:-1	94%	94%	95%	95%
EUROPEAN 3.5% FUEL OIL MED CALENDAR SWAP (MEDITERR (NYM-UI - CME) vs FUEL OIL 3.5% CIF MED SWAP (NYM-7D - CME)						
Spread Credit Rate	Increase	+1:-1	94%	94%	95%	95%
EUROPEAN 3.5% FUEL OIL MED CALENDAR SWAP (MEDITERR (NYM-UI - CME) vs LIGHT, SWEET CRUDE OIL FUTURES (NYM-CL, CS, WS)						
Spread Credit Rate	Increase	+3:-19	75%	75%	76%	76%
EUROPEAN 3.5% FUEL OIL ROTTERDAM CALENDAR SWAP (NYM-UV - CME) vs EUROPEAN 3.5% FUEL OIL MED CALENDAR SWAP (MEDITERR (NYM-UI - CME)						
Spread Credit Rate	Increase	+1:-1	95%	95%	96%	96%
EUROPEAN 3.5% FUEL OIL ROTTERDAM CALENDAR SWAP (NYM-UV - CME) vs EUROPEAN SINGAPORE FUEL OIL 180CST CALENDAR SWAP (NYM-UA - CME)						
Spread Credit Rate	Increase	+1:-1	90%	90%	92%	92%
EUROPEAN 3.5% FUEL OIL ROTTERDAM CALENDAR SWAP (NYM-UV - CME) vs FUEL OIL 3.5% CIF MED SWAP (NYM-7D - CME)						
Spread Credit Rate	Increase	+1:-1	95%	95%	96%	96%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
EUROPEAN GASOIL 10 PPM (PLATTS) BARGES FOB RDAM SWAP FUT (NY-GT) vs. JAPAN C&F NAPHTHA (PLATTS) SWAP FUT (NY-JA)						
Spread Credit Rate	Increase	+1:-1	50%	50%	55%	55%
EUROPEAN GASOIL 10 PPM (PLATTS) BARGES FOB RDAM SWAP FUTURES (NY-GT - CME) vs ARGUS PROPANE (SAUDI ARAMCO) SWAP FUTURES (NY-9N - CME)						
Spread Credit Rate	Decrease	+1:-1	55%	55%	44%	44%
EUROPEAN GASOIL 10 PPM (PLATTS) BARGES FOB RDAM SWAP FUTURES (NY-GT - CME) vs DATED BRENT (PLATTS) CALENDAR SWAP FUTURES (NY-UB - CME)						
Spread Credit Rate	Increase	+2:-15	50%	50%	55%	55%
EUROPEAN GASOIL 10 PPM (PLATTS) BARGES FOB RDAM SWAP FUTURES (NY-GT - CME) vs DUBAI CRUDE OIL (PLATTS) CALENDAR SWAP FUTURES (NY-DC - CME)						
Spread Credit Rate	Increase	+2:-15	50%	50%	55%	55%
EUROPEAN GASOIL 10 PPM (PLATTS) BARGES FOB RDAM SWAP FUTURES (NY-GT - CME) vs EIA FLAT TAX ON-HIGHWAY DIESEL SWAP FUTURES (NY-A5 - CME)						
Spread Credit Rate	Increase	+2:-15	50%	50%	60%	60%
EUROPEAN GASOIL 10 PPM (PLATTS) BARGES FOB RDAM SWAP FUTURES (NY-GT - CME) vs EUROPEAN 1% FUEL OIL (PLATTS) BARGES FOB RDAM CALENDAR SWAP FUTURES (NY-UH - CME)						
Spread Credit Rate	Increase	+1:-1	40%	40%	45%	45%
EUROPEAN GASOIL 10 PPM (PLATTS) BARGES FOB RDAM SWAP FUTURES (NY-GT - CME) vs EUROPEAN 1% FUEL OIL (PLATTS) CARGOES FOB NWE CALENDAR SWAP FUTURES (NY-UF - CME)						
Spread Credit Rate	Increase	+1:-1	40%	40%	45%	45%
EUROPEAN GASOIL 10 PPM (PLATTS) BARGES FOB RDAM SWAP FUTURES (NY-GT - CME) vs EUROPEAN 3.5% FUEL OIL (PLATTS) BARGES FOB RDAM CALENDAR SWAP FUTURES (NY-UV - CME)						
Spread Credit Rate	Increase	+1:-1	45%	45%	50%	50%
EUROPEAN GASOIL 10 PPM (PLATTS) BARGES FOB RDAM SWAP FUTURES (NY-GT - CME) vs EUROPEAN NAPHTHA (PLATTS) CALENDAR SWAP FUTURES (NY-UN - CME)						
Spread Credit Rate	Increase	+1:-1	45%	45%	50%	50%
EUROPEAN GASOIL 10 PPM (PLATTS) BARGES FOB RDAM SWAP FUTURES (NY-GT - CME) vs GASOLINE EURO-BOB OXY (ARGUS) NWE BARGES SWAP FUTURES (NY-7H - CME)						
Spread Credit Rate	Increase	+1:-1	40%	40%	48%	48%
EUROPEAN GASOIL 10 PPM (PLATTS) BARGES FOB RDAM SWAP FUTURES (NY-GT - CME) vs GULF COAST NO. 6 FUEL OIL 3.0% (PLATTS) SWAP FUTURES (NY-MF - CME)						
Spread Credit Rate	Increase	+2:-15	50%	50%	60%	60%
EUROPEAN GASOIL 10 PPM (PLATTS) BARGES FOB RDAM SWAP FUTURES (NY-GT - CME) vs LIGHT SWEET CRUDE OIL FUTURES (NY-CL - CME)						
Spread Credit Rate	Increase	+2:-15	55%	55%	65%	65%
EUROPEAN GASOIL 10 PPM (PLATTS) BARGES FOB RDAM SWAP FUTURES (NY-GT - CME) vs MONT BELVIEU NORMAL BUTANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-D0 - CME)						
Spread Credit Rate	Increase	+2:-15	30%	30%	35%	35%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
EUROPEAN GASOIL 10 PPM (PLATTS) BARGES FOB RDAM SWAP FUTURES (NY-GT - CME) vs NY 3.0% FUEL OIL (PLATTS) SWAP FUTURES (NY-H1 - CME)						
Spread Credit Rate	Increase	+2:-15	50%	50%	55%	55%
EUROPEAN GASOIL 10 PPM (PLATTS) BARGES FOB RDAM SWAP FUTURES (NY-GT - CME) vs OMAN CRUDE OIL (NY-OQ - CME)						
Spread Credit Rate	Increase	+2:-15	55%	55%	60%	60%
EUROPEAN GASOIL 10 PPM (PLATTS) BARGES FOB RDAM SWAP FUTURES (NY-GT - CME) vs SINGAPORE GASOIL (PLATTS) SWAP FUTURES (NY-SG - CME)						
Spread Credit Rate	Increase	+2:-15	55%	55%	65%	65%
EUROPEAN GASOIL 10 PPM (PLATTS) BARGES FOB RDAM SWAP FUTURES (NY-GT - CME) vs SINGAPORE JET KEROSENE (PLATTS) SWAP FUTURES (NY-KS - CME)						
Spread Credit Rate	Increase	+2:-15	50%	50%	65%	65%
EUROPEAN GASOIL BULLET SWAP FUTURES (NY-BG - CME) vs LIGHT SWEET CRUDE OIL FUTURES (NY-CL - CME)						
Spread Credit Rate	Increase	+2:-15	62%	62%	66%	66%
EUROPEAN JET KERO NWE CALENDAR SWAP (NORTHWEST EUR (NYM-UJ - CME) vs LIGHT, SWEET CRUDE OIL FUTURES (NYM-CL, CS, WS)						
Spread Credit Rate	Increase	+1:-9	50%	50%	53%	53%
EUROPEAN JET KEROSENE (PLATTS) CARGOES CIF NWE CALENDAR SWAP FUTURES (NY-UJ - CME) vs DUBAI CRUDE OIL (PLATTS) CALENDAR SWAP FUTURES (NY-DC - CME)						
Spread Credit Rate	Increase	+1:-9	50%	50%	57%	57%
EUROPEAN JET KEROSENE (PLATTS) CARGOES CIF NWE CALENDAR SWAP FUTURES (NY-UJ - CME) vs GASOLINE EURO-BOB OXY (ARGUS) NWE BARGES SWAP FUTURES (NY-7H - CME)						
Spread Credit Rate	Increase	+1:-1	50%	50%	55%	55%
EUROPEAN JET KEROSENE (PLATTS) CARGOES CIF NWE CALENDAR SWAP FUTURES (NY-UJ - CME) vs JAPAN C&F NAPHTHA (PLATTS) SWAP FUTURES (NY-JA - CME)						
Spread Credit Rate	Increase	+1:-1	45%	45%	49%	49%
EUROPEAN JET KEROSENE (PLATTS) CARGOES CIF NWE CALENDAR SWAP FUTURES (NY-UJ - CME) vs SINGAPORE FUEL OIL 380 CST (PLATTS) SWAP FUTURES (NY-SE - CME)						
Spread Credit Rate	Increase	+1:-1	45%	45%	52%	52%
EUROPEAN JET KEROSENE (PLATTS) CARGOES CIF NWE CALENDAR SWAP FUTURES (NY-UJ - CME) vs SINGAPORE JET KEROSENE (PLATTS) SWAP FUTURES (NY-KS - CME)						
Spread Credit Rate	Increase	+2:-15	80%	80%	82%	82%
EUROPEAN NAPHTHA (PLATTS) CALENDAR SWAP FUTURES (NY-UN - CME) vs CONWAY NATURAL GASOLINE (OPIS) SWAP FUTURES (NY-8L - CME)						
Spread Credit Rate	New	+1:-9			40%	40%
Spread Credit Rate	Increase	+1:-9	35%	35%	52%	52%
EUROPEAN NAPHTHA (PLATTS) CALENDAR SWAP FUTURES (NY-UN - CME) vs GULF COAST ULSD (PLATTS) SWAP FUTURES (NY-LY - CME)						
Spread Credit Rate	Increase	+1:-9	70%	70%	78%	78%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
EUROPEAN NAPHTHA (PLATTS) CALENDAR SWAP FUTURES (NY-UN - CME) vs SINGAPORE JET KEROSENE (PLATTS) SWAP FUTURES (NY-KS - CME)						
Spread Credit Rate	Increase	+1:-9	60%	60%	63%	63%
EUROPEAN NAPHTHA (PLATTS) CALENDAR SWAP FUTURES (NY-UN) vs. MONT BELVIEU NATURAL GASOLINE 5 DECIMALS (OPIS) SWAP FUTURES (NY-7Q)						
Spread Credit Rate	Decrease	+1:-9	73%	73%	67%	67%
EUROPEAN NAPHTHA (PLATTS) CALENDAR SWAP FUTURES (NY-UN) vs. MONT BELVIEU NORMAL BUTANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-D0)						
Spread Credit Rate	Increase	+1:-9	49%	49%	58%	58%
EUROPEAN PROPANE CIF ARA (ARGUS) SWAP FUTURES (NY-PS - CME) vs EUROPEAN 1% FUEL OIL (PLATTS) BARGES FOB RDAM CALENDAR SWAP FUTURES (NY-UH - CME)						
Spread Credit Rate	Increase	+1:-1	30%	30%	40%	40%
EUROPEAN PROPANE CIF ARA (ARGUS) SWAP FUTURES (NY-PS - CME) vs EUROPEAN 1% FUEL OIL (PLATTS) CARGOES FOB NWE CALENDAR SWAP FUTURES (NY-UF - CME)						
Spread Credit Rate	Increase	+1:-1	40%	40%	42%	42%
EUROPEAN PROPANE CIF ARA (ARGUS) SWAP FUTURES (NY-PS - CME) vs GASOLINE EURO-BOB OXY (ARGUS) NWE BARGES SWAP FUTURES (NY-7H - CME)						
Spread Credit Rate	Increase	+1:-1	40%	40%	44%	44%
EUROPEAN PROPANE CIF ARA (ARGUS) SWAP FUTURES (NY-PS - CME) vs GULF COAST JET FUEL (PLATTS) CALENDAR SWAP FUTURES (NY-GE - CME)						
Spread Credit Rate	Increase	+1:-12	45%	45%	50%	50%
EUROPEAN PROPANE CIF ARA (ARGUS) SWAP FUTURES (NY-PS - CME) vs JAPAN C&F NAPHTHA (PLATTS) SWAP FUTURES (NY-JA - CME)						
Spread Credit Rate	Increase	+1:-1	55%	55%	59%	59%
EUROPEAN PROPANE CIF ARA (ARGUS) SWAP FUTURES (NY-PS - CME) vs NY 3.0% FUEL OIL (PLATTS) SWAP FUTURES (NY-H1 - CME)						
Spread Credit Rate	Increase	+1:-12	30%	30%	45%	45%
EUROPEAN PROPANE CIF ARA (ARGUS) SWAP FUTURES (NY-PS - CME) vs SINGAPORE GASOIL (PLATTS) SWAP FUTURES (NY-SG - CME)						
Spread Credit Rate	Increase	+1:-12	35%	35%	46%	46%
EUROPEAN PROPANE CIF ARA (ARGUS) SWAP FUTURES (NY-PS) vs. GULF COAST ULSD (PLATTS) SWAP FUTURES (NY-LY)						
Spread Credit Rate	Increase	+1:-12	40%	40%	48%	48%
EUROPEAN PROPANE CIF ARA (ARGUS) SWAP FUTURES (NY-PS) vs. SINGAPORE FUEL OIL 380 CST (PLATTS) SWAP FUTURES (NY-SE)						
Spread Credit Rate	Increase	+1:-1	40%	40%	43%	43%
EUROPEAN PROPANE CIF ARA (ARGUS) SWAP FUTURES (NY-PS) vs. SINGAPORE MOGAS 92 UNLEADED (PLATTS) SWAP FUTURES (NY-1N)						
Spread Credit Rate	Increase	+1:-12	40%	40%	49%	49%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
GASOIL 0.1 (PLATTS) BARGES FOB RDAM SWAP FUTURES (NY-VL - CME) vs GULF COAST NO. 6 FUEL OIL 3.0% (PLATTS) SWAP FUTURES (NY-MF - CME)						
Spread Credit Rate	Decrease	+2:-15	60%	60%	55%	55%
GASOIL 0.1 ROTTERDAM BARGES SW (NY-VL) vs SINGAPORE 380CST FUEL OIL SWAP (NY-SE)						
Spread Credit Rate	Increase	+1:-1	40%	40%	42%	42%
GASOIL 10PPM (PLATTS) CARGOES CIF NWE SWAP FUTURES (NY-TY - CME) vs GULF COAST NO. 6 FUEL OIL 3.0% (PLATTS) SWAP FUTURES (NY-MF - CME)						
Spread Credit Rate	Decrease	+2:-15	60%	60%	55%	55%
GASOLINE EURO-BOB OXY (ARGUS) NWE BARGES SWAP FUTURES (NY-7H - CME) vs DATED BRENT (PLATTS) CALENDAR SWAP FUTURES (NY-UB - CME)						
Spread Credit Rate	New	+3:-25			55%	55%
Spread Credit Rate	Increase	+3:-25	50%	50%	62%	62%
GASOLINE EURO-BOB OXY (ARGUS) NWE BARGES SWAP FUTURES (NY-7H - CME) vs DUBAI CRUDE OIL (PLATTS) CALENDAR SWAP FUTURES (NY-DC - CME)						
Spread Credit Rate	Increase	+3:-25	60%	60%	65%	65%
GASOLINE EURO-BOB OXY (ARGUS) NWE BARGES SWAP FUTURES (NY-7H - CME) vs EUROPEAN 1% FUEL OIL CARGOES FOB MED (PLATTS) SWAP FUTURES (NY-EFM - CME)						
Spread Credit Rate	Decrease	+1:-1	70%	70%	63%	63%
GASOLINE EURO-BOB OXY (ARGUS) NWE BARGES SWAP FUTURES (NY-7H - CME) vs EUROPEAN 3.5% FUEL OIL (PLATTS) CARGOES FOB MED CALENDAR SWAP FUTURES (NY-UI - CME)						
Spread Credit Rate	Increase	+1:-1	55%	55%	57%	57%
GASOLINE EURO-BOB OXY (ARGUS) NWE BARGES SWAP FUTURES (NY-7H - CME) vs GULF COAST ULSD (PLATTS) SWAP FUTURES (NY-LY - CME)						
Spread Credit Rate	Increase	+3:-25	70%	70%	76%	76%
GASOLINE EURO-BOB OXY (ARGUS) NWE BARGES SWAP FUTURES (NY-7H - CME) vs OMAN CRUDE OIL (NY-OQ - CME)						
Spread Credit Rate	Increase	+2:-15	65%	65%	70%	70%
GASOLINE EURO-BOB OXY (ARGUS) NWE BARGES SWAP FUTURES (NY-7H - CME) vs PREMIUM UNLEADED GASOLINE 10 PPM (PLATTS) CARGOES CIF NWE SWAP FUTURES (NY-4G - CME)						
Spread Credit Rate	Increase	+1:-1	60%	60%	65%	65%
GASOLINE EURO-BOB OXY (ARGUS) NWE BARGES SWAP FUTURES (NY-7H - CME) vs SINGAPORE FUEL OIL 180 CST (PLATTS) CALENDAR SWAP FUTURES (NY-UA - CME)						
Spread Credit Rate	Increase	+1:-1	55%	55%	58%	58%
GASOLINE EURO-BOB OXY (ARGUS) NWE BARGES SWAP FUTURES (NY-7H - CME) vs SINGAPORE JET KEROSENE (PLATTS) SWAP FUTURES (NY-KS - CME)						
Spread Credit Rate	Increase	+3:-25	55%	55%	57%	57%
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	+3:-25	32%	32%	34%	34%

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) vs. MONT BELVIEU NORMAL BUTANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-D0)						
Spread Credit Rate	Increase	+3:-25	40%	40%	43%	43%
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	Increase	+1:-1	58%	58%	61%	61%
GULF COAST #6 FUEL 3.0% SWAP (NYM-MF - CME) vs NEW YORK FUEL OIL 0.3% HP SWAP (NYM-8N - CME)						
Spread Credit Rate	Increase	+1:-1	50%	50%	60%	60%
GULF COAST JET FUEL (PLATTS) CALENDAR SWAP FUT (NY-GE) vs. EIA FLAT TAX ON-HIGHWAY DIESEL SWAP FUT (NY-A5)						
Spread Credit Rate	Increase	+1:-1	65%	65%	70%	70%
GULF COAST JET FUEL (PLATTS) CALENDAR SWAP FUTURES (NY-GE - CME) vs COAL (API 2) CIF ARA (ARGUS/MCCLOSKEY) SWAP FUTURES (NY-MTF - CME)						
Spread Credit Rate	Decrease	+1:-1	30%	30%	21%	21%
GULF COAST JET FUEL (PLATTS) CALENDAR SWAP FUTURES (NY-GE - CME) vs CONWAY PROPANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-8K - CME)						
Spread Credit Rate	Increase	+1:-1	30%	30%	37%	37%
GULF COAST JET FUEL (PLATTS) CALENDAR SWAP FUTURES (NY-GE - CME) vs GASOLINE EURO-BOB OXY (ARGUS) NWE BARGES SWAP FUTURES (NY-7H - CME)						
Spread Credit Rate	Increase	+25:-3	65%	65%	69%	69%
GULF COAST JET FUEL (PLATTS) CALENDAR SWAP FUTURES (NY-GE - CME) vs MONT BELVIEU NORMAL BUTANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-D0 - CME)						
Spread Credit Rate	Increase	+1:-1	35%	35%	40%	40%
GULF COAST JET FUEL (PLATTS) CALENDAR SWAP FUTURES (NY-GE - CME) vs MONT BELVIEU NORMAL BUTANE LDH (OPIS) SWAP FUTURES (NY-MNB - CME)						
Spread Credit Rate	Increase	+1:-1	40%	40%	48%	48%
GULF COAST JET FUEL (PLATTS) CALENDAR SWAP FUTURES (NY-GE - CME) vs SINGAPORE GASOIL (PLATTS) SWAP FUTURES (NY-SG - CME)						
Spread Credit Rate	Increase	+1:-1	54%	54%	66%	66%
GULF COAST NO. 6 FUEL OIL 3.0% (PLATTS) SWAP FUTURES (NY-MF - CME) vs GULF COAST JET FUEL (PLATTS) CALENDAR SWAP FUTURES (NY-GE - CME)						
Spread Credit Rate	Decrease	+1:-1	65%	65%	63%	63%
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	Decrease	+1:-2	25%	25%	0%	0%
GULF COAST NO. 6 FUEL OIL 3.0% (PLATTS) SWAP FUTURES (NY-MF - CME) vs NY 2.2% FUEL OIL (PLATTS) SWAP FUTURES (NY-Y3 - 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						
GULF COAST NO. 6 FUEL OIL 3.0% (PLATTS) SWAP FUTURES (NY-MF - CME) vs SINGAPORE NAPHTHA (PLATTS) SWAP FUTURES (NY-SP - CME)						
Spread Credit Rate	Increase	+1:-1	75%	75%	77%	77%
GULF COAST ULSD (PLATTS) SWAP FUTURES (NY-LY - CME) vs BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME)						
Spread Credit Rate	Increase	+1:-1	70%	70%	75%	75%
GULF COAST ULSD (PLATTS) SWAP FUTURES (NY-LY - CME) vs DATED BRENT (PLATTS) CALENDAR SWAP FUTURES (NY-UB - CME)						
Spread Credit Rate	Increase	+1:-1	70%	70%	74%	74%
GULF COAST ULSD (PLATTS) SWAP FUTURES (NY-LY - CME) vs DUBAI CRUDE OIL (PLATTS) CALENDAR SWAP FUTURES (NY-DC - CME)						
Spread Credit Rate	Increase	+1:-1	70%	70%	77%	77%
GULF COAST ULSD (PLATTS) SWAP FUTURES (NY-LY - CME) vs EUROPEAN 3.5% FUEL OIL (PLATTS) BARGES FOB RDAM CALENDAR SWAP FUTURES (NY-UV - CME)						
Spread Credit Rate	Increase	+19:-3	65%	65%	69%	69%
GULF COAST ULSD (PLATTS) SWAP FUTURES (NY-LY - CME) vs RBOB GASOLINE FUTURES (NY-RB - CME)						
Spread Credit Rate	Increase	+1:-1	70%	70%	79%	79%
GULF COAST ULSD (PLATTS) SWAP FUTURES (NY-LY - CME) vs SINGAPORE JET KEROSENE (PLATTS) SWAP FUTURES (NY-KS - CME)						
Spread Credit Rate	Increase	+1:-1	60%	60%	65%	65%
GULF COAST ULSD (PLATTS) SWAP FUTURES (NY-LY - CME) vs SINGAPORE MOGAS 92 UNLEADED (PLATTS) SWAP FUTURES (NY-1N - CME)						
Spread Credit Rate	Increase	+1:-1	69%	69%	75%	75%
GULF COAST ULSD CALENDAR SWAP (NY-LY) vs NY 3.0% FUEL OIL (PLATTS) SWP (NY-H1)						
Spread Credit Rate	Increase	+1:-1	60%	60%	63%	63%
IN DELIVERY MONTH EUROPEAN UNION ALLOWANCE (EUA) FUTURES (NY-6T - CME) vs RBOB GASOLINE FUTURES (NY-RB - CME)						
Spread Credit Rate	Decrease	+4:-1	30%	30%	0%	0%
JAPAN C&F NAPHTHA (PLATTS) SWAP FUT (NY-JA) vs. EIA FLAT TAX ON-HIGHWAY DIESEL SWAP FUT (NY-A5)						
Spread Credit Rate	Increase	+1:-9	65%	65%	75%	75%
JAPAN C&F NAPHTHA (PLATTS) SWAP FUTURES (NY-JA - CME) vs CONWAY NATURAL GASOLINE (OPIS) SWAP FUTURES (NY-8L - CME)						
Spread Credit Rate	Increase	+2:-15	50%	50%	52%	52%
JAPAN C&F NAPHTHA (PLATTS) SWAP FUTURES (NY-JA - CME) vs CONWAY PROPANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-8K - CME)						
Spread Credit Rate	Increase	+2:-15	30%	30%	35%	35%
Spread Credit Rate	Increase	+2:-15	41%	41%	51%	51%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
JAPAN C&F NAPHTHA (PLATTS) SWAP FUTURES (NY-JA - CME) vs GULF COAST NO. 6 FUEL OIL 3.0% (PLATTS) SWAP FUTURES (NY-MF - CME)						
Spread Credit Rate	Increase	+1:-9	60%	60%	65%	65%
Spread Credit Rate	Increase	+1:-9	70%	70%	78%	78%
JAPAN C&F NAPHTHA (PLATTS) SWAP FUTURES (NY-JA - CME) vs NEW YORK HARBOR NO. 2 HEATING OIL FUTURES (NY-HO - CME)						
Spread Credit Rate	Increase	+1:-1	25%	25%	27%	27%
JAPAN C&F NAPHTHA (PLATTS) SWAP FUTURES (NY-JA - CME) vs NEW YORK HARBOR RESIDUAL FUEL 1.0% (PLATTS) SWAP FUTURES (NY-MM - CME)						
Spread Credit Rate	Increase	+1:-9	70%	70%	76%	76%
JAPAN C&F NAPHTHA (PLATTS) SWAP FUTURES (NY-JA - CME) vs OMAN CRUDE OIL (NY-OQ - CME)						
Spread Credit Rate	Increase	+2:-15	75%	75%	81%	81%
JAPAN C&F NAPHTHA (PLATTS) SWAP FUTURES (NY-JA - CME) vs SINGAPORE FUEL OIL 380 CST (PLATTS) SWAP FUTURES (NY-SE - CME)						
Spread Credit Rate	Increase	+1:-1	65%	65%	68%	68%
JAPAN C&F NAPHTHA (PLATTS) SWAP FUTURES (NY-JA - CME) vs SINGAPORE GASOIL (PLATTS) SWAP FUTURES (NY-SG - CME)						
Spread Credit Rate	Increase	+2:-15	50%	50%	63%	63%
JAPAN C&F NAPHTHA (PLATTS) SWAP FUTURES (NY-JA - CME) vs SINGAPORE MOGAS 92 UNLEADED (PLATTS) SWAP FUTURES (NY-1N - CME)						
Spread Credit Rate	Increase	+2:-15	70%	70%	77%	77%
JAPAN C&F NAPHTHA (PLATTS) SWAP FUTURES (NY-JA - CME) vs SINGAPORE MOGAS 97 UNLEADED (PLATTS) SWAP FUTURES (NY-X0 - CME)						
Spread Credit Rate	Increase	+1:-9	65%	65%	70%	70%
JAPAN C&F NAPHTHA (PLATTS) SWAP FUTURES (NY-JA) vs. GULF COAST ULSD (PLATTS) SWAP FUTURES (NY-LY)						
Spread Credit Rate	Increase	+2:-15	65%	65%	74%	74%
JAPAN C&F NAPHTHA (PLATTS) SWAP FUTURES (NY-JA) vs. MONT BELVIEU LDH PROPANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-B0)						
Spread Credit Rate	Increase	+2:-15	45%	45%	55%	55%
Spread Credit Rate	Increase	+2:-15	35%	35%	40%	40%
JAPAN C&F NAPHTHA (PLATTS) SWAP FUTURES (NY-JA) vs. MONT BELVIEU NORMAL BUTANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-D0)						
Spread Credit Rate	Increase	+2:-15	45%	45%	54%	54%
JET AVIATION FUEL (PLATTS) CARGOES FOB MED SWAP FUTURES (NY-1T - CME) vs 1% FUEL OIL (PLATTS) CARGOES CIF MED SWAP FUTURES (NY-1W - CME)						
Spread Credit Rate	Increase	+1:-1	30%	30%	35%	35%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
JET AVIATION FUEL (PLATTS) CARGOES FOB MED SWAP FUTURES (NY-1T - CME) vs 3.5% FUEL OIL (PLATTS) CIF MED SWAP FUTURES (NY-7D - CME)						
Spread Credit Rate	New	+1:-1			60%	60%
Spread Credit Rate	Increase	+1:-1	50%	50%	55%	55%
JET AVIATION FUEL (PLATTS) CARGOES FOB MED SWAP FUTURES (NY-1T - CME) vs EUROPEAN 1% FUEL OIL (PLATTS) BARGES FOB RDAM CALENDAR SWAP FUTURES (NY-UH - CME)						
Spread Credit Rate	Increase	+1:+1	20%	20%	50%	50%
JET AVIATION FUEL (PLATTS) CARGOES FOB MED SWAP FUTURES (NY-1T - CME) vs EUROPEAN 1% FUEL OIL (PLATTS) CARGOES FOB NWE CALENDAR SWAP FUTURES (NY-UF - CME)						
Spread Credit Rate	Increase	+1:-1	50%	50%	55%	55%
JET AVIATION FUEL (PLATTS) CARGOES FOB MED SWAP FUTURES (NY-1T - CME) vs EUROPEAN 1% FUEL OIL CARGOES FOB MED (PLATTS) SWAP FUTURES (NY-EFM - CME)						
Spread Credit Rate	Increase	+1:-1	50%	50%	55%	55%
JET AVIATION FUEL (PLATTS) CARGOES FOB MED SWAP FUTURES (NY-1T - CME) vs EUROPEAN 3.5% FUEL OIL (PLATTS) BARGES FOB RDAM CALENDAR SWAP FUTURES (NY-UV - CME)						
Spread Credit Rate	Increase	+1:-1	50%	50%	55%	55%
JET AVIATION FUEL (PLATTS) CARGOES FOB MED SWAP FUTURES (NY-1T - CME) vs EUROPEAN 3.5% FUEL OIL (PLATTS) CARGOES FOB MED CALENDAR SWAP FUTURES (NY-UI - CME)						
Spread Credit Rate	Increase	+1:-1	50%	50%	60%	60%
JET AVIATION FUEL (PLATTS) CARGOES FOB MED SWAP FUTURES (NY-1T - CME) vs EUROPEAN JET KEROSENE (PLATTS) CARGOES CIF NWE CALENDAR SWAP FUTURES (NY-UJ - CME)						
Spread Credit Rate	Increase	+1:-1	90%	90%	93%	93%
JET AVIATION FUEL (PLATTS) CARGOES FOB MED SWAP FUTURES (NY-1T - CME) vs EUROPEAN NAPHTHA (PLATTS) CALENDAR SWAP FUTURES (NY-UN - CME)						
Spread Credit Rate	Increase	+1:-1	50%	50%	58%	58%
JET AVIATION FUEL (PLATTS) CARGOES FOB MED SWAP FUTURES (NY-1T - CME) vs PREMIUM UNLEADED GASOLINE 10 PPM (PLATTS) BARGES FOB RDAM SWAP FUTURES (NY-7L - CME)						
Spread Credit Rate	Increase	+1:-1	35%	35%	55%	55%
JET AVIATION FUEL (PLATTS) CARGOES FOB MED SWAP FUTURES (NY-1T - CME) vs PREMIUM UNLEADED GASOLINE 10 PPM (PLATTS) FOB MED SWAP FUTURES (NY-3G - CME)						
Spread Credit Rate	Increase	+1:-1	50%	50%	55%	55%
LA CARB DIESEL (OPIS) (NY-LX) vs SINGAPORE 380CST FUEL OIL SWAP (NY-SE)						
Spread Credit Rate	Increase	+19:-3	50%	50%	58%	58%
LIGHT SWEET CRUDE OIL FUTURES (NY-CL - CME) vs EUROPEAN 1% FUEL OIL (PLATTS) CARGOES FOB NWE CALENDAR SWAP FUTURES (NY-UF - CME)						
Spread Credit Rate	Increase	+19:-3	75%	75%	77%	77%
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	73%	73%	75%	75%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
LIGHT SWEET CRUDE OIL FUTURES (NY-CL, CS, WS) vs EIA FLAT TAX ON-HIGHWAY DIESEL SWAP FUTURES (NY-A5 - CME)						
Spread Credit Rate	Increase	+1:-1	70%	70%	74%	74%
LIGHT SWEET CRUDE OIL FUTURES (NY-CL, CS, WS) vs GULF COAST HEATING OIL (ARGUS) SWAP FUTURES (NY-4U - CME)						
Spread Credit Rate	Increase	+1:-1	50%	50%	63%	63%
LIGHT SWEET CRUDE OIL FUTURES (NY-CL, CS, WS) vs GULF COAST ULSD (PLATTS) SWAP FUTURES (NY-LY - CME)						
Spread Credit Rate	Increase	+1:-1	55%	55%	65%	65%
LIGHT SWEET CRUDE OIL FUTURES (NY-CL, CS, WS) vs JAPAN C&F NAPHTHA (Platts) SWAP FUTURES (NY-JA)						
Spread Credit Rate	Increase	+9:-1	73%	73%	76%	76%
LIGHT SWEET CRUDE OIL FUTURES (NY-CL, CS, WS) vs NY JET FUEL (ARGUS) SWAP FUTURES (NY-4Y - CME)						
Spread Credit Rate	Increase	+1:-1	55%	55%	57%	57%
LIGHT, SWEET CRUDE OIL FUTURES (NYM-CL, CS, WS) vs GULF COAST #6 FUEL 3.0% SWAP (NYM-MF - CME)						
Spread Credit Rate	Increase	+1:-1	75%	75%	77%	77%
LIGHT, SWEET CRUDE OIL FUTURES (NYM-CL, CS, WS) vs SINGAPORE GASOIL SWAP (NYM-SG - CME)						
Spread Credit Rate	Increase	+1:-1	60%	60%	71%	71%
LLS (ARGUS) CALENDAR SWAP FUTURES (NY-XA - CME) vs GASOLINE EURO-BOB OXY (ARGUS) NWE BARGES SWAP FUTURES (NY-7H - CME)						
Spread Credit Rate	Increase	-25:+3	50%	50%	60%	60%
LLS (ARGUS) CALENDAR SWAP FUTURES (NY-XA - CME) vs GULF COAST NO. 6 FUEL OIL 3.0% (PLATTS) SWAP FUTURES (NY-MF - CME)						
Spread Credit Rate	Increase	+1:-1	50%	50%	60%	60%
LLS (ARGUS) CALENDAR SWAP FUTURES (NY-XA - CME) vs JAPAN C&F NAPHTHA (PLATTS) SWAP FUTURES (NY-JA - CME)						
Spread Credit Rate	Increase	+9:-1	60%	60%	66%	66%
LOS ANGELES CARB DIESEL (OPIS) OUTRIGHT SWAP FUTURES (NY-LX) vs. JAPAN C&F NAPHTHA (PLATTS) SWAP FUT (NY-JA)						
Spread Credit Rate	Increase	+15:-2	65%	65%	70%	70%
MONT BELVIEU ISO-BUTANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-8I - CME) vs EUROPEAN 1% FUEL OIL (PLATTS) BARGES FOB RDAM CALENDAR SWAP FUTURES (NY-UH - CME)						
Spread Credit Rate	Increase	+15:-2	25%	25%	40%	40%
MONT BELVIEU ISO-BUTANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-8I - CME) vs SINGAPORE GASOIL (PLATTS) SWAP FUTURES (NY-SG - CME)						
Spread Credit Rate	Increase	+1:-1	30%	30%	43%	43%
MONT BELVIEU ISO-BUTANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-8I) vs. EUROPEAN NAPHTHA (PLATTS) CALENDAR SWAP FUTURES (NY-UN)						
Spread Credit Rate	Increase	+9:-1	45%	45%	53%	53%
Spread Credit Rate	Increase	+9:-1	30%	30%	35%	35%

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. GULF COAST NO. 6 FUEL OIL 3.0% (PLATTS) SWAP FUTURES (NY-MF)						
Spread Credit Rate	Increase	+1:-1	50%	50%	55%	55%
Spread Credit Rate	Increase	+1:-1	40%	40%	45%	45%
MONT BELVIEU ISO-BUTANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-8I) vs. GULF COAST ULSD (PLATTS) SWAP FUTURES (NY-LY)						
Spread Credit Rate	Increase	+1:-1	40%	40%	42%	42%
MONT BELVIEU ISO-BUTANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-8I) vs. JAPAN C&F NAPHTHA (PLATTS) SWAP FUTURES (NY-JA)						
Spread Credit Rate	Increase	+15:-2	45%	45%	50%	50%
Spread Credit Rate	Increase	+15:-2	30%	30%	35%	35%
MONT BELVIEU ISO-BUTANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-8I) vs. NEW YORK HARBOR RESIDUAL FUEL 1.0% (PLATTS) SWAP FUTURES (NY-MM)						
Spread Credit Rate	Increase	+1:-1	45%	45%	53%	53%
Spread Credit Rate	Increase	+1:-1	30%	30%	35%	35%
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	40%	40%	45%	45%
MONT BELVIEU LDH PROPANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-B0 - CME) vs GULF COAST ULSD (PLATTS) SWAP FUTURES (NY-LY - CME)						
Spread Credit Rate	Increase	+1:-1	40%	40%	44%	44%
MONT BELVIEU LDH PROPANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-B0) vs. GULF COAST NO.6 FUEL OIL 3.0% (NY-MF)						
Spread Credit Rate	Increase	+1:-1	45%	45%	49%	49%
MONT BELVIEU NATURAL GASOLINE 5 DECIMALS (OPIS) SWAP FUTURES (NY-7Q - CME) vs EUROPEAN 3.5% FUEL OIL (PLATTS) BARGES FOB RDAM CALENDAR SWAP FUTURES (NY-UV - CME)						
Spread Credit Rate	Decrease	+19:-3	69%	69%	64%	64%
MONT BELVIEU NATURAL GASOLINE 5 DECIMALS (OPIS) SWAP FUTURES (NY-7Q - CME) vs GULF COAST NO. 6 FUEL OIL 3.0% (PLATTS) SWAP FUTURES (NY-MF - CME)						
Spread Credit Rate	Decrease	+1:-1	68%	68%	65%	65%
MONT BELVIEU NATURAL GASOLINE 5 DECIMALS (OPIS) SWAP FUTURES (NY-7Q - CME) vs NEW YORK HARBOR RESIDUAL FUEL 1.0% (PLATTS) SWAP FUTURES (NY-MM - CME)						
Spread Credit Rate	Increase	+1:-1	60%	60%	65%	65%
MONT BELVIEU NORMAL BUTANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-D0 - CME) vs GULF COAST NO. 6 FUEL OIL 3.0% (PLATTS) SWAP FUTURES (NY-MF - CME)						
Spread Credit Rate	Increase	+1:-1	45%	45%	55%	55%
MONT BELVIEU NORMAL BUTANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-D0 - CME) vs NEW YORK HARBOR RESIDUAL FUEL 1.0% (PLATTS) SWAP FUTURES (NY-MM - CME)						
Spread Credit Rate	Increase	+1:-1	40%	40%	54%	54%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
MONT BELVIEU NORMAL BUTANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-D0) vs. SINGAPORE MOGAS 92 UNLEADED (PLATTS) SWAP FUTURES (NY-1N)						
Spread Credit Rate	Increase	+1:-1	35%	35%	48%	48%
MONT BELVIEU NORMAL BUTANE LDH (OPIS) SWAP FUTURES (NY-MNB - CME) vs EUROPEAN 3.5% FUEL OIL (PLATTS) BARGES FOB RDAM CALENDAR SWAP FUTURES (NY-UV - CME)						
Spread Credit Rate	Increase	+19:-3	45%	45%	60%	60%
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	Increase	+1:-1	45%	45%	60%	60%
MONT BELVIEU NORMAL BUTANE LDH (OPIS) SWAP FUTURES (NY-MNB - CME) vs GULF COAST ULSD (PLATTS) SWAP FUTURES (NY-LY - CME)						
Spread Credit Rate	Increase	+1:-1	45%	45%	55%	55%
MONT BELVIEU NORMAL BUTANE LDH (OPIS) SWAP FUTURES (NY-MNB - CME) vs NEW YORK HARBOR RESIDUAL FUEL 1.0% (PLATTS) SWAP FUTURES (NY-MM - CME)						
Spread Credit Rate	Increase	+1:-1	45%	45%	58%	58%
MONT BELVIEU NORMAL BUTANE LDH (OPIS) SWAP FUTURES (NY-MNB) vs. EIA FLAT TAX ON-HIGHWAY DIESEL SWAP FUTURES (NY-A5)						
Spread Credit Rate	Increase	+1:-1	45%	45%	54%	54%
MONT BELVIEU NORMAL BUTANE LDH (OPIS) SWAP FUTURES (NY-MNB) vs. EUROPEAN NAPHTHA (PLATTS) CALENDAR SWAP FUTURES (NY-UN)						
Spread Credit Rate	Increase	+9:-1	35%	35%	50%	50%
MONT BELVIEU NORMAL BUTANE LDH (OPIS) SWAP FUTURES (NY-MNB) vs. JAPAN C&F NAPHTHA (PLATTS) SWAP FUTURES (NY-JA)						
Spread Credit Rate	Increase	+15:-2	40%	40%	55%	55%
MONT BELVIEU NORMAL BUTANE LDH (OPIS) SWAP FUTURES (NY-MNB) vs. SINGAPORE FUEL OIL 380 CST (PLATTS) SWAP FUTURES (NY-SE)						
Spread Credit Rate	Decrease	+19:-3	62%	62%	60%	60%
MONT BELVIEU NORMAL BUTANE LDH (OPIS) SWAP FUTURES (NY-MNB) vs. SINGAPORE JET KEROSENE (PLATTS) SWAP FUTURES (NY-KS)						
Spread Credit Rate	Increase	+1:-1	40%	40%	44%	44%
MONT BELVIEU NORMAL BUTANE LDH (OPIS) SWAP FUTURES (NY-MNB) vs. SINGAPORE MOGAS 92 UNLEADED (PLATTS) SWAP FUTURES (NY-1N)						
Spread Credit Rate	Increase	+1:-1	47%	47%	54%	54%
MT BELVIEU NAT GAS 5 D. OPIS (NY-7Q) vs. SINGAPORE GASOIL SWAP (NY-SG)						
Spread Credit Rate	Increase	+1:-1	50%	50%	61%	61%
MT BELVIEU NORMAL BUTANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-D0) vs. SINGAPORE GASOIL (PLATTS) SWAP FUTURES (NY-SG)						
Spread Credit Rate	Increase	+1:-1	35%	35%	45%	45%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
NEW YORK 3.0% FUEL OIL (PLATTS) SWAP (NYM-H1 - CME) vs EUROPEAN 1% FUEL OIL CALENDAR SWAP (NORTHWEST EURO (NYM-UF - CME)						
Spread Credit Rate	Increase	+7:-1	40%	40%	60%	60%
NEW YORK 3.0% FUEL OIL (PLATTS) SWAP (NYM-H1 - CME) vs EUROPEAN 1% FUEL OIL ROTTERDAM CALENDAR SWAP (NYM-UH - CME)						
Spread Credit Rate	Increase	+7:-1	40%	40%	55%	55%
NEW YORK 3.0% FUEL OIL (PLATTS) SWAP (NYM-H1 - CME) vs EUROPEAN 3.5% FUEL OIL ROTTERDAM CALENDAR SWAP (NYM-UV - CME)						
Spread Credit Rate	Increase	+19:-3	40%	40%	60%	60%
NEW YORK 3.0% FUEL OIL (PLATTS) SWAP (NYM-H1 - CME) vs NY HARBOR RESIDUAL FUEL 1.0% SWAP (NYM-MM - CME)						
Spread Credit Rate	Decrease	+1:-1	90%	90%	88%	88%
NEW YORK HARBOR NO. 2 HEATING OIL FUTURES (NY-HO - CME) vs NY 3.0% FUEL OIL (PLATTS) SWAP FUTURES (NY-H1 - CME)						
Spread Credit Rate	Decrease	+1:-1	75%	75%	70%	70%
NEW YORK HARBOR NO. 2 HEATING OIL FUTURES (NY-HO - CME) vs SINGAPORE JET KEROSENE (PLATTS) SWAP FUTURES (NY-KS - CME)						
Spread Credit Rate	Increase	+1:-1	60%	60%	66%	66%
NEW YORK HARBOR RESIDUAL FUEL 1.0% (PLATTS) SWAP FUTURES (NY-MM - CME) vs BRENT CRUDE OIL PENULTIMATE FINANCIAL FUTURES (NY-BB - CME)						
Spread Credit Rate	Decrease	+1:-1	80%	80%	77%	77%
NEW YORK HARBOR RESIDUAL FUEL 1.0% (PLATTS) SWAP FUTURES (NY-MM - CME) vs EUROPEAN 1% FUEL OIL (PLATTS) BARGES FOB RDAM CALENDAR SWAP FUTURES (NY-UH - CME)						
Spread Credit Rate	Decrease	+7:-1	90%	90%	88%	88%
NEW YORK HARBOR RESIDUAL FUEL 1.0% (PLATTS) SWAP FUTURES (NY-MM - CME) vs OMAN CRUDE OIL (NY-OQ - CME)						
Spread Credit Rate	Increase	+1:-1	75%	75%	82%	82%
NY 0.3% FUEL OIL HIPR (PLATTS) SWAP FUTURES (NY-8N - CME) vs JAPAN C&F NAPHTHA (PLATTS) SWAP FUTURES (NY-JA - CME)						
Spread Credit Rate	Increase	+15:-2	40%	40%	55%	55%
NY 0.3% FUEL OIL HIPR (PLATTS) SWAP FUTURES (NY-8N - CME) vs SINGAPORE FUEL OIL 380 CST (PLATTS) SWAP FUTURES (NY-SE - CME)						
Spread Credit Rate	Increase	+19:-3	30%	30%	50%	50%
NY 2.2% FUEL OIL (PLATTS) SWAP FUTURES (NY-H1 - CME) vs PREMIUM UNLEADED GASOLINE 10 PPM (PLATTS) FOB MED SWAP FUTURES (NY-3G - CME)						
Spread Credit Rate	Increase	+25:-3	65%	65%	72%	72%
NY 2.2% FUEL OIL (PLATTS) SWAP FUTURES (NY-H1 - CME) vs SINGAPORE MOGAS 92 UNLEADED (PLATTS) SWAP FUTURES (NY-1N - CME)						
Spread Credit Rate	Increase	+1:-1	60%	60%	70%	70%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
NY 2.2% FUEL OIL (PLATTS) SWAP FUTURES (NY-MM - CME) vs SINGAPORE MOGAS 92 UNLEADED (PLATTS) SWAP FUTURES (NY-1N - CME)						
Spread Credit Rate	Increase	+1:-1	60%	60%	67%	67%
NY 2.2% FUEL OIL (PLATTS) SWAP FUTURES (NY-Y3 - CME) vs JAPAN C&F NAPHTHA (PLATTS) SWAP FUTURES (NY-JA - CME)						
Spread Credit Rate	Increase	+15:-2	70%	70%	75%	75%
NY 2.2% FUEL OIL (PLATTS) SWAP FUTURES (NY-Y3 - CME) vs SINGAPORE FUEL OIL 380 CST (PLATTS) SWAP FUTURES (NY-SE - CME)						
Spread Credit Rate	Increase	+19:-3	30%	30%	45%	45%
NY 3.0% FUEL OIL (PLATTS) SWAP FUTURES (NY-H1 - CME) vs COAL (API 2) CIF ARA (ARGUS/MCCLOSKEY) SWAP FUTURES (NY-MTF - CME)						
Spread Credit Rate	New	+1:-1			20%	20%
NY 3.0% FUEL OIL (PLATTS) SWAP FUTURES (NY-H1 - CME) vs CONWAY NATURAL GASOLINE (OPIS) SWAP FUTURES (NY-8L - CME)						
Spread Credit Rate	Increase	+1:-1	30%	30%	35%	35%
NY 3.0% FUEL OIL (PLATTS) SWAP FUTURES (NY-H1 - CME) vs CONWAY PROPANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-8K - CME)						
Spread Credit Rate	Increase	+1:-1	30%	30%	40%	40%
NY 3.0% FUEL OIL (PLATTS) SWAP FUTURES (NY-H1 - CME) vs DATED BRENT (PLATTS) CALENDAR SWAP FUTURES (NY-UB - CME)						
Spread Credit Rate	Decrease	+1:-1	80%	80%	75%	75%
NY 3.0% FUEL OIL (PLATTS) SWAP FUTURES (NY-H1 - CME) vs EUROPEAN NAPHTHA (PLATTS) CALENDAR SWAP FUTURES (NY-UN - CME)						
Spread Credit Rate	Increase	+9:-1	70%	70%	75%	75%
NY 3.0% FUEL OIL (PLATTS) SWAP FUTURES (NY-H1 - CME) vs GASOLINE EURO-BOB OXY (ARGUS) NWE BARGES SWAP FUTURES (NY-7H - CME)						
Spread Credit Rate	Increase	+25:-3	60%	60%	70%	70%
NY 3.0% FUEL OIL (PLATTS) SWAP FUTURES (NY-H1 - CME) vs JAPAN C&F NAPHTHA (PLATTS) SWAP FUTURES (NY-JA - CME)						
Spread Credit Rate	Increase	+15:-2	70%	70%	75%	75%
NY 3.0% FUEL OIL (PLATTS) SWAP FUTURES (NY-H1 - CME) vs MONT BELVIEU ISO-BUTANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-8I - CME)						
Spread Credit Rate	Increase	+1:-1	30%	30%	45%	45%
NY 3.0% FUEL OIL (PLATTS) SWAP FUTURES (NY-H1 - CME) vs MONT BELVIEU LDH PROPANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-B0 - CME)						
Spread Credit Rate	Increase	+1:-1	30%	30%	35%	35%
NY 3.0% FUEL OIL (PLATTS) SWAP FUTURES (NY-H1 - CME) vs MONT BELVIEU NATURAL GASOLINE 5 DECIMALS (OPIS) SWAP FUTURES (NY-7Q - 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						
NY 3.0% FUEL OIL (PLATTS) SWAP FUTURES (NY-H1 - CME) vs MONT BELVIEU NORMAL BUTANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-D0 - CME)						
Spread Credit Rate	Increase	+1:-1	35%	35%	45%	45%
NY 3.0% FUEL OIL (PLATTS) SWAP FUTURES (NY-H1 - CME) vs MONT BELVIEU NORMAL BUTANE LDH (OPIS) SWAP FUTURES (NY-MNB - CME)						
Spread Credit Rate	Increase	+1:-1	30%	30%	45%	45%
NY 3.0% FUEL OIL (PLATTS) SWAP FUTURES (NY-H1 - CME) vs NEW YORK HARBOR RESIDUAL FUEL 1.0% (PLATTS) SWAP FUTURES (NY-MM - CME)						
Spread Credit Rate	Decrease	+1:-1	90%	90%	88%	88%
NY 3.0% FUEL OIL (PLATTS) SWAP FUTURES (NY-H1 - CME) vs NY 0.3% FUEL OIL HIPR (PLATTS) SWAP FUTURES (NY-8N - CME)						
Spread Credit Rate	Increase	+1:-1	30%	30%	40%	40%
NY 3.0% FUEL OIL (PLATTS) SWAP FUTURES (NY-H1 - CME) vs OMAN CRUDE OIL (NY-OQ - CME)						
Spread Credit Rate	Decrease	+1:-1	80%	80%	75%	75%
NY 3.0% FUEL OIL (PLATTS) SWAP FUTURES (NY-H1 - CME) vs PROPANE NON-LDH MONT BELVIEU (OPIS) SWAP FUTURES (NY-1R - CME)						
Spread Credit Rate	Increase	+1:-1	30%	30%	35%	35%
NY 3.0% FUEL OIL (PLATTS) SWAP FUTURES (NY-H1 - CME) vs SINGAPORE FUEL OIL 180 CST (PLATTS) CALENDAR SWAP FUTURES (NY-UA - CME)						
Spread Credit Rate	Increase	+15:-2	80%	80%	84%	84%
NY 3.0% FUEL OIL (PLATTS) SWAP FUTURES (NY-H1 - CME) vs SINGAPORE FUEL OIL 380 CST (PLATTS) SWAP FUTURES (NY-SE - CME)						
Spread Credit Rate	Increase	+19:-3	80%	80%	85%	85%
NY ETHANOL (PLATTS) SWAP FUTURES (NY-EZ - CME) vs EUROPEAN NAPHTHA (PLATTS) CALENDAR SWAP FUTURES (NY-UN - CME)						
Spread Credit Rate	Increase	+9:-1	30%	30%	40%	40%
NY ETHANOL (PLATTS) SWAP FUTURES (NY-EZ - CME) vs GULF COAST NO. 6 FUEL OIL 3.0% (PLATTS) SWAP FUTURES (NY-MF - CME)						
Spread Credit Rate	Increase	+1:-1	30%	30%	45%	45%
NY ETHANOL (PLATTS) SWAP FUTURES (NY-EZ - CME) vs JAPAN C&F NAPHTHA (PLATTS) SWAP FUTURES (NY-JA - CME)						
Spread Credit Rate	Increase	+15:-2	30%	30%	36%	36%
NY ETHANOL (PLATTS) SWAP FUTURES (NY-EZ - CME) vs SINGAPORE FUEL OIL 380 CST (PLATTS) SWAP FUTURES (NY-SE - CME)						
Spread Credit Rate	Increase	+15:-2	30%	30%	40%	40%
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	Increase	+1:-1	65%	65%	69%	69%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
NY JET FUEL (PLATTS) SWAP FUTURES (NY-1Q - CME) vs EUROPEAN GASOIL BULLET SWAP FUTURES (NY-BG - CME)						
Spread Credit Rate	Increase	+15:-2	40%	40%	55%	55%
NY JET FUEL (PLATTS) SWAP FUTURES (NY-1Q - CME) vs NEW YORK HARBOR NO. 2 HEATING OIL FUTURES (NY-HO - CME)						
Spread Credit Rate	Increase	+1:-1	65%	65%	70%	70%
NY-3G - PREMIUM UNLD 10P FOB MED SWP vs NY-GT - EURO DIESEL 10 CAL SWAP						
Spread Credit Rate	Increase	+1:-1	45%	45%	50%	50%
NY-3G - PREMIUM UNLD 10P FOB MED SWP vs NY-LY - GULF COAST ULSD CALENDAR SWAP						
Spread Credit Rate	Increase	+3:-25	65%	65%	74%	74%
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	80%	80%	83%	83%
OMAN CRUDE OIL (NY-OQ - CME) vs GULF COAST ULSD (PLATTS) SWAP FUTURES (NY-LY - CME)						
Spread Credit Rate	Increase	+1:-1	70%	70%	82%	82%
OMAN CRUDE OIL (NY-OQ - CME) vs SINGAPORE JET KEROSENE (PLATTS) SWAP FUTURES (NY-KS - CME)						
Spread Credit Rate	Increase	+1:-1	55%	55%	63%	63%
OMAN CRUDE OIL (NY-OQ - CME) vs SINGAPORE MOGAS 92 UNLEADED (PLATTS) SWAP FUTURES (NY-1N - CME)						
Spread Credit Rate	Increase	+1:-1	60%	60%	73%	73%
OMAN CRUDE OIL (NY-OQ - CME) vs SINGAPORE MOGAS 95 UNLEADED (PLATTS) SWAP FUTURES (NY-V0 - CME)						
Spread Credit Rate	Increase	+1:-1	65%	65%	69%	69%
PREMIUM UNLEADED GASOLINE 10 PPM (PLATTS) FOB MED SWAP FUTURES (NY-3G - CME) vs 3.5% FUEL OIL (PLATTS) CIF MED SWAP FUTURES (NY-7D - CME)						
Spread Credit Rate	Increase	+1:-1	67%	67%	70%	70%
PREMIUM UNLEADED GASOLINE 10 PPM (PLATTS) FOB MED SWAP FUTURES (NY-3G - CME) vs BRENT CRUDE OIL PENULTIMATE FINANCIAL FUTURES (NY-BB - CME)						
Spread Credit Rate	Increase	+2:-15	55%	55%	57%	57%
PREMIUM UNLEADED GASOLINE 10 PPM (PLATTS) FOB MED SWAP FUTURES (NY-3G - CME) vs CHICAGO ETHANOL (PLATTS) SWAP FUTURES (NY-CU - CME)						
Spread Credit Rate	Increase	+2:-15	25%	25%	41%	41%
PREMIUM UNLEADED GASOLINE 10 PPM (PLATTS) FOB MED SWAP FUTURES (NY-3G - CME) vs COAL (API 2) CIF ARA (ARGUS/MCCLOSKEY) SWAP FUTURES (NY-MTF - CME)						
Spread Credit Rate	Increase	+2:-15	25%	25%	30%	30%
Spread Credit Rate	Increase	+15:-2	25%	25%	30%	30%
PREMIUM UNLEADED GASOLINE 10 PPM (PLATTS) FOB MED SWAP FUTURES (NY-3G - CME) vs COAL (API 4) FOB RICHARDS BAY (ARGUS/MCCLOSKEY) SWAP FUTURES (NY-MFF - CME)						
Spread Credit Rate	Increase	+2:-15	25%	25%	30%	30%
Spread Credit Rate	Increase	+15:-2	25%	25%	30%	30%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
PREMIUM UNLEADED GASOLINE 10 PPM (PLATTS) FOB MED SWAP FUTURES (NY-3G - CME) vs CONWAY NORMAL BUTANE (OPIS) SWAP FUTURES (NY-8M - CME)						
Spread Credit Rate	Increase	+2:-15	45%	45%	50%	50%
PREMIUM UNLEADED GASOLINE 10 PPM (PLATTS) FOB MED SWAP FUTURES (NY-3G - CME) vs DATED BRENT (PLATTS) CALENDAR SWAP FUTURES (NY-UB - CME)						
Spread Credit Rate	Increase	+3:-25	55%	55%	66%	66%
PREMIUM UNLEADED GASOLINE 10 PPM (PLATTS) FOB MED SWAP FUTURES (NY-3G - CME) vs DUBAI CRUDE OIL (PLATTS) CALENDAR SWAP FUTURES (NY-DC - CME)						
Spread Credit Rate	Increase	+3:-25	65%	65%	70%	70%
PREMIUM UNLEADED GASOLINE 10 PPM (PLATTS) FOB MED SWAP FUTURES (NY-3G - CME) vs EUROPEAN 1% FUEL OIL (PLATTS) BARGES FOB RDAM CALENDAR SWAP FUTURES (NY-UH - CME)						
Spread Credit Rate	Increase	+1:-1	45%	45%	60%	60%
PREMIUM UNLEADED GASOLINE 10 PPM (PLATTS) FOB MED SWAP FUTURES (NY-3G - CME) vs EUROPEAN 1% FUEL OIL CARGOES FOB MED (PLATTS) SWAP FUTURES (NY-EFM - CME)						
Spread Credit Rate	Decrease	+1:-1	70%	70%	67%	67%
PREMIUM UNLEADED GASOLINE 10 PPM (PLATTS) FOB MED SWAP FUTURES (NY-3G - CME) vs EUROPEAN 3.5% FUEL OIL (PLATTS) CARGOES FOB MED CALENDAR SWAP FUTURES (NY-UI - CME)						
Spread Credit Rate	Increase	+1:-1	50%	50%	55%	55%
PREMIUM UNLEADED GASOLINE 10 PPM (PLATTS) FOB MED SWAP FUTURES (NY-3G - CME) vs EUROPEAN NAPHTHA (PLATTS) CALENDAR SWAP FUTURES (NY-UN - CME)						
Spread Credit Rate	Increase	+1:-1	70%	70%	74%	74%
PREMIUM UNLEADED GASOLINE 10 PPM (PLATTS) FOB MED SWAP FUTURES (NY-3G - CME) vs GULF COAST JET FUEL (PLATTS) CALENDAR SWAP FUTURES (NY-GE - CME)						
Spread Credit Rate	Increase	+2:-15	65%	65%	70%	70%
PREMIUM UNLEADED GASOLINE 10 PPM (PLATTS) FOB MED SWAP FUTURES (NY-3G - CME) vs NEW YORK HARBOR RESIDUAL FUEL 1.0% (PLATTS) SWAP FUTURES (NY-MM - CME)						
Spread Credit Rate	Increase	+3:-25	65%	65%	70%	70%
PREMIUM UNLEADED GASOLINE 10 PPM (PLATTS) FOB MED SWAP FUTURES (NY-3G - CME) vs NY ETHANOL (PLATTS) SWAP FUTURES (NY-EZ - CME)						
Spread Credit Rate	Increase	+2:-15	30%	30%	45%	45%
PREMIUM UNLEADED GASOLINE 10 PPM (PLATTS) FOB MED SWAP FUTURES (NY-3G - CME) vs OMAN CRUDE OIL (NY-OQ - CME)						
Spread Credit Rate	Increase	+3:-25	65%	65%	68%	68%
PROPANE NON-LDH MONT BELVIEU (OPIS) SWAP FUTURES (NY-1R - CME) vs 1% FUEL OIL (PLATTS) CARGOES CIF MED SWAP FUTURES (NY-1W - CME)						
Spread Credit Rate	Decrease	+19:-3	55%	55%	45%	45%
PROPANE NON-LDH MONT BELVIEU (OPIS) SWAP FUTURES (NY-1R - CME) vs EUROPEAN 1% FUEL OIL (PLATTS) BARGES FOB RDAM CALENDAR SWAP FUTURES (NY-UH - CME)						
Spread Credit Rate	Decrease	+15:-2	50%	50%	45%	45%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
PROPANE NON-LDH MONT BELVIEU (OPIS) SWAP FUTURES (NY-1R - CME) vs EUROPEAN 1% FUEL OIL (PLATTS) CARGOES FOB NWE CALENDAR SWAP FUTURES (NY-UF - CME)						
Spread Credit Rate	Decrease	+15:-2	52%	52%	47%	47%
PROPANE NON-LDH MONT BELVIEU (OPIS) SWAP FUTURES (NY-1R - CME) vs EUROPEAN 3.5% FUEL OIL (PLATTS) BARGES FOB RDAM CALENDAR SWAP FUTURES (NY-UV - CME)						
Spread Credit Rate	Decrease	+19:-3	50%	50%	45%	45%
PROPANE NON-LDH MONT BELVIEU (OPIS) SWAP FUTURES (NY-1R - CME) vs GULF COAST ULSD (PLATTS) SWAP FUTURES (NY-LY - CME)						
Spread Credit Rate	Increase	+1:-1	40%	40%	43%	43%
PROPANE NON-LDH MONT BELVIEU (OPIS) SWAP FUTURES (NY-1R - CME) vs JAPAN C&F NAPHTHA (PLATTS) SWAP FUTURES (NY-JA - CME)						
Spread Credit Rate	Increase	+15:-2	52%	52%	55%	55%
PROPANE NON-LDH MONT BELVIEU (OPIS) SWAP FUTURES (NY-1R - CME) vs SINGAPORE FUEL OIL 180 CST (PLATTS) CALENDAR SWAP FUTURES (NY-UA - CME)						
Spread Credit Rate	Decrease	+19:-3	50%	50%	45%	45%
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%	45%	45%
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%	42%	42%
RBOB GASOLINE FUTURES (NY-RB - CME) vs 1% FUEL OIL (PLATTS) CARGOES CIF MED SWAP FUTURES (NY-1W - CME)						
Spread Credit Rate	Increase	+19:-3	65%	65%	68%	68%
RBOB GASOLINE FUTURES (NY-RB - CME) vs 1% FUEL OIL (PLATTS) CARGOES CIF MED SWAP FUTURES (NY-UF - CME)						
Spread Credit Rate	Increase	+15:-2	62%	62%	66%	66%
RBOB GASOLINE FUTURES (NY-RB - CME) vs PREMIUM UNLEADED GASOLINE 10 PPM (PLATTS) FOB MED SWAP FUTURES (NY-3G - CME)						
Spread Credit Rate	Increase	+25:-3	87%	87%	89%	89%
SINGAPORE FUEL OIL 180 CST (PLATTS) CALENDAR SWAP FUTURES (NY-UA - CME) vs GULF COAST NO. 6 FUEL OIL 3.0% (PLATTS) SWAP FUTURES (NY-MF - CME)						
Spread Credit Rate	Decrease	+2:-15	87%	87%	85%	85%
SINGAPORE FUEL OIL 180 CST (PLATTS) CALENDAR SWAP FUTURES (NY-UA - CME) vs MONT BELVIEU NORMAL BUTANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-D0 - CME)						
Spread Credit Rate	Increase	+2:-15	46%	46%	50%	50%
SINGAPORE FUEL OIL 380 CST (PLATTS) SWAP FUTURES (NY-SE - CME) vs CONWAY NORMAL BUTANE (OPIS) SWAP FUTURES (NY-8M - CME)						
Spread Credit Rate	Increase	+3:-19	30%	30%	41%	41%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
SINGAPORE FUEL OIL 380 CST (PLATTS) SWAP FUTURES (NY-SE - CME) vs CONWAY PROPANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-8K - CME)						
Spread Credit Rate	Decrease	+3:-19	45%	45%	43%	43%
SINGAPORE FUEL OIL 380 CST (PLATTS) SWAP FUTURES (NY-SE - CME) vs DATED BRENT (PLATTS) CALENDAR SWAP FUTURES (NY-UB - CME)						
Spread Credit Rate	Decrease	+3:-19	75%	75%	74%	74%
SINGAPORE FUEL OIL 380 CST (PLATTS) SWAP FUTURES (NY-SE - CME) vs EUROPEAN 1% FUEL OIL (PLATTS) CARGOES FOB NWE CALENDAR SWAP FUTURES (NY-UF - CME)						
Spread Credit Rate	Increase	+1:-1	90%	90%	92%	92%
SINGAPORE FUEL OIL 380 CST (PLATTS) SWAP FUTURES (NY-SE - CME) vs MONT BELVIEU NATURAL GASOLINE 5 DECIMALS (OPIS) SWAP FUTURES (NY-7Q - CME)						
Spread Credit Rate	Decrease	+3:-19	68%	68%	65%	65%
SINGAPORE FUEL OIL 380 CST (PLATTS) SWAP FUTURES (NY-SE - CME) vs MONT BELVIEU NORMAL BUTANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-D0 - CME)						
Spread Credit Rate	Increase	+3:-19	50%	50%	55%	55%
SINGAPORE FUEL OIL 380 CST (PLATTS) SWAP FUTURES (NY-SE - CME) vs SINGAPORE JET KEROSENE (PLATTS) SWAP FUTURES (NY-KS - CME)						
Spread Credit Rate	Increase	+3:-19	50%	50%	59%	59%
SINGAPORE GASOIL (PLATTS) SWAP FUTURES (NY-SG - CME) vs CHICAGO ETHANOL (PLATTS) SWAP FUTURES (NY-CU - CME)						
Spread Credit Rate	Increase	+1:-1	25%	25%	36%	36%
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	60%	60%	69%	69%
SINGAPORE GASOIL (PLATTS) SWAP FUTURES (NY-SG - CME) vs GULF COAST NO. 6 FUEL OIL 3.0% (PLATTS) SWAP FUTURES (NY-MF - CME)						
Spread Credit Rate	Increase	+1:-1	56%	56%	60%	60%
SINGAPORE GASOIL (PLATTS) SWAP FUTURES (NY-SG - CME) vs GULF COAST ULSD (PLATTS) SWAP FUTURES (NY-LY - CME)						
Spread Credit Rate	Increase	+1:-1	60%	60%	69%	69%
SINGAPORE GASOIL SWAP (NYM-SG - CME) vs SINGAPORE 380CST FUEL OIL (PLATTS) SWAP (NYM-SE - CME)						
Spread Credit Rate	Increase	+19:-3	52%	52%	60%	60%
SINGAPORE JET KEROSENE (PLATTS) SWAP FUTURES (NY-KS - CME) vs DATED BRENT (PLATTS) CALENDAR SWAP FUTURES (NY-UB - CME)						
Spread Credit Rate	Increase	+1:-1	55%	55%	57%	57%
SINGAPORE JET KEROSENE (PLATTS) SWAP FUTURES (NY-KS - CME) vs GULF COAST NO. 6 FUEL OIL 3.0% (PLATTS) SWAP FUTURES (NY-UV - CME)						
Spread Credit Rate	Increase	+3:-19	50%	50%	60%	60%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
SINGAPORE JET KEROSENE (PLATTS) SWAP FUTURES (NY-KS - CME) vs SINGAPORE MOGAS 92 UNLEADED (PLATTS) SWAP FUTURES (NY-1N - CME)						
Spread Credit Rate	Increase	+1:-1	50%	50%	55%	55%
SINGAPORE JET KEROSENE (PLATTS) SWAP FUTURES (NY-KS - CME) vs SINGAPORE MOGAS 95 UNLEADED (PLATTS) SWAP FUTURES (NY-V0 - CME)						
Spread Credit Rate	Increase	+1:-1	40%	40%	49%	49%
SINGAPORE JET KEROSENE SWAP (NY-KS) vs. MT BELVIEU NAT GAS 5 D. OPIS (NY-7Q)						
Spread Credit Rate	Decrease	+1:-1	65%	65%	57%	57%
SINGAPORE MOGAS 92 UNLEADED (PLATTS) SWAP FUTURES (NY-1N - CME) vs 1% FUEL OIL (PLATTS) CARGOES CIF MED SWAP FUTURES (NY-1W - CME)						
Spread Credit Rate	Increase	+19:-3	65%	65%	68%	68%
SINGAPORE MOGAS 92 UNLEADED (PLATTS) SWAP FUTURES (NY-1N - CME) vs 1% FUEL OIL (PLATTS) CARGOES CIF MED SWAP FUTURES (NY-UF - CME)						
Spread Credit Rate	Increase	+15:-2	60%	60%	67%	67%
SINGAPORE MOGAS 92 UNLEADED (PLATTS) SWAP FUTURES (NY-1N - CME) vs DAILY GASOLINE EURO-BOB OXY (ARGUS) NWE BARGES SWAP FUTURES (NY-GBR - CME)						
Spread Credit Rate	Increase	+1:-1	15%	15%	35%	35%
SINGAPORE MOGAS 92 UNLEADED (PLATTS) SWAP FUTURES (NY-1N - CME) vs DUBAI CRUDE OIL (PLATTS) CALENDAR SWAP FUTURES (NY-DC - CME)						
Spread Credit Rate	Increase	+1:-1	55%	55%	68%	68%
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	65%	65%	70%	70%
SINGAPORE MOGAS 92 UNLEADED (PLATTS) SWAP FUTURES (NY-1N - CME) vs GULF COAST NO. 6 FUEL OIL 3.0% (PLATTS) SWAP FUTURES (NY-MF - CME)						
Spread Credit Rate	Increase	+1:-1	61%	61%	70%	70%
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	New	+1:-1			35%	35%
Spread Credit Rate	Increase	+1:-1	30%	30%	40%	40%
SINGAPORE MOGAS 92 UNLEADED (PLATTS) SWAP FUTURES (NY-1N - CME) vs MONT BELVIEU NATURAL GASOLINE 5 DECIMALS (OPIS) SWAP FUTURES (NY-7Q - CME)						
Spread Credit Rate	Increase	+1:-1	55%	55%	57%	57%
SINGAPORE MOGAS 92 UNLEADED (PLATTS) SWAP FUTURES (NY-1N - CME) vs SINGAPORE FUEL OIL 380 CST (PLATTS) SWAP FUTURES (NY-UA - CME)						
Spread Credit Rate	Increase	+15:-2	60%	60%	68%	68%
SINGAPORE MOGAS 92 UNLEADED (PLATTS) SWAP FUTURES (NY-1N - CME) vs SINGAPORE MOGAS 97 UNLEADED (PLATTS) SWAP FUTURES (NY-X0 - CME)						
Spread Credit Rate	Increase	+1:-1	50%	50%	65%	65%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
SINGAPORE MOGAS 95 UNLEADED (PLATTS) SWAP FUTURES (NY-V0 - CME) vs GULF COAST JET FUEL (PLATTS) CALENDAR SWAP FUTURES (NY-GE - CME)						
Spread Credit Rate	Increase	+1:-1	60%	60%	68%	68%
SINGAPORE MOGAS 95 UNLEADED (PLATTS) SWAP FUTURES (NY-V0 - CME) vs NEW YORK HARBOR NO. 2 HEATING OIL FUTURES (NY-HO - CME)						
Spread Credit Rate	Increase	+1:-1	70%	70%	75%	75%
SINGAPORE MOGAS 95 UNLEADED (PLATTS) SWAP FUTURES (NY-V0 - CME) vs RBOB GASOLINE FUTURES (NY-RB - CME)						
Spread Credit Rate	Increase	+1:-1	70%	70%	81%	81%
ULSD 10PPM CARGOES CIF NWE S (NY-TY) vs SINGAPORE 380CST FUEL OIL SWAP (NY-SE)						
Spread Credit Rate	Decrease	+1:-1	60%	60%	50%	50%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Tier Description	Change	Current Initial	Current Maintenance	New Initial	New Maintenance
Volatility Scan (volScan) Rate						
EQUITY INDEX - Volatility Scan (volScan) Rate						
S&P 500 (7S, 8A, 8B, ES, ES, ESI, ESQ, EST, EV, EW, MDV, MDW, MMV, MMW, SP, SP, YP1) - volScan						
Clearing Member Rate	Month 1	Decrease		0.075		0.050
Clearing Member Rate	Months 2+	Decrease		0.055		0.040
FX - Volatility Scan (volScan) Rate						
AUSTRALIAN DOLLAR (AD, AD, ADU, M6A, V6A, V6A, VXA, WAD, XA) - volScan						
Clearing Member Rate		Decrease		15.000%		10.000%
BRITISH POUND (BP, BP, GBU, M6B, V6B, V6B, VXB, WGB, YB) - volScan						
Clearing Member Rate	Month1-3	Decrease		20.000%		15.000%
Clearing Member Rate	Months 4+	Decrease		18.000%		15.000%
CANADIAN DOLLAR (CAU, CD, CD, MCD, V6C, V6C, VXC, WCD, YD) - volScan						
Clearing Member Rate	Months 5+	Decrease		15.000%		10.000%
EURO FX (E7, EC, EC, EUU, M6E, V6E, V6E, VXT, WEC, YT) - volScan						
Clearing Member Rate	Months 4+	Decrease		18.000%		15.000%
JAPANESE YEN (J7, JPU, JY, JY, MJY, V6J, V6J, VXJ, WJY, YJ) - volScan						
Clearing Member Rate	Months 4+	Decrease		18.000%		15.000%
Clearing Member Rate	Month 1-3	Decrease		25.000%		20.000%
SWISS FRANC (CHU, MSF, SF, SF, V6S, VXS, YS) - volScan						
Clearing Member Rate	Month 1-3	Decrease		18.000%		15.000%
Clearing Member Rate	Months 4+	Decrease		17.000%		14.000%