CME Group

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

FROM: CME Clearing

SUBJECT: Performance Bond Requirements

DATE: Thursday, February 18, 2016

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

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

and subscribe to the Performance Bond Rates Advisory Notice listserver.

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

The rates will be effective after the close of business on

Friday, February 19, 2016.

Current rates as of:

Thursday, February 18, 2016.

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

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

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

The advisory includes new products' splitting methodology to Modified Split. The specific products can be found in the last pages of the advisory.

Please refer to Advisory #12-259 for more detail regarding the Modified Split methodology.

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
Outright Rates								
AGRICULTURE - Outright Rates								
CASH BUTTER FUTURES (CB)								
CB	Spec	Months 5-	Increase	USD	2,200	2,000	2,530	2,300
CB	Hedge/Member	Months 5-	Increase	USD	2,000	2,000	2,300	2,300
CASH CHEESE FUTURES (CSC)								
CSC	Spec	Mnths 2-5	Decrease	USD	1,650	1,500	1,430	1,300
CSC	Hedge/Member	Mnths 2-5	Decrease	USD	1,500	1,500	1,300	1,300
CME DRY WHEY FUTURES (DY)								
DY	Spec	Month 1-2	Decrease	USD	1,320	1,200	1,100	1,000
DY	Hedge/Member	Month 1-2	Decrease	USD	1,200	1,200	1,000	1,000
DY	Spec	Month 3+	Decrease	USD	2,090	1,900	1,760	1,600
DY	Hedge/Member	Month 3+	Decrease	USD	1,900	1,900	1,600	1,600
DAP FOB NOLA SWAP (DFL)								
DFL	Spec		Decrease	USD	2,750	2,500	2,310	2,100
DFL	Hedge/Member		Decrease	USD	2,500	2,500	2,100	2,100
MINI-SIZED SOYBEANS FUTURES (YK)								
YK	Spec	All Months	Decrease	USD	462	420	396	360
YK	Hedge/Member	All Months	Decrease	USD	420	420	360	360
SOYBEAN FUTURES (S)								
S	Spec	All Months	Decrease	USD	2,310	2,100	1,980	1,800
S	Hedge/Member	All Months	Decrease	USD	2,100	2,100	1,800	1,800
SOYBEAN MEAL FUTURES (06)								
06	Spec	Old Crop	Decrease	USD	1,980	1,800	1,650	1,500
06	Hedge/Member	Old Crop	Decrease	USD	1,800	1,800	1,500	1,500
06	Spec	New Crop	Decrease	USD	1,980	1,800	1,650	1,500
06	Hedge/Member	New Crop	Decrease	USD	1,800	1,800	1,500	1,500
SOYBEAN MEAL TAS FUTURES (ZMT)								
ZMT	Spec	Old Crop	Decrease	USD	1,980	1,800	1,650	1,500
ZMT	Hedge/Member	Old Crop	Decrease	USD	1,800	1,800	1,500	1,500
ZMT	Spec	New Crop	Decrease	USD	1,980	1,800	1,650	1,500
ZMT	Hedge/Member	New Crop	Decrease	USD	1,800	1,800	1,500	1,500
SOYBEAN OIL FUTURES (07)								
07	Spec	All Months	Decrease	USD	1,045	950	880	800
07	Hedge/Member	All Months	Decrease	USD	950	950	800	800
SOYBEAN OIL TAS FUTURES (ZLT)								

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
Outright Rates								
ZLT	Spec	All Months	Decrease	USD	1,045	950	880	800
ZLT	Hedge/Member	All Months	Decrease	USD	950	950	800	800
SOYBEAN TAS FUTURE (SBT)								
SBT	Spec	All Months	Decrease	USD	2,310	2,100	1,980	1,800
SBT	Hedge/Member	All Months	Decrease	USD	2,100	2,100	1,800	1,800
ELECTRICITY - Outright Rates								
NYISO ZONE G DA OP DAILY (ZGO)								
ZGO	Spec	Days 1-10	Increase	USD	116	105	165	150
ZGO	Hedge/Member	Days 1-10	Increase	USD	105	105	150	150
NYISO ZONE J DA OP DAILY (ZJO)								
ZJO	Spec	Days 1-10	Increase	USD	165	150	193	175
ZJO	Hedge/Member	Days 1-10	Increase	USD	150	150	175	175
ONTARIO PEAK CAL-DAY FUTURES (OPD)								
OPD	Spec	Days 1-11	Increase	CAD	2,200	2,000	3,300	3,000
OPD	Hedge/Member	Days 1-11	Increase	CAD	2,000	2,000	3,000	3,000
ERIS - Outright Rates								
ERIS 12-YR INT RATE SWAP SEC COUPON (ZD9212)								
ZD9212	Spec	Months 20+	Decrease	USD	3,850	3,500	2,860	2,600
ZD9212	Hedge/Member	Months 20+	Decrease	USD	3,500	3,500	2,600	2,600
ERIS 3-YR INT RATE SWAP SEC (ZB9203)								
ZB9203	Spec	mnths 20+	Decrease	USD	1,705	1,550	1,210	1,100
ZB9203	Hedge/Member	mnths 20+	Decrease	USD	1,550	1,550	1,100	1,100
ERIS - Outright Rates								
ERIS 20-YR INT RATE SWAP SEC COUPON (ZD9220)								
ZD9220	Spec	Months 20+	Decrease	USD	5,720	5,200	4,400	4,000
ZD9220	Hedge/Member	Months 20+	Decrease	USD	5,200	5,200	4,000	4,000

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
Outright Rates								
ETHANOL - Outright Rates								
CHICAGO ETHANOL 1 MTH SYN CAL SPD (1CE)								
1CE	Spec	All Months	New	USD			2,750	2,500
1CE	Hedge/Member	All Months	New	USD			2,500	2,500
CHICAGO ETHANOL 2 MTH SYN CAL SPD (2CE)								
2CE	Spec	All Months	New	USD			2,750	2,500
2CE	Hedge/Member	All Months	New	USD			2,500	2,500
CHICAGO ETHANOL 3 MTH SYN CAL SPD (3CE)								
3CE	Spec	All Months	New	USD			2,750	2,500
3CE	Hedge/Member	All Months	New	USD			2,500	2,500
CHICAGO ETHANOL 6 MTH SYN CAL SPD (6CE)								
6CE	Spec	All Months	New	USD			2,750	2,500
6CE	Hedge/Member	All Months	New	USD			2,500	2,500
NATURAL GAS - Outright Rates								
LNG DES JAPAN (RIM) FUTURES (JNG)								
JNG	Spec		New	USD			8,360	7,600
JNG	Hedge/Member		New	USD			7,600	7,600
NGL/PETROCHEMICALS - Outright Rates								
EURO PROPANE CIF ARA FUT (PS)								
PS	Spec	Mths 4+	Increase	USD	33,000	30,000	38,500	35,000
PS	Hedge/Member	Mths 4+	Increase	USD	30,000	30,000	35,000	35,000

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
Outright Rates								
PETROLEUM CRACKS AND SPREADS - Outright Rates								
EAST/WEST FUEL OIL SPREAD FUT (EW)								
EW	Spec	Mths 4-9	Increase	USD	2,805	2,550	3,190	2,900
EW	Hedge/Member	Mths 4-9	Increase	USD	2,550	2,550	2,900	2,900
MINI 380CST VS 3.5% FUEL OIL FUT (MSB)								
MSB	Spec	Mnths 3-6	Increase	USD	330	300	385	350
MSB	Hedge/Member	Mnths 3-6	Increase	USD	300	300	350	350
MSB	Spec	Mnths 7-15	Increase	USD	341	310	396	360
MSB	Hedge/Member	Mnths 7-15	Increase	USD	310	310	360	360
MINI EAST-WEST FUEL OIL FUTURES (MEW)								
MEW	Spec	Mths 4-9	Increase	USD	281	255	319	290
MEW	Hedge/Member	Mths 4-9	Increase	USD	255	255	290	290
SING 380 FUEL OIL VS FUEL OIL ROTDM (EVC)								
EVC	Spec	Mnths 3-6	Increase	USD	3,300	3,000	3,850	3,500
EVC	Hedge/Member	Mnths 3-6	Increase	USD	3,000	3,000	3,500	3,500
EVC	Spec	Mnths 7-15	Increase	USD	3,410	3,100	3,960	3,600
EVC	Hedge/Member	Mnths 7-15	Increase	USD	3,100	3,100	3,600	3,600
SPORE MOGAS92 UNLD BRENT SPRD FUT (1NB)								
1NB	Spec	Mnths 2+	Increase	USD	1,760	1,600	2,200	2,000
1NB	Hedge/Member	Mnths 2+	Increase	USD	1,600	1,600	2,000	2,000

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
Intra Spreads								
				ELECTRICITY - Intra Spreads				
CIN HUB 5MW REAL TIME PEAK - All Months (MISO INDIANA HUB 5MW REAL TIME PK)								
H3	Spec		Increase	USD	165	150	220	200
H3	Hedge/Member		Increase	USD	150	150	200	200
CINERGY HUB 5 MW OFF-PEAK CALENDAR-MONTH REAL-TIME SWAP- All Months (MISO INDIANA HUB 5MW REAL TIME OFPK)								
H4	Spec		Increase	USD	11	10	17	15
H4	Hedge/Member		Increase	USD	10	10	15	15
MISO CINERGY HUB 5 MW OFF-PEAK DAY-AHEAD SWAP - All Months (MISO INDIANA HUB 5MW D AH O PK)								
K2	Spec		Increase	USD	11	10	17	15
K2	Hedge/Member		Increase	USD	10	10	15	15
				NATURAL GAS - Intra Spreads				
LNG DES Japan (RIM) Futures - All Months (LNG DES JAPAN (RIM) FUTURES)								
JNG	Spec		New	USD			3,740	3,400
JNG	Hedge/Member		New	USD			3,400	3,400
				PETROLEUM CRACKS AND SPREADS - Intra Spreads				
Singapore Fuel Oil 380 cst (Platts) vs. European 3.5% Fuel Oil Barges FOB Rdam (Platts) Futures - All Months (MINI 380CST VS 3.5% FUEL OIL FUT)								
MSB	Spec		Increase	USD	297	270	330	300
MSB	Hedge/Member		Increase	USD	270	270	300	300
Singapore Fuel Oil 380 cst (Platts) vs. European 3.5% Fuel Oil Barges FOB Rdam (Platts) Futures - All Months (SING 380 FUEL OIL VS FUEL OIL ROTDM)								
EVC	Spec		Increase	USD	2,970	2,700	3,300	3,000
EVC	Hedge/Member		Increase	USD	2,700	2,700	3,000	3,000
				REFINED PRODUCTS - Intra Spreads				
European 1% Fuel Oil Rotterdam Calendar Swap - All Months (EUROPE 1% FUEL OIL RDAM CALFUT)								
UH	Spec		Increase	USD	7,150	6,500	7,700	7,000
UH	Hedge/Member		Increase	USD	6,500	6,500	7,000	7,000
European 1% Fuel Oil Rotterdam Calendar Swap - All Months (MINI EURO 1% FUEL OIL FOBRDM FUT)								
T0	Spec		Increase	USD	715	650	770	700
T0	Hedge/Member		Increase	USD	650	650	700	700

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 (ICE) CALENDAR SWAP FUTURES (NY-CY - CME)

Spread Credit Rate	Decrease	+2:-15	75%	75%	60%	60%

1% FUEL OIL (PLATTS) CARGOES CIF MED SWAP FUTURES (NY-1W - CME) vs BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME)

Spread Credit Rate	Decrease	+2:-15	75%	75%	60%	60%

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	75%	75%	60%	60%

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%	65%	65%

1% FUEL OIL (PLATTS) CARGOES CIF MED SWAP FUTURES (NY-1W - CME) vs DUBAI CRUDE OIL (PLATTS) CALENDAR SWAP FUTURES (NY-DC - CME)

Spread Credit Rate	Decrease	+3:-19	80%	80%	65%	65%

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	75%	75%	60%	60%

1% FUEL OIL (PLATTS) CARGOES CIF MED SWAP FUTURES (NY-1W - CME) vs WTI CALENDAR SWAP FUTURES (NY-CS - CME)

Spread Credit Rate	Decrease	+3:-19	75%	75%	60%	60%

ARGUS PROPANE (SAUDI ARAMCO) SWAP FUTURES (NY-9N - CME) vs BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME)

Spread Credit Rate	Decrease	+2:-15	55%	55%	40%	40%

ARGUS PROPANE (SAUDI ARAMCO) SWAP FUTURES (NY-9N - CME) vs BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME)

Spread Credit Rate	Decrease	+2:-15	55%	55%	40%	40%

ARGUS PROPANE (SAUDI ARAMCO) SWAP FUTURES (NY-9N - CME) vs BRENT CRUDE OIL PENULTIMATE FINANCIAL FUTURES (NY-BB - CME)

Spread Credit Rate	Decrease	+2:-15	55%	55%	40%	40%

ARGUS PROPANE (SAUDI ARAMCO) SWAP FUTURES (NY-9N - CME) vs DATED BRENT (PLATTS) CALENDAR SWAP FUTURES (NY-UB - CME)

Spread Credit Rate	Decrease	+1:-12	45%	45%	35%	35%

ARGUS PROPANE FAR EAST INDEX SWAP FUTURES (NY-7E - CME) vs BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME)

Spread Credit Rate	Increase	+2:-15	55%	55%	65%	65%

ARGUS PROPANE FAR EAST INDEX SWAP FUTURES (NY-7E - CME) vs BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME)

Spread Credit Rate	Increase	+2:-15	55%	55%	65%	65%

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 BRENT CRUDE OIL PENULTIMATE FINANCIAL FUTURES (NY-BB - CME)						
Spread Credit Rate	Increase	+2:-15	55%	55%	65%	65%
ARGUS PROPANE FAR EAST INDEX SWAP FUTURES (NY-7E - CME) vs DATED BRENT (PLATTS) CALENDAR SWAP FUTURES (NY-UB - CME)						
Spread Credit Rate	Increase	+1:-12	55%	55%	65%	65%
ARGUS PROPANE FAR EAST INDEX SWAP FUTURES (NY-7E - CME) vs DME OMAN CRUDE OIL SWAP FUTURES (NY-DOO - CME)						
Spread Credit Rate	Increase	+2:-15	55%	55%	70%	70%
ARGUS PROPANE FAR EAST INDEX SWAP FUTURES (NY-7E - CME) vs DUBAI CRUDE OIL (PLATTS) CALENDAR SWAP FUTURES (NY-DC - CME)						
Spread Credit Rate	Increase	+1:-12	45%	45%	70%	70%
ARGUS PROPANE FAR EAST INDEX SWAP FUTURES (NY-7E - CME) vs OMAN CRUDE OIL (NY-OQ - CME)						
Spread Credit Rate	Increase	+2:-15	55%	55%	70%	70%
BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME) vs EUROPEAN 1% FUEL OIL (PLATTS) BARGES FOB RDAM CALENDAR SWAP FUTURES (NY-UH - CME)						
Spread Credit Rate	Decrease	+33:-5	85%	85%	65%	65%
BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME) vs EUROPEAN 1% FUEL OIL (PLATTS) BARGES FOB RDAM CALENDAR SWAP FUTURES (NY-UH - CME).						
Spread Credit Rate	Decrease	+33:-5	85%	85%	65%	65%
BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME) vs GULF COAST ULSD (PLATTS) SWAP FUTURES (NY-LY - CME)						
Spread Credit Rate	Increase	+1:-1	60%	60%	70%	70%
BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME) vs HEATING OIL CALENDAR SWAP FUTURES (NY-MP - CME)						
Spread Credit Rate	Increase	+1:-1	40%	40%	70%	70%
BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME) vs HEATING OIL FINANCIAL FUTURES (NY-BH - CME)						
Spread Credit Rate	Increase	+1:-1	60%	60%	70%	70%
BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME) vs HEATING OIL LAST DAY FINANCIAL FUTURES (NY-23 - CME)						
Spread Credit Rate	Increase	+1:-1	60%	60%	70%	70%
BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME) vs MONT BELVIEU NORMAL BUTANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-D0 - CME)						
Spread Credit Rate	Decrease	+1:-1	50%	50%	40%	40%
BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME) vs NEW YORK HARBOR NO. 2 HEATING OIL FUTURES (NY-HO - CME)						
Spread Credit Rate	Increase	+1:-1	60%	60%	70%	70%
BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME) vs NEW YORK HARBOR RESIDUAL FUEL 1.0% (PLATTS) SWAP FUTURES (NY-MM - CME)						
Spread Credit Rate	Decrease	+1:-1	80%	80%	70%	70%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME) vs PROPANE NON-LDH MONT BELVIEU (OPIS) SWAP FUTURES (NY-1R - CME)						
Spread Credit Rate	Decrease	+1:-1	45%	45%	35%	35%
BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME) vs RBOB GASOLINE CALENDAR SWAP FUTURES (NY-RL - CME)						
Spread Credit Rate	Decrease	+1:-1	75%	75%	72%	72%
BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME) vs RBOB GASOLINE FUTURES (NY-RB - CME)						
Spread Credit Rate	Decrease	+1:-1	70%	70%	68%	68%
Spread Credit Rate	Decrease	+1:-1	75%	75%	72%	72%
BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME) vs SINGAPORE FUEL OIL 380 CST (PLATTS) SWAP FUTURES (NY-SE - CME)						
Spread Credit Rate	Decrease	+19:-3	85%	85%	75%	75%
BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME) vs SINGAPORE FUEL OIL 380 CST (PLATTS) SWAP FUTURES (NY-SE - CME).						
Spread Credit Rate	Decrease	+19:-3	85%	85%	75%	75%
BRENT CRUDE OIL BULLET SWAP FINANCIAL (NYM-BB, BZ, CY) vs HEATING OIL (NYM-HO, BH, MP)						
Spread Credit Rate	Increase	+1:-1	60%	60%	70%	70%
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	85%	85%	75%	75%
BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME) vs EUROPEAN 1% FUEL OIL (PLATTS) BARGES FOB RDAM CALENDAR SWAP FUTURES (NY-UH - CME)						
Spread Credit Rate	Decrease	+33:-5	85%	85%	65%	65%
BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME) vs GULF COAST ULSD (PLATTS) SWAP FUTURES (NY-LY - CME)						
Spread Credit Rate	Increase	+1:-1	60%	60%	70%	70%
BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME) vs HEATING OIL CALENDAR SWAP FUTURES (NY-MP - CME)						
Spread Credit Rate	Increase	+1:-1	65%	65%	70%	70%
BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME) vs HEATING OIL FINANCIAL FUTURES (NY-BH - CME)						
Spread Credit Rate	Increase	+1:-1	60%	60%	70%	70%
BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME) vs HEATING OIL LAST DAY FINANCIAL FUTURES (NY-23 - CME)						
Spread Credit Rate	Increase	+1:-1	60%	60%	70%	70%
BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME) vs MONT BELVIEU NORMAL BUTANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-D0 - CME)						
Spread Credit Rate	Decrease	+1:-1	50%	50%	40%	40%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME) vs NEW YORK HARBOR NO. 2 HEATING OIL FUTURES (NY-HO - CME)						
Spread Credit Rate	Increase	+1:-1	60%	60%	70%	70%
BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME) vs NEW YORK HARBOR RESIDUAL FUEL 1.0% (PLATTS) SWAP FUTURES (NY-MM - CME)						
Spread Credit Rate	Decrease	+1:-1	80%	80%	70%	70%
BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME) vs PROPANE NON-LDH MONT BELVIEU (OPIS) SWAP FUTURES (NY-1R - CME)						
Spread Credit Rate	Decrease	+1:-1	45%	45%	35%	35%
BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME) vs RBOB GASOLINE FUTURES (NY-RB - CME)						
Spread Credit Rate	Decrease	+1:-1	75%	75%	72%	72%
Spread Credit Rate	Decrease	+1:-1	70%	70%	68%	68%
BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME) vs SINGAPORE FUEL OIL 380 CST (PLATTS) SWAP FUTURES (NY-SE - CME)						
Spread Credit Rate	Decrease	+19:-3	85%	85%	75%	75%
BRENT CRUDE OIL PENULTIMATE FINANCIAL FUTURES (NY-BB - CME) vs EUROPEAN 1% FUEL OIL (PLATTS) BARGES FOB RDAM CALENDAR SWAP FUTURES (NY-UH - CME)						
Spread Credit Rate	Decrease	+33:-5	85%	85%	65%	65%
BRENT CRUDE OIL PENULTIMATE FINANCIAL FUTURES (NY-BB - CME) vs GULF COAST ULSD (PLATTS) SWAP FUTURES (NY-LY - CME)						
Spread Credit Rate	Increase	+1:-1	60%	60%	70%	70%
BRENT CRUDE OIL PENULTIMATE FINANCIAL FUTURES (NY-BB - CME) vs HEATING OIL CALENDAR SWAP FUTURES (NY-MP - CME)						
Spread Credit Rate	Increase	+1:-1	65%	65%	70%	70%
BRENT CRUDE OIL PENULTIMATE FINANCIAL FUTURES (NY-BB - CME) vs HEATING OIL FINANCIAL FUTURES (NY-BH - CME)						
Spread Credit Rate	Increase	+1:-1	60%	60%	70%	70%
BRENT CRUDE OIL PENULTIMATE FINANCIAL FUTURES (NY-BB - CME) vs HEATING OIL LAST DAY FINANCIAL FUTURES (NY-23 - CME)						
Spread Credit Rate	Increase	+1:-1	60%	60%	70%	70%
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%	70%	70%
BRENT CRUDE OIL PENULTIMATE FINANCIAL FUTURES (NY-BB - CME) vs PROPANE NON-LDH MONT BELVIEU (OPIS) SWAP FUTURES (NY-1R - CME)						
Spread Credit Rate	Decrease	+1:-1	45%	45%	35%	35%
BRENT CRUDE OIL PENULTIMATE FINANCIAL FUTURES (NY-BB - CME) vs RBOB GASOLINE FUTURES (NY-RB - CME)						
Spread Credit Rate	Decrease	+1:-1	75%	75%	72%	72%
Spread Credit Rate	Decrease	+1:-1	70%	70%	68%	68%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
CANADIAN HEAVY CRUDE OIL (NET ENERGY) INDEX FUTURES (NY-WCC - CME) vs CRUDE OIL FINANCIAL FUTURES (NY-WS - CME)						
Spread Credit Rate	Decrease	+1:-1	25%	25%	0%	0%
CANADIAN HEAVY CRUDE OIL (NET ENERGY) INDEX FUTURES (NY-WCC - CME) vs LIGHT SWEET CRUDE OIL FUTURES (NY-CL - CME)						
Spread Credit Rate	Decrease	+1:-1	25%	25%	0%	0%
CANADIAN HEAVY CRUDE OIL (NET ENERGY) INDEX FUTURES (NY-WCC - CME) vs WTI CALENDAR SWAP FUTURES (NY-CS - CME)						
Spread Credit Rate	Decrease	+1:-1	25%	25%	0%	0%
CANADIAN LIGHT SWEET OIL (NET ENERGY) INDEX FUTURES (NY-CIL - CME) vs LIGHT SWEET CRUDE OIL FUTURES (NY-CL - CME)						
Spread Credit Rate	Decrease	+1:-1	15%	15%	0%	0%
CHICAGO ETHANOL (PLATTS) SWAP FUTURES (NY-CU - CME) vs CRUDE OIL FINANCIAL FUTURES (NY-WS - CME)						
Spread Credit Rate	Increase	+1:-1	0%	0%	30%	30%
CHICAGO ETHANOL (PLATTS) SWAP FUTURES (NY-CU - CME) vs CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-26 - CME)						
Spread Credit Rate	Increase	+1:-1	0%	0%	30%	30%
CHICAGO ETHANOL (PLATTS) SWAP FUTURES (NY-CU - CME) vs OMAN CRUDE OIL (NY-OQ - CME)						
Spread Credit Rate	Increase	+1:-1	0%	0%	30%	30%
CONWAY NORMAL BUTANE (OPIS) SWAP FUTURES (NY-8M - CME) vs BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME)						
Spread Credit Rate	Decrease	+1:-1	50%	50%	40%	40%
CONWAY NORMAL BUTANE (OPIS) SWAP FUTURES (NY-8M - CME) vs BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME)						
Spread Credit Rate	Decrease	+1:-1	50%	50%	40%	40%
CONWAY NORMAL BUTANE (OPIS) SWAP FUTURES (NY-8M - CME) vs BRENT CRUDE OIL PENULTIMATE FINANCIAL FUTURES (NY-BB - CME)						
Spread Credit Rate	Decrease	+1:-1	50%	50%	40%	40%
CONWAY PROPANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-8K) vs. DME OMAN CRUDE OIL (NY-OQ)						
Spread Credit Rate	Increase	+1:-1	0%	0%	35%	35%
CONWAY PROPANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-8K) vs. DUBAI CRUDE OIL (PLATTS) CALENDAR SWAP FUTURES (NY-DC)						
Spread Credit Rate	Increase	+1:-1	0%	0%	35%	35%
CRUDE OIL FINANCIAL FUTURES (NY-WS - CME) vs 1% FUEL OIL (PLATTS) CARGOES CIF MED SWAP FUTURES (NY-1W - CME)						
Spread Credit Rate	Decrease	+19:-3	75%	75%	60%	60%
CRUDE OIL FINANCIAL FUTURES (NY-WS - CME) vs ARGUS PROPANE (SAUDI ARAMCO) SWAP FUTURES (NY-9N - CME)						
Spread Credit Rate	Decrease	+12:-1	45%	45%	35%	35%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
CRUDE OIL FINANCIAL FUTURES (NY-WS - CME) vs ARGUS PROPANE FAR EAST INDEX SWAP FUTURES (NY-7E - CME)						
Spread Credit Rate	Increase	+12:-1	45%	45%	65%	65%
CRUDE OIL FINANCIAL FUTURES (NY-WS - CME) vs CONWAY PROPANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-8K - CME)						
Spread Credit Rate	Decrease	+1:-2	60%	60%	30%	30%
CRUDE OIL FINANCIAL FUTURES (NY-WS - CME) vs ETHANOL (EH - CME)						
Spread Credit Rate	Increase	+1:-1	0%	0%	30%	30%
CRUDE OIL FINANCIAL FUTURES (NY-WS - CME) vs GULF COAST SOUR CRUDE OIL FUTURES (NY-MB - CME)						
Spread Credit Rate	Decrease	+1:-1	82%	82%	55%	55%
CRUDE OIL FINANCIAL FUTURES (NY-WS - CME) vs LOOP GULF COAST SOUR CRUDE OIL FUTURES (NY-MB - CME)						
Spread Credit Rate	Decrease	+1:-1	82%	82%	55%	55%
CRUDE OIL FINANCIAL FUTURES (NY-WS - CME) vs MONT BELVIEU ISO-BUTANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-8I - CME)						
Spread Credit Rate	Decrease	+1:-1	55%	55%	45%	45%
CRUDE OIL FINANCIAL FUTURES (NY-WS - CME) vs MONT BELVIEU PHYSICAL NON-LDH PROPANE (OPIS) FUTURES (NY-3P - CME)						
Spread Credit Rate	Decrease	+1:-1	45%	45%	30%	30%
CRUDE OIL FINANCIAL FUTURES (NY-WS - CME) vs NEW YORK HARBOR NO. 2 HEATING OIL FUTURES (NY-HO - CME)						
Spread Credit Rate	Increase	+1:-1	60%	60%	70%	70%
CRUDE OIL FINANCIAL FUTURES (NY-WS - CME) vs NY ETHANOL (PLATTS) SWAP FUTURES (NY-EZ - CME)						
Spread Credit Rate	Increase	+1:-1	0%	0%	30%	30%
CRUDE OIL FINANCIAL FUTURES (NY-WS - CME) vs RBOB GASOLINE CALENDAR SWAP FUTURES (NY-RL - CME)						
Spread Credit Rate	Decrease	+1:-1	72%	72%	70%	70%
CRUDE OIL FINANCIAL FUTURES (NY-WS - CME) vs RBOB GASOLINE FINANCIAL FUTURES (NY-RT - CME)						
Spread Credit Rate	Decrease	+1:-1	72%	72%	70%	70%
CRUDE OIL FINANCIAL FUTURES (NY-WS - CME) vs RBOB GASOLINE FUTURES (NY-RB - CME)						
Spread Credit Rate	Decrease	+1:-1	70%	70%	68%	68%
Spread Credit Rate	Decrease	+1:-1	72%	72%	70%	70%
CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-26 - CME) vs 1% FUEL OIL (PLATTS) CARGOES CIF MED SWAP FUTURES (NY-1W - CME)						
Spread Credit Rate	Decrease	+19:-3	75%	75%	60%	60%
CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-26 - CME) vs ARGUS PROPANE (SAUDI ARAMCO) SWAP FUTURES (NY-9N - CME)						
Spread Credit Rate	Decrease	+12:-1	45%	45%	35%	35%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-26 - CME) vs ARGUS PROPANE FAR EAST INDEX SWAP FUTURES (NY-7E - CME)						
Spread Credit Rate	Increase	+12:-1	45%	45%	65%	65%
CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-26 - CME) vs ETHANOL (EH - CME)						
Spread Credit Rate	Increase	+1:-1	0%	0%	30%	30%
CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-26 - CME) vs LOOP GULF COAST SOUR CRUDE OIL FUTURES (NY-MB - CME)						
Spread Credit Rate	Decrease	+1:-1	82%	82%	55%	55%
CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-26 - CME) vs MONT BELVIEU PHYSICAL NON-LDH PROPANE (OPIS) FUTURES (NY-3P - CME)						
Spread Credit Rate	Decrease	+1:-1	45%	45%	30%	30%
CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-26 - CME) vs NY ETHANOL (PLATTS) SWAP FUTURES (NY-EZ - CME)						
Spread Credit Rate	Increase	+1:-1	0%	0%	30%	30%
DATED BRENT (PLATTS) CALENDAR SWAP FUTURES (NY-UB - CME) vs CHICAGO ETHANOL (PLATTS) SWAP FUTURES (NY-CU - CME)						
Spread Credit Rate	Increase	+1:-1	0%	0%	30%	30%
DME OMAN CRUDE OIL SWAP FUTURES (NY-DOO - CME) vs PROPANE NON-LDH MONT BELVIEU (OPIS) SWAP FUTURES (NY-1R - CME)						
Spread Credit Rate	Increase	+1:-1	40%	40%	45%	45%
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	Decrease	+1:-1	80%	80%	70%	70%
DUBAI CRUDE OIL (PLATTS) CALENDAR SWAP FUTURES (NY-DC - CME) vs NY ETHANOL (PLATTS) SWAP FUTURES (NY-EZ - CME)						
Spread Credit Rate	Increase	+1:-1	0%	0%	30%	30%
DUBAI CRUDE OIL CALENDAR SWAP (NY-DC) vs. MONT BELVIEU LDH PROPANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-B0)						
Spread Credit Rate	Increase	+1:-1	30%	30%	45%	45%
EUROPE DATED BRENT SWAP (NY-UB) vs. MONT BELVIEU LDH PROPANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-B0)						
Spread Credit Rate	Decrease	+1:-1	55%	55%	40%	40%
EUROPEAN 1% FUEL OIL (PLATTS) BARGES FOB RDAM CALENDAR SWAP FUTURES (NY-UH - CME) vs DATED BRENT (PLATTS) CALENDAR SWAP FUTURES (NY-UB - CME)						
Spread Credit Rate	Decrease	+3:-19	75%	75%	65%	65%
EUROPEAN 1% FUEL OIL (PLATTS) BARGES FOB RDAM CALENDAR SWAP FUTURES (NY-UH - CME) vs DUBAI CRUDE OIL (PLATTS) CALENDAR SWAP FUTURES (NY-DC - CME)						
Spread Credit Rate	Decrease	+3:-19	85%	85%	65%	65%

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) BARGES FOB RDAM CALENDAR SWAP FUTURES (NY-UH - CME) vs LIGHT SWEET CRUDE OIL FUTURES (NY-CL - CME)						
Spread Credit Rate	Decrease	+5:-33	75%	75%	60%	60%
EUROPEAN 1% FUEL OIL (PLATTS) BARGES FOB RDAM CALENDAR SWAP FUTURES (NY-UH - CME) vs OMAN CRUDE OIL (NY-OQ - CME)						
Spread Credit Rate	Decrease	+2:-15	80%	80%	65%	65%
EUROPEAN 1% FUEL OIL (PLATTS) BARGES FOB RDAM CALENDAR SWAP FUTURES (NY-UH - CME) vs WTI CALENDAR SWAP FUTURES (NY-CS - CME)						
Spread Credit Rate	Decrease	+5:-33	75%	75%	60%	60%
EUROPEAN 1% FUEL OIL (PLATTS) BARGES FOB RDAM CALENDAR SWAP FUTURES (NY-UH - CME) vs WTI CALENDAR SWAP FUTURES (NY-CS - CME).						
Spread Credit Rate	Decrease	+5:-33	75%	75%	60%	60%
EUROPEAN 3.5% FUEL OIL (PLATTS) BARGES FOB RDAM CALENDAR SWAP FUTURES (NY-UV - CME) vs DATED BRENT (PLATTS) CALENDAR SWAP FUTURES (NY-UB - CME)						
Spread Credit Rate	Decrease	+3:-19	85%	85%	75%	75%
EUROPEAN 3.5% FUEL OIL (PLATTS) BARGES FOB RDAM CALENDAR SWAP FUTURES (NY-UV - CME) vs LIGHT SWEET CRUDE OIL FUTURES (NY-CL - CME)						
Spread Credit Rate	Decrease	+5:-33	75%	75%	65%	65%
EUROPEAN PROPANE CIF ARA (ARGUS) SWAP FUTURES (NY-PS - CME) vs DME OMAN CRUDE OIL SWAP FUTURES (NY-DOO - CME)						
Spread Credit Rate	Increase	+2:-15	70%	70%	75%	75%
EUROPEAN PROPANE CIF ARA (ARGUS) SWAP FUTURES (NY-PS - CME) vs DUBAI CRUDE OIL (PLATTS) CALENDAR SWAP FUTURES (NY-DC - CME)						
Spread Credit Rate	Increase	+1:-12	50%	50%	75%	75%
EUROPEAN PROPANE CIF ARA (ARGUS) SWAP FUTURES (NY-PS - CME) vs OMAN CRUDE OIL (NY-OQ - CME)						
Spread Credit Rate	Increase	+2:-15	70%	70%	75%	75%
GASOLINE EURO-BOB OXY (ARGUS) NWE BARGES SWAP FUTURES (NY-7H - CME) vs DME OMAN CRUDE OIL SWAP FUTURES (NY-DOO - CME)						
Spread Credit Rate	Decrease	+2:-15	80%	80%	75%	75%
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	65%	65%	75%	75%
GASOLINE EURO-BOB OXY (ARGUS) NWE BARGES SWAP FUTURES (NY-7H - CME) vs OMAN CRUDE OIL (NY-OQ - CME)						
Spread Credit Rate	Decrease	+2:-15	80%	80%	70%	70%
GULF COAST SOUR CRUDE OIL FUTURES (NY-MB - CME) vs WTI CALENDAR SWAP FUTURES (NY-CS - CME)						
Spread Credit Rate	Decrease	+1:-1	82%	82%	55%	55%
GULF COAST ULSD (PLATTS) SWAP FUTURES (NY-LY - CME) vs BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - 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						
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	60%	60%	70%	70%
GULF COAST ULSD (PLATTS) SWAP FUTURES (NY-LY - CME) vs BRENT CRUDE OIL PENULTIMATE FINANCIAL FUTURES (NY-BB - CME)						
Spread Credit Rate	Increase	+1:-1	60%	60%	70%	70%
GULF COAST ULSD (PLATTS) SWAP FUTURES (NY-LY - CME) vs CRUDE OIL FINANCIAL FUTURES (NY-WS - CME)						
Spread Credit Rate	Increase	+1:-1	50%	50%	70%	70%
GULF COAST ULSD (PLATTS) SWAP FUTURES (NY-LY - CME) vs CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-26 - CME)						
Spread Credit Rate	Increase	+1:-1	50%	50%	70%	70%
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	60%	60%	70%	70%
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	60%	60%	70%	70%
GULF COAST ULSD (PLATTS) SWAP FUTURES (NY-LY - CME) vs LIGHT SWEET CRUDE OIL FUTURES (NY-CL - CME)						
Spread Credit Rate	Increase	+1:-1	50%	50%	70%	70%
GULF COAST ULSD (PLATTS) SWAP FUTURES (NY-LY - CME) vs WTI CALENDAR SWAP FUTURES (NY-CS - CME)						
Spread Credit Rate	Increase	+1:-1	50%	50%	70%	70%
HEATING OIL LAST DAY FINANCIAL FUTURES (NY-23 - CME) vs CRUDE OIL FINANCIAL FUTURES (NY-WS - CME)						
Spread Credit Rate	Increase	+1:-1	60%	60%	70%	70%
HEATING OIL LAST DAY FINANCIAL FUTURES (NY-23 - CME) vs CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-26 - CME)						
Spread Credit Rate	Increase	+1:-1	60%	60%	70%	70%
HEATING OIL LAST DAY FINANCIAL FUTURES (NY-23 - CME) vs LIGHT SWEET CRUDE OIL FUTURES (NY-CL - CME)						
Spread Credit Rate	Increase	+1:-1	60%	60%	70%	70%
HEATING OIL LAST DAY FINANCIAL FUTURES (NY-23 - CME) vs WTI CALENDAR SWAP FUTURES (NY-CS - CME)						
Spread Credit Rate	Increase	+1:-1	60%	60%	70%	70%
LIGHT SWEET CRUDE OIL FUTURES (NY-CL - CME) vs ARGUS PROPANE (SAUDI ARAMCO) SWAP FUTURES (NY-9N - CME)						
Spread Credit Rate	Decrease	+12:-1	45%	45%	35%	35%
LIGHT SWEET CRUDE OIL FUTURES (NY-CL - CME) vs CHICAGO ETHANOL (PLATTS) SWAP FUTURES (NY-CU - CME)						
Spread Credit Rate	Increase	+1:-1	0%	0%	30%	30%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
LIGHT SWEET CRUDE OIL FUTURES (NY-CL - CME) vs LOOP GULF COAST SOUR CRUDE OIL FUTURES (NY-MB - CME)						
Spread Credit Rate	Decrease	+1:-1	82%	82%	55%	55%
LIGHT SWEET CRUDE OIL FUTURES (NY-CL - CME) vs NY ETHANOL (PLATTS) SWAP FUTURES (NY-EZ - CME)						
Spread Credit Rate	Increase	+1:-1	0%	0%	30%	30%
LIGHT SWEET CRUDE OIL FUTURES (NY-CL - CME) vs RBOB GASOLINE FINANCIAL FUTURES (NY-RT - CME)						
Spread Credit Rate	Decrease	+1:-1	72%	72%	70%	70%
LIGHT SWEET CRUDE OIL FUTURES (NY-CL, CS, WS) vs ARGUS PROPANE FAR EAST INDEX SWAP FUTURES (NY-7E - CME)						
Spread Credit Rate	Increase	+12:-1	45%	45%	65%	65%
LIGHT SWEET CRUDE OIL FUTURES (NY-CL, CS, WS) vs CHICAGO ETHANOL (PLATTS) SWAP FUTURES (NY-CU - CME)						
Spread Credit Rate	Increase	+1:-1	0%	0%	30%	30%
LIGHT SWEET CRUDE OIL FUTURES (NY-CL, CS, WS) vs CONWAY PROPANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-8K - CME)						
Spread Credit Rate	Decrease	+1:-2	60%	60%	30%	30%
LIGHT SWEET CRUDE OIL FUTURES (NY-CL, CS, WS) vs ETHANOL (EH - CME)						
Spread Credit Rate	Increase	+1:-1	0%	0%	30%	30%
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	50%	50%	70%	70%
LIGHT SWEET CRUDE OIL FUTURES (NY-CL, CS, WS) vs MONT BELVIEU ISO-BUTANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-8I - CME)						
Spread Credit Rate	Decrease	+1:-1	55%	55%	45%	45%
LIGHT SWEET CRUDE OIL FUTURES (NY-CL, CS, WS) vs MONT BELVIEU LDH PROPANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-B0 - CME)						
Spread Credit Rate	Decrease	+1:-1	55%	55%	40%	40%
LIGHT SWEET CRUDE OIL FUTURES (NY-CL, CS, WS) vs NY ETHANOL (PLATTS) SWAP FUTURES (NY-EZ - CME)						
Spread Credit Rate	Increase	+1:-1	0%	0%	30%	30%
LIGHT, SWEET CRUDE OIL FUTURES (NYM-CL, CS, WS) vs HEATING OIL FINANCIAL FUTURES (NYM-HO, BH, MP)						
Spread Credit Rate	Increase	+1:-1	60%	60%	70%	70%
LOOP GULF COAST SOUR CRUDE OIL FUTURES (NY-MB - CME) vs WTI CALENDAR SWAP FUTURES (NY-CS - CME)						
Spread Credit Rate	Decrease	+1:-1	82%	82%	55%	55%
MONT BELVIEU ISO-BUTANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-8I - CME) vs BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME)						
Spread Credit Rate	Decrease	+1:-1	50%	50%	40%	40%

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 - CME) vs BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME)						
Spread Credit Rate	Decrease	+1:-1	50%	50%	40%	40%
MONT BELVIEU ISO-BUTANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-8I - CME) vs DATED BRENT (PLATTS) CALENDAR SWAP FUTURES (NY-UB - CME)						
Spread Credit Rate	Decrease	+1:-1	50%	50%	40%	40%
MONT BELVIEU ISO-BUTANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-8I) vs. BRENT FINANCIAL FUTURES (NY-BB)						
Spread Credit Rate	Decrease	+1:-1	50%	50%	40%	40%
Spread Credit Rate	Decrease	+1:-1	50%	50%	40%	40%
MONT BELVIEU ISO-BUTANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-8I) vs. DUBAI CRUDE OIL (PLATTS) CALENDAR SWAP FUTURES (NY-DC)						
Spread Credit Rate	Decrease	+1:-1	55%	55%	25%	25%
MONT BELVIEU LDH PROPANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-B0) vs. BRENT FINANCIAL FUTURES (NY-BB)						
Spread Credit Rate	Decrease	+1:-1	45%	45%	35%	35%
MONT BELVIEU NORMAL BUTANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-D0 - CME) vs LIGHT SWEET CRUDE OIL FUTURES (NY-CL, CS, WS)						
Spread Credit Rate	Decrease	+1:-1	60%	60%	40%	40%
MONT BELVIEU NORMAL BUTANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-D0 - CME) vs WTI CALENDAR SWAP FUTURES (NY-CS - CME)						
Spread Credit Rate	Decrease	+1:-1	60%	60%	40%	40%
MONT BELVIEU NORMAL BUTANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-D0 - CME) vs WTI CALENDAR SWAP FUTURES (NY-CS - CME).						
Spread Credit Rate	Decrease	+1:-1	60%	60%	40%	40%
MONT BELVIEU NORMAL BUTANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-D0) vs. BRENT FINANCIAL FUTURES (NY-BB)						
Spread Credit Rate	Decrease	+1:-1	50%	50%	40%	40%
MONT BELVIEU NORMAL BUTANE LDH (OPIS) SWAP FUTURES (NY-MNB) vs. DATED BRENT (PLATTS) CALENDAR SWAP FUTURES (NY-UB)						
Spread Credit Rate	Increase	+1:-1	30%	30%	50%	50%
MONT BELVIEU NORMAL BUTANE LDH (OPIS) SWAP FUTURES (NY-MNB) vs. DUBAI CRUDE OIL (PLATTS) CALENDAR SWAP FUTURES (NY-DC)						
Spread Credit Rate	Decrease	+1:-1	55%	55%	30%	30%
MONT BELVIEU PHYSICAL NON-LDH PROPANE (OPIS) FUTURES (NY-3P - CME) vs WTI CALENDAR SWAP FUTURES (NY-CS - CME)						
Spread Credit Rate	Decrease	+1:-1	45%	45%	30%	30%
NEW YORK HARBOR RESIDUAL FUEL 1.0% (PLATTS) SWAP FUTURES (NY-MM - CME) vs BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME)						
Spread Credit Rate	Decrease	+1:-1	80%	80%	70%	70%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
NEW YORK HARBOR RESIDUAL FUEL 1.0% (PLATTS) SWAP FUTURES (NY-MM - CME) vs BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME)						
Spread Credit Rate	Decrease	+1:-1	80%	80%	70%	70%
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%	70%	70%
NY ETHANOL (PLATTS) SWAP FUTURES (NY-EZ - CME) vs DATED BRENT (PLATTS) CALENDAR SWAP FUTURES (NY-UB - CME)						
Spread Credit Rate	Increase	+1:-1	0%	0%	30%	30%
NY ETHANOL (PLATTS) SWAP FUTURES (NY-EZ - CME) vs DUBAI CRUDE OIL (PLATTS) CALENDAR SWAP FUTURES (NY-DC - CME)						
Spread Credit Rate	Increase	+1:-1	0%	0%	30%	30%
NY HARBOR RBOB GASOLINE (NYM-RB, RL, RT) vs LIGHT, SWEET CRUDE OIL FUTURES (NYM-CL, CS, WS)						
Spread Credit Rate	Decrease	+1:-1	72%	72%	70%	70%
Spread Credit Rate	Decrease	+1:-1	70%	70%	68%	68%
OMAN CRUDE OIL (NY-OQ - CME) vs PROPANE NON-LDH MONT BELVIEU (OPIS) SWAP FUTURES (NY-1R - CME)						
Spread Credit Rate	Increase	+1:-1	40%	40%	45%	45%
PALLADIUM FUTURES (NY-PA - CME) vs BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME)						
Spread Credit Rate	Increase	+1:-1	0%	0%	45%	45%
PROPANE NON-LDH MONT BELVIEU (OPIS) SWAP FUTURES (NY-1R - CME) vs DATED BRENT (PLATTS) CALENDAR SWAP FUTURES (NY-UB - CME)						
Spread Credit Rate	Decrease	+1:-1	45%	45%	35%	35%
PROPANE NON-LDH MONT BELVIEU (OPIS) SWAP FUTURES (NY-1R - CME) vs DUBAI CRUDE OIL (PLATTS) CALENDAR SWAP FUTURES (NY-DC - CME)						
Spread Credit Rate	Increase	+1:-1	30%	30%	45%	45%
RBOB GASOLINE CALENDAR SWAP FUTURES (NY-RL - CME) vs BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME)						
Spread Credit Rate	Decrease	+1:-1	70%	70%	68%	68%
Spread Credit Rate	Decrease	+1:-1	75%	75%	72%	72%
RBOB GASOLINE CALENDAR SWAP FUTURES (NY-RL - CME) vs BRENT CRUDE OIL PENULTIMATE FINANCIAL FUTURES (NY-BB - CME)						
Spread Credit Rate	Decrease	+1:-1	70%	70%	68%	68%
Spread Credit Rate	Decrease	+1:-1	75%	75%	72%	72%
RBOB GASOLINE CALENDAR SWAP FUTURES (NY-RL - CME) vs LIGHT SWEET CRUDE OIL FUTURES (NY-CL - CME)						
Spread Credit Rate	Decrease	+1:-1	72%	72%	70%	70%
RBOB GASOLINE FUTURES (NY-RB - CME) vs WTI CALENDAR SWAP FUTURES (NY-CS - CME)						
Spread Credit Rate	Decrease	+1:-1	70%	70%	68%	68%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
RBOB GASOLINE LAST DAY FINANCIAL FUTURES (NY-27 - CME) vs BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME)						
Spread Credit Rate	Decrease	+1:-1	70%	70%	68%	68%
Spread Credit Rate	Decrease	+1:-1	75%	75%	72%	72%
RBOB GASOLINE LAST DAY FINANCIAL FUTURES (NY-27 - CME) vs BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME)						
Spread Credit Rate	Decrease	+1:-1	75%	75%	72%	72%
Spread Credit Rate	Decrease	+1:-1	70%	70%	68%	68%
RBOB GASOLINE LAST DAY FINANCIAL FUTURES (NY-27 - CME) vs BRENT CRUDE OIL PENULTIMATE FINANCIAL FUTURES (NY-BB - CME)						
Spread Credit Rate	Decrease	+1:-1	75%	75%	72%	72%
Spread Credit Rate	Decrease	+1:-1	70%	70%	68%	68%
WTI CALENDAR SWAP FUTURES (NY-CS - CME) vs ARGUS PROPANE (SAUDI ARAMCO) SWAP FUTURES (NY-9N - CME)						
Spread Credit Rate	Decrease	+12:-1	45%	45%	35%	35%
WTI CALENDAR SWAP FUTURES (NY-CS - CME) vs ARGUS PROPANE FAR EAST INDEX SWAP FUTURES (NY-7E - CME)						
Spread Credit Rate	Increase	+12:-1	45%	45%	65%	65%
WTI CALENDAR SWAP FUTURES (NY-CS - CME) vs CHICAGO ETHANOL (PLATTS) SWAP FUTURES (NY-CU - CME)						
Spread Credit Rate	Increase	+1:-1	0%	0%	30%	30%
WTI CALENDAR SWAP FUTURES (NY-CS - CME) vs CHICAGO ETHANOL (PLATTS) SWAP FUTURES (NY-CU - CME).						
Spread Credit Rate	Increase	+1:-1	0%	0%	30%	30%
WTI CALENDAR SWAP FUTURES (NY-CS - CME) vs CONWAY PROPANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-8K - CME)						
Spread Credit Rate	Decrease	+1:-2	60%	60%	30%	30%
WTI CALENDAR SWAP FUTURES (NY-CS - CME) vs CONWAY PROPANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-8K - CME).						
Spread Credit Rate	Decrease	+1:-2	60%	60%	30%	30%
WTI CALENDAR SWAP FUTURES (NY-CS - CME) vs ETHANOL (EH - CME)						
Spread Credit Rate	Increase	+1:-1	0%	0%	30%	30%
WTI CALENDAR SWAP FUTURES (NY-CS - CME) vs GULF COAST ULSD (PLATTS) SWAP FUTURES (NY-LY - CME)						
Spread Credit Rate	Increase	+1:-1	50%	50%	70%	70%
WTI CALENDAR SWAP FUTURES (NY-CS - CME) vs GULF COAST ULSD (PLATTS) SWAP FUTURES (NY-LY - CME).						
Spread Credit Rate	Increase	+1:-1	50%	50%	70%	70%
WTI CALENDAR SWAP FUTURES (NY-CS - CME) vs HEATING OIL CALENDAR SWAP FUTURES (NY-MP - 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						
WTI CALENDAR SWAP FUTURES (NY-CS - CME) vs MONT BELVIEU ISO-BUTANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-8I - CME)						
Spread Credit Rate	Decrease	+1:-1	55%	55%	45%	45%
WTI CALENDAR SWAP FUTURES (NY-CS - CME) vs MONT BELVIEU ISO-BUTANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-8I - CME).						
Spread Credit Rate	Decrease	+1:-1	55%	55%	45%	45%
WTI CALENDAR SWAP FUTURES (NY-CS - CME) vs MONT BELVIEU LDH PROPANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-B0 - CME)						
Spread Credit Rate	Decrease	+1:-1	55%	55%	40%	40%
WTI CALENDAR SWAP FUTURES (NY-CS - CME) vs NEW YORK HARBOR NO. 2 HEATING OIL FUTURES (NY-HO - CME)						
Spread Credit Rate	Increase	+1:-1	60%	60%	70%	70%
WTI CALENDAR SWAP FUTURES (NY-CS - CME) vs NY ETHANOL (PLATTS) SWAP FUTURES (NY-EZ - CME)						
Spread Credit Rate	Increase	+1:-1	0%	0%	30%	30%
WTI CALENDAR SWAP FUTURES (NY-CS - CME) vs NY ETHANOL (PLATTS) SWAP FUTURES (NY-EZ - CME).						
Spread Credit Rate	Increase	+1:-1	0%	0%	30%	30%
CRUDE OIL SPREADS - Inter-commodity Spread Rates						
CANADIAN HEAVY CRUDE OIL (NET ENERGY) INDEX FUTURES (NY-WCC - CME) vs CRUDE OIL FINANCIAL FUTURES (NY-WS - CME)						
Spread Credit Rate	Decrease	+1:-1	25%	25%	0%	0%
CANADIAN HEAVY CRUDE OIL (NET ENERGY) INDEX FUTURES (NY-WCC - CME) vs LIGHT SWEET CRUDE OIL FUTURES (NY-CL - CME)						
Spread Credit Rate	Decrease	+1:-1	25%	25%	0%	0%
CANADIAN HEAVY CRUDE OIL (NET ENERGY) INDEX FUTURES (NY-WCC - CME) vs WTI CALENDAR SWAP FUTURES (NY-CS - CME)						
Spread Credit Rate	Decrease	+1:-1	25%	25%	0%	0%
CANADIAN LIGHT SWEET OIL (NET ENERGY) INDEX FUTURES (NY-CIL - CME) vs LIGHT SWEET CRUDE OIL FUTURES (NY-CL - CME)						
Spread Credit Rate	Decrease	+1:-1	15%	15%	0%	0%
EQUITY INDEX - Inter-commodity Spread Rates						
S&P 500 (SP - CME) vs INRUSD FUTURES (SIR - CME)						
Spread Credit Rate	New	+1:-4			25%	25%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance

Inter-commodity Spread Rates

ERIS - Inter-commodity Spread Rates

12 YR INTEREST RATE SWAP FUTURE ERIS (ZD9212 - CME) vs 10 YEAR INTEREST RATE SWAP DELIVERABLE FUTURE (N1U - CME)

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Spread Credit Rate	New	+1:+1			80%	80%

12 YR INTEREST RATE SWAP FUTURE ERIS (ZD9212 - CME) vs 20-YEAR USD DELIVERABLE INTEREST RATE SWAP FUTURES (E1U - CME)

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Spread Credit Rate	New	+2:+1			75%	75%

12 YR INTEREST RATE SWAP FUTURE ERIS (ZD9212 - CME) vs 30 YEAR INTEREST RATE SWAP DELIVERABLE FUTURE (B1U - CME)

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Spread Credit Rate	New	+5:+3			60%	60%

12 YR INTEREST RATE SWAP FUTURE ERIS (ZD9212 - CME) vs 5 YEAR INTEREST RATE SWAP DELIVERABLE FUTURE (F1U - CME)

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Spread Credit Rate	New	+2:+3			60%	60%

12 YR INTEREST RATE SWAP FUTURE ERIS (ZD9212 - CME) vs 5-YEAR T-NOTE (25 - CME)

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Spread Credit Rate	New	+2:-3			70%	70%

12 YR INTEREST RATE SWAP FUTURE ERIS (ZD9212 - CME) vs 7-YEAR USD DELIVERABLE INTEREST RATE SWAP FUTURES (S1U - CME)

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Spread Credit Rate	New	+2:+3			75%	75%

12 YR INTEREST RATE SWAP FUTURE ERIS (ZD9212 - CME) vs U.S. TREASURY BOND (17 - CME)

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Spread Credit Rate	New	+5:-3			70%	70%

12 YR INTEREST RATE SWAP FUTURE ERIS (ZD9212 - CME) vs ULTRA 10-YEAR U.S. TREASURY NOTE FUTURES (TN - CME)

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Spread Credit Rate	New	+1:-1			80%	80%

12 YR INTEREST RATE SWAP FUTURE ERIS (ZD9212 - CME) vs ULTRA LONG TREASURY BOND (UBE - CME)

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Spread Credit Rate	New	+5:-2			60%	60%

15 YR INTEREST RATE SWAP FUTURE ERIS (ZD9215 - CME) vs 10 YEAR INTEREST RATE SWAP DELIVERABLE FUTURE (N1U - CME)

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Spread Credit Rate	New	+2:+3			70%	70%

15 YR INTEREST RATE SWAP FUTURE ERIS (ZD9215 - CME) vs 10-YEAR T-NOTE (21 - CME)

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Spread Credit Rate	New	+2:-3			80%	80%

15 YR INTEREST RATE SWAP FUTURE ERIS (ZD9215 - CME) vs 20-YEAR USD DELIVERABLE INTEREST RATE SWAP FUTURES (E1U - CME)

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Spread Credit Rate	New	+1:+1			75%	75%

15 YR INTEREST RATE SWAP FUTURE ERIS (ZD9215 - CME) vs 30 YEAR INTEREST RATE SWAP DELIVERABLE FUTURE (B1U - CME)

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Spread Credit Rate	New	+2:+1			75%	75%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
15 YR INTEREST RATE SWAP FUTURE ERIS (ZD9215 - CME) vs 5 YEAR INTEREST RATE SWAP DELIVERABLE FUTURE (F1U - CME)						
Spread Credit Rate	New	+1:+3			50%	50%
15 YR INTEREST RATE SWAP FUTURE ERIS (ZD9215 - CME) vs 5-YEAR T-NOTE (25 - CME)						
Spread Credit Rate	New	+1:-3			70%	70%
15 YR INTEREST RATE SWAP FUTURE ERIS (ZD9215 - CME) vs 7-YEAR USD DELIVERABLE INTEREST RATE SWAP FUTURES (S1U - CME)						
Spread Credit Rate	New	+1:+2			65%	65%
15 YR INTEREST RATE SWAP FUTURE ERIS (ZD9215 - CME) vs U.S. TREASURY BOND (17 - CME)						
Spread Credit Rate	New	+5:-3			70%	70%
15 YR INTEREST RATE SWAP FUTURE ERIS (ZD9215 - CME) vs ULTRA 10-YEAR U.S. TREASURY NOTE FUTURES (TN - CME)						
Spread Credit Rate	New	+1:-1			80%	80%
15 YR INTEREST RATE SWAP FUTURE ERIS (ZD9215 - CME) vs ULTRA LONG TREASURY BOND (UBE - CME)						
Spread Credit Rate	New	+5:-2			60%	60%
3 YR INTEREST RATE SWAP FUTURE ERIS (ZB9203 - CME) vs 10-YEAR T-NOTE (21 - CME)						
Spread Credit Rate	New	+4:-1			50%	50%
3 YR INTEREST RATE SWAP FUTURE ERIS (ZB9203 - CME) vs 5 YEAR INTEREST RATE SWAP DELIVERABLE FUTURE (F1U - CME)						
Spread Credit Rate	New	+6:+5			50%	50%
3 YR INTEREST RATE SWAP FUTURE ERIS (ZB9203 - CME) vs 5-YEAR T-NOTE (25 - CME)						
Spread Credit Rate	New	+6:-5			60%	60%
3 YR INTEREST RATE SWAP FUTURE ERIS (ZB9203 - CME) vs 5YR INTEREST RATE SWAP FUTURE ERIS (ZB9105 - CME)						
Spread Credit Rate	New	+5:-2			80%	80%
3 YR INTEREST RATE SWAP FUTURE ERIS (ZB9203 - CME) vs EURODOLLAR (ED - CME)						
Spread Credit Rate	New	+7:-10			20%	20%
Spread Credit Rate	New	+7:-10			50%	50%
3 YR INTEREST RATE SWAP FUTURE ERIS (ZB9203 - CME) vs ULTRA 10-YEAR U.S. TREASURY NOTE FUTURES (TN - CME)						
Spread Credit Rate	New	+4:-1			50%	50%
4YR INTEREST RATE SWAP FUTURE ERIS (ZB9204 - CME) vs 10-YEAR T-NOTE (21 - CME)						
Spread Credit Rate	New	+3:-2			60%	60%
4YR INTEREST RATE SWAP FUTURE ERIS (ZB9204 - CME) vs 2-YEAR T-NOTE (26 - CME)						
Spread Credit Rate	New	+5:-6			70%	70%
4YR INTEREST RATE SWAP FUTURE ERIS (ZB9204 - CME) vs 5-YEAR T-NOTE (25 - CME)						
Spread Credit Rate	New	+1:-1			70%	70%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
4YR INTEREST RATE SWAP FUTURE ERIS (ZB9204 - CME) vs EURODOLLAR (ED - CME)						
Spread Credit Rate	New	+3:-5			50%	50%
Spread Credit Rate	New	+3:-5			75%	75%
4YR INTEREST RATE SWAP FUTURE ERIS (ZB9204 - CME) vs ULTRA 10-YEAR U.S. TREASURY NOTE FUTURES (TN - CME)						
Spread Credit Rate	New	+3:-2			60%	60%
Spread Credit Rate	New	+2:-1			50%	50%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance

Inter-commodity Spread Rates

ERIS - Inter-commodity Spread Rates

20YR INTEREST RATE SWAP FUTURE ERIS (ZD9220 - CME) vs 10 YEAR INTEREST RATE SWAP DELIVERABLE FUTURE (N1U - CME)

Spread Credit Rate	New	+1:+4			60%	60%

20YR INTEREST RATE SWAP FUTURE ERIS (ZD9220 - CME) vs 10-YEAR T-NOTE (21 - CME)

Spread Credit Rate	New	+1:-2			70%	70%

20YR INTEREST RATE SWAP FUTURE ERIS (ZD9220 - CME) vs 20-YEAR USD DELIVERABLE INTEREST RATE SWAP FUTURES (E1U - CME)

Spread Credit Rate	New	+1:+1			90%	90%

20YR INTEREST RATE SWAP FUTURE ERIS (ZD9220 - CME) vs 30 YEAR INTEREST RATE SWAP DELIVERABLE FUTURE (B1U - CME)

Spread Credit Rate	New	+3:+2			75%	75%

20YR INTEREST RATE SWAP FUTURE ERIS (ZD9220 - CME) vs 5 YEAR INTEREST RATE SWAP DELIVERABLE FUTURE (F1U - CME)

Spread Credit Rate	New	+1:+4			50%	50%

20YR INTEREST RATE SWAP FUTURE ERIS (ZD9220 - CME) vs 5-YEAR T-NOTE (25 - CME)

Spread Credit Rate	New	+1:-2			50%	50%

20YR INTEREST RATE SWAP FUTURE ERIS (ZD9220 - CME) vs 7-YEAR USD DELIVERABLE INTEREST RATE SWAP FUTURES (S1U - CME)

Spread Credit Rate	New	+1:+3			55%	55%

20YR INTEREST RATE SWAP FUTURE ERIS (ZD9220 - CME) vs U.S. TREASURY BOND (17 - CME)

Spread Credit Rate	New	+3:-2			65%	65%

20YR INTEREST RATE SWAP FUTURE ERIS (ZD9220 - CME) vs ULTRA 10-YEAR U.S. TREASURY NOTE FUTURES (TN - CME)

Spread Credit Rate	New	+1:-2			70%	70%

20YR INTEREST RATE SWAP FUTURE ERIS (ZD9220 - CME) vs ULTRA LONG TREASURY BOND (UBE - CME)

Spread Credit Rate	New	+3:-2			70%	70%

3 YR INTEREST RATE SWAP FUTURE ERIS (ZB9203 - CME) vs 5YR INTEREST RATE SWAP FUTURE ERIS (ZB9105 - CME)

Spread Credit Rate	New	+5:-2			80%	80%

ULTRA 10-YEAR U.S. TREASURY NOTE FUTURES (TN - CME) vs 10YR INTEREST RATE SWAP FUTURE ERIS (ZC9110 - CME)

Spread Credit Rate	New	+1:-1			80%	80%

ULTRA 10-YEAR U.S. TREASURY NOTE FUTURES (TN - CME) vs 30YR INTEREST RATE SWAP FUTURE ERIS (ZD9130 - CME)

Spread Credit Rate	New	+3:-1			55%	55%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
ULTRA 10-YEAR U.S. TREASURY NOTE FUTURES (TN - CME) vs 5YR INTEREST RATE SWAP FUTURE ERIS (ZB9105 - CME)						
Spread Credit Rate	New	+1:-2			65%	65%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
		ETHANOL - Inter-commodity Spread Rates				
CHICAGO ETHANOL (PLATTS) SWAP FUTURES (NY-CU - CME) vs CRUDE OIL FINANCIAL FUTURES (NY-WS - CME)						
Spread Credit Rate	Increase	+1:-1	0%	0%	30%	30%
CHICAGO ETHANOL (PLATTS) SWAP FUTURES (NY-CU - CME) vs CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-26 - CME)						
Spread Credit Rate	Increase	+1:-1	0%	0%	30%	30%
CHICAGO ETHANOL (PLATTS) SWAP FUTURES (NY-CU - CME) vs OMAN CRUDE OIL (NY-OQ - CME)						
Spread Credit Rate	Increase	+1:-1	0%	0%	30%	30%
CRUDE OIL FINANCIAL FUTURES (NY-WS - CME) vs ETHANOL (EH - CME)						
Spread Credit Rate	Increase	+1:-1	0%	0%	30%	30%
CRUDE OIL FINANCIAL FUTURES (NY-WS - CME) vs NY ETHANOL (PLATTS) SWAP FUTURES (NY-EZ - CME)						
Spread Credit Rate	Increase	+1:-1	0%	0%	30%	30%
CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-26 - CME) vs ETHANOL (EH - CME)						
Spread Credit Rate	Increase	+1:-1	0%	0%	30%	30%
CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-26 - CME) vs NY ETHANOL (PLATTS) SWAP FUTURES (NY-EZ - CME)						
Spread Credit Rate	Increase	+1:-1	0%	0%	30%	30%
DATED BRENT (PLATTS) CALENDAR SWAP FUTURES (NY-UB - CME) vs CHICAGO ETHANOL (PLATTS) SWAP FUTURES (NY-CU - CME)						
Spread Credit Rate	Increase	+1:-1	0%	0%	30%	30%
DUBAI CRUDE OIL (PLATTS) CALENDAR SWAP FUTURES (NY-DC - CME) vs NY ETHANOL (PLATTS) SWAP FUTURES (NY-EZ - CME)						
Spread Credit Rate	Increase	+1:-1	0%	0%	30%	30%
LIGHT SWEET CRUDE OIL FUTURES (NY-CL - CME) vs CHICAGO ETHANOL (PLATTS) SWAP FUTURES (NY-CU - CME)						
Spread Credit Rate	Increase	+1:-1	0%	0%	30%	30%
LIGHT SWEET CRUDE OIL FUTURES (NY-CL - CME) vs NY ETHANOL (PLATTS) SWAP FUTURES (NY-EZ - CME)						
Spread Credit Rate	Increase	+1:-1	0%	0%	30%	30%
LIGHT SWEET CRUDE OIL FUTURES (NY-CL, CS, WS) vs CHICAGO ETHANOL (PLATTS) SWAP FUTURES (NY-CU - CME)						
Spread Credit Rate	Increase	+1:-1	0%	0%	30%	30%
LIGHT SWEET CRUDE OIL FUTURES (NY-CL, CS, WS) vs ETHANOL (EH - CME)						
Spread Credit Rate	Increase	+1:-1	0%	0%	30%	30%
LIGHT SWEET CRUDE OIL FUTURES (NY-CL, CS, WS) vs NY ETHANOL (PLATTS) SWAP FUTURES (NY-EZ - CME)						
Spread Credit Rate	Increase	+1:-1	0%	0%	30%	30%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
NY ETHANOL (PLATTS) SWAP FUTURES (NY-EZ - CME) vs DATED BRENT (PLATTS) CALENDAR SWAP FUTURES (NY-UB - CME)						
Spread Credit Rate	Increase	+1:-1	0%	0%	30%	30%
NY ETHANOL (PLATTS) SWAP FUTURES (NY-EZ - CME) vs DUBAI CRUDE OIL (PLATTS) CALENDAR SWAP FUTURES (NY-DC - CME)						
Spread Credit Rate	Increase	+1:-1	0%	0%	30%	30%
WTI CALENDAR SWAP FUTURES (NY-CS - CME) vs CHICAGO ETHANOL (PLATTS) SWAP FUTURES (NY-CU - CME)						
Spread Credit Rate	Increase	+1:-1	0%	0%	30%	30%
WTI CALENDAR SWAP FUTURES (NY-CS - CME) vs CHICAGO ETHANOL (PLATTS) SWAP FUTURES (NY-CU - CME).						
Spread Credit Rate	Increase	+1:-1	0%	0%	30%	30%
WTI CALENDAR SWAP FUTURES (NY-CS - CME) vs ETHANOL (EH - CME)						
Spread Credit Rate	Increase	+1:-1	0%	0%	30%	30%
WTI CALENDAR SWAP FUTURES (NY-CS - CME) vs NY ETHANOL (PLATTS) SWAP FUTURES (NY-EZ - CME)						
Spread Credit Rate	Increase	+1:-1	0%	0%	30%	30%
WTI CALENDAR SWAP FUTURES (NY-CS - CME) vs NY ETHANOL (PLATTS) SWAP FUTURES (NY-EZ - CME).						
Spread Credit Rate	Increase	+1:-1	0%	0%	30%	30%
FX - Inter-commodity Spread Rates						
INRUSD FUTURES (SIR - CME) vs AUSTRALIAN DOLLAR (AD - CME)						
Spread Credit Rate	New	+1:-1			35%	35%
S&P 500 (SP - CME) vs INRUSD FUTURES (SIR - CME)						
Spread Credit Rate	New	+1:-4			25%	25%

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance

Inter-commodity Spread Rates

ERIS / INTEREST RATES - Inter-commodity Spread Rates

12 YR INTEREST RATE SWAP FUTURE ERIS (ZD9212 - CME) vs 10 YEAR INTEREST RATE SWAP DELIVERABLE FUTURE (N1U - CME)

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Spread Credit Rate	New	+1:+1			80%	80%

12 YR INTEREST RATE SWAP FUTURE ERIS (ZD9212 - CME) vs 20-YEAR USD DELIVERABLE INTEREST RATE SWAP FUTURES (E1U - CME)

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Spread Credit Rate	New	+2:+1			75%	75%

12 YR INTEREST RATE SWAP FUTURE ERIS (ZD9212 - CME) vs 30 YEAR INTEREST RATE SWAP DELIVERABLE FUTURE (B1U - CME)

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Spread Credit Rate	New	+5:+3			60%	60%

12 YR INTEREST RATE SWAP FUTURE ERIS (ZD9212 - CME) vs 5 YEAR INTEREST RATE SWAP DELIVERABLE FUTURE (F1U - CME)

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Spread Credit Rate	New	+2:+3			60%	60%

12 YR INTEREST RATE SWAP FUTURE ERIS (ZD9212 - CME) vs 5-YEAR T-NOTE (25 - CME)

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Spread Credit Rate	New	+2:-3			70%	70%

12 YR INTEREST RATE SWAP FUTURE ERIS (ZD9212 - CME) vs 7-YEAR USD DELIVERABLE INTEREST RATE SWAP FUTURES (S1U - CME)

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Spread Credit Rate	New	+2:+3			75%	75%

12 YR INTEREST RATE SWAP FUTURE ERIS (ZD9212 - CME) vs U.S. TREASURY BOND (17 - CME)

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Spread Credit Rate	New	+5:-3			70%	70%

12 YR INTEREST RATE SWAP FUTURE ERIS (ZD9212 - CME) vs ULTRA 10-YEAR U.S. TREASURY NOTE FUTURES (TN - CME)

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Spread Credit Rate	New	+1:-1			80%	80%

12 YR INTEREST RATE SWAP FUTURE ERIS (ZD9212 - CME) vs ULTRA LONG TREASURY BOND (UBE - CME)

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Spread Credit Rate	New	+5:-2			60%	60%

15 YR INTEREST RATE SWAP FUTURE ERIS (ZD9215 - CME) vs 10 YEAR INTEREST RATE SWAP DELIVERABLE FUTURE (N1U - CME)

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Spread Credit Rate	New	+2:+3			70%	70%

15 YR INTEREST RATE SWAP FUTURE ERIS (ZD9215 - CME) vs 10-YEAR T-NOTE (21 - CME)

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Spread Credit Rate	New	+2:-3			80%	80%

15 YR INTEREST RATE SWAP FUTURE ERIS (ZD9215 - CME) vs 20-YEAR USD DELIVERABLE INTEREST RATE SWAP FUTURES (E1U - CME)

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Spread Credit Rate	New	+1:+1			75%	75%

15 YR INTEREST RATE SWAP FUTURE ERIS (ZD9215 - CME) vs 30 YEAR INTEREST RATE SWAP DELIVERABLE FUTURE (B1U - CME)

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Spread Credit Rate	New	+2:+1			75%	75%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
15 YR INTEREST RATE SWAP FUTURE ERIS (ZD9215 - CME) vs 5 YEAR INTEREST RATE SWAP DELIVERABLE FUTURE (F1U - CME)						
Spread Credit Rate	New	+1:+3			50%	50%
15 YR INTEREST RATE SWAP FUTURE ERIS (ZD9215 - CME) vs 5-YEAR T-NOTE (25 - CME)						
Spread Credit Rate	New	+1:-3			70%	70%
15 YR INTEREST RATE SWAP FUTURE ERIS (ZD9215 - CME) vs 7-YEAR USD DELIVERABLE INTEREST RATE SWAP FUTURES (S1U - CME)						
Spread Credit Rate	New	+1:+2			65%	65%
15 YR INTEREST RATE SWAP FUTURE ERIS (ZD9215 - CME) vs U.S. TREASURY BOND (17 - CME)						
Spread Credit Rate	New	+5:-3			70%	70%
15 YR INTEREST RATE SWAP FUTURE ERIS (ZD9215 - CME) vs ULTRA 10-YEAR U.S. TREASURY NOTE FUTURES (TN - CME)						
Spread Credit Rate	New	+1:-1			80%	80%
15 YR INTEREST RATE SWAP FUTURE ERIS (ZD9215 - CME) vs ULTRA LONG TREASURY BOND (UBE - CME)						
Spread Credit Rate	New	+5:-2			60%	60%
20YR INTEREST RATE SWAP FUTURE ERIS (ZD9220 - CME) vs 10 YEAR INTEREST RATE SWAP DELIVERABLE FUTURE (N1U - CME)						
Spread Credit Rate	New	+1:+4			60%	60%
20YR INTEREST RATE SWAP FUTURE ERIS (ZD9220 - CME) vs 10-YEAR T-NOTE (21 - CME)						
Spread Credit Rate	New	+1:-2			70%	70%
20YR INTEREST RATE SWAP FUTURE ERIS (ZD9220 - CME) vs 20-YEAR USD DELIVERABLE INTEREST RATE SWAP FUTURES (E1U - CME)						
Spread Credit Rate	New	+1:+1			90%	90%
20YR INTEREST RATE SWAP FUTURE ERIS (ZD9220 - CME) vs 30 YEAR INTEREST RATE SWAP DELIVERABLE FUTURE (B1U - CME)						
Spread Credit Rate	New	+3:+2			75%	75%
20YR INTEREST RATE SWAP FUTURE ERIS (ZD9220 - CME) vs 5 YEAR INTEREST RATE SWAP DELIVERABLE FUTURE (F1U - CME)						
Spread Credit Rate	New	+1:+4			50%	50%
20YR INTEREST RATE SWAP FUTURE ERIS (ZD9220 - CME) vs 5-YEAR T-NOTE (25 - CME)						
Spread Credit Rate	New	+1:-2			50%	50%
20YR INTEREST RATE SWAP FUTURE ERIS (ZD9220 - CME) vs 7-YEAR USD DELIVERABLE INTEREST RATE SWAP FUTURES (S1U - CME)						
Spread Credit Rate	New	+1:+3			55%	55%
20YR INTEREST RATE SWAP FUTURE ERIS (ZD9220 - CME) vs U.S. TREASURY BOND (17 - CME)						
Spread Credit Rate	New	+3:-2			65%	65%
20YR INTEREST RATE SWAP FUTURE ERIS (ZD9220 - CME) vs ULTRA 10-YEAR U.S. TREASURY NOTE FUTURES (TN - CME)						
Spread Credit Rate	New	+1:-2			70%	70%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
20YR INTEREST RATE SWAP FUTURE ERIS (ZD9220 - CME) vs ULTRA LONG TREASURY BOND (UBE - CME)						
Spread Credit Rate	New	+3:-2			70%	70%
3 YR INTEREST RATE SWAP FUTURE ERIS (ZB9203 - CME) vs 10-YEAR T-NOTE (21 - CME)						
Spread Credit Rate	New	+4:-1			50%	50%
3 YR INTEREST RATE SWAP FUTURE ERIS (ZB9203 - CME) vs 5 YEAR INTEREST RATE SWAP DELIVERABLE FUTURE (F1U - CME)						
Spread Credit Rate	New	+6:+5			50%	50%
3 YR INTEREST RATE SWAP FUTURE ERIS (ZB9203 - CME) vs 5-YEAR T-NOTE (25 - CME)						
Spread Credit Rate	New	+6:-5			60%	60%
3 YR INTEREST RATE SWAP FUTURE ERIS (ZB9203 - CME) vs EURODOLLAR (ED - CME)						
Spread Credit Rate	New	+7:-10			20%	20%
Spread Credit Rate	New	+7:-10			50%	50%
3 YR INTEREST RATE SWAP FUTURE ERIS (ZB9203 - CME) vs ULTRA 10-YEAR U.S. TREASURY NOTE FUTURES (TN - CME)						
Spread Credit Rate	New	+4:-1			50%	50%
4YR INTEREST RATE SWAP FUTURE ERIS (ZB9204 - CME) vs 10-YEAR T-NOTE (21 - CME)						
Spread Credit Rate	New	+3:-2			60%	60%
4YR INTEREST RATE SWAP FUTURE ERIS (ZB9204 - CME) vs 2-YEAR T-NOTE (26 - CME)						
Spread Credit Rate	New	+5:-6			70%	70%
4YR INTEREST RATE SWAP FUTURE ERIS (ZB9204 - CME) vs 5-YEAR T-NOTE (25 - CME)						
Spread Credit Rate	New	+1:-1			70%	70%
4YR INTEREST RATE SWAP FUTURE ERIS (ZB9204 - CME) vs EURODOLLAR (ED - CME)						
Spread Credit Rate	New	+3:-5			50%	50%
Spread Credit Rate	New	+3:-5			75%	75%
4YR INTEREST RATE SWAP FUTURE ERIS (ZB9204 - CME) vs ULTRA 10-YEAR U.S. TREASURY NOTE FUTURES (TN - CME)						
Spread Credit Rate	New	+3:-2			60%	60%
Spread Credit Rate	New	+2:-1			50%	50%
ULTRA 10-YEAR U.S. TREASURY NOTE FUTURES (TN - CME) vs 10YR INTEREST RATE SWAP FUTURE ERIS (ZC9110 - CME)						
Spread Credit Rate	New	+1:-1			80%	80%
ULTRA 10-YEAR U.S. TREASURY NOTE FUTURES (TN - CME) vs 30YR INTEREST RATE SWAP FUTURE ERIS (ZD9130 - CME)						
Spread Credit Rate	New	+3:-1			55%	55%
ULTRA 10-YEAR U.S. TREASURY NOTE FUTURES (TN - CME) vs 5YR INTEREST RATE SWAP FUTURE ERIS (ZB9105 - CME)						
Spread Credit Rate	New	+1:-2			65%	65%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
METALS - Inter-commodity Spread Rates						
ALUMINUM FUTURES (CX-ALI - CME) vs GOLD FUTURES (CX-GC - CME)						
Spread Credit Rate	Decrease	+1:-1	20%	20%	0%	0%
PALLADIUM FUTURES (NY-PA - CME) vs BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME)						
Spread Credit Rate	Increase	+1:-1	0%	0%	45%	45%
NATURAL GAS - Inter-commodity Spread Rates						
SOCAL PIPE SWAP (NY-XN - CME) vs MONT BELVIEU ETHANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-C0 - CME)						
Spread Credit Rate	Increase	+4:-1	40%	40%	55%	55%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance

Inter-commodity Spread Rates

NGL/PETROCHEMICALS - Inter-commodity Spread Rates

ARGUS PROPANE (SAUDI ARAMCO) SWAP FUTURES (NY-9N - CME) vs BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME)

Spread Credit Rate	Decrease	+2:-15	55%	55%	40%	40%

ARGUS PROPANE (SAUDI ARAMCO) SWAP FUTURES (NY-9N - CME) vs BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME)

Spread Credit Rate	Decrease	+2:-15	55%	55%	40%	40%

ARGUS PROPANE (SAUDI ARAMCO) SWAP FUTURES (NY-9N - CME) vs BRENT CRUDE OIL PENULTIMATE FINANCIAL FUTURES (NY-BB - CME)

Spread Credit Rate	Decrease	+2:-15	55%	55%	40%	40%

ARGUS PROPANE (SAUDI ARAMCO) SWAP FUTURES (NY-9N - CME) vs DATED BRENT (PLATTS) CALENDAR SWAP FUTURES (NY-UB - CME)

Spread Credit Rate	Decrease	+1:-12	45%	45%	35%	35%

ARGUS PROPANE FAR EAST INDEX SWAP FUTURES (NY-7E - CME) vs BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME)

Spread Credit Rate	Increase	+2:-15	55%	55%	65%	65%

ARGUS PROPANE FAR EAST INDEX SWAP FUTURES (NY-7E - CME) vs BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME)

Spread Credit Rate	Increase	+2:-15	55%	55%	65%	65%

ARGUS PROPANE FAR EAST INDEX SWAP FUTURES (NY-7E - CME) vs BRENT CRUDE OIL PENULTIMATE FINANCIAL FUTURES (NY-BB - CME)

Spread Credit Rate	Increase	+2:-15	55%	55%	65%	65%

ARGUS PROPANE FAR EAST INDEX SWAP FUTURES (NY-7E - CME) vs DATED BRENT (PLATTS) CALENDAR SWAP FUTURES (NY-UB - CME)

Spread Credit Rate	Increase	+1:-12	55%	55%	65%	65%

ARGUS PROPANE FAR EAST INDEX SWAP FUTURES (NY-7E - CME) vs DME OMAN CRUDE OIL SWAP FUTURES (NY-DOO - CME)

Spread Credit Rate	Increase	+2:-15	55%	55%	70%	70%

ARGUS PROPANE FAR EAST INDEX SWAP FUTURES (NY-7E - CME) vs DUBAI CRUDE OIL (PLATTS) CALENDAR SWAP FUTURES (NY-DC - CME)

Spread Credit Rate	Increase	+1:-12	45%	45%	70%	70%

ARGUS PROPANE FAR EAST INDEX SWAP FUTURES (NY-7E - CME) vs OMAN CRUDE OIL (NY-OQ - CME)

Spread Credit Rate	Increase	+2:-15	55%	55%	70%	70%

ARGUS PROPANE FAR EAST INDEX SWAP FUTURES (NY-7E - CME) vs SINGAPORE FUEL OIL 180 CST (PLATTS) CALENDAR SWAP FUTURES (NY-UA - CME)

Spread Credit Rate	Increase	+1:-1	45%	45%	60%	60%

BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME) vs MONT BELVIEU NORMAL BUTANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-D0 - CME)

Spread Credit Rate	Decrease	+1:-1	50%	50%	40%	40%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME) vs PROPANE NON-LDH MONT BELVIEU (OPIS) SWAP FUTURES (NY-1R - CME)						
Spread Credit Rate	Decrease	+1:-1	45%	45%	35%	35%
BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME) vs MONT BELVIEU NORMAL BUTANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-D0 - CME)						
Spread Credit Rate	Decrease	+1:-1	50%	50%	40%	40%
BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME) vs PROPANE NON-LDH MONT BELVIEU (OPIS) SWAP FUTURES (NY-1R - CME)						
Spread Credit Rate	Decrease	+1:-1	45%	45%	35%	35%
BRENT CRUDE OIL PENULTIMATE FINANCIAL FUTURES (NY-BB - CME) vs PROPANE NON-LDH MONT BELVIEU (OPIS) SWAP FUTURES (NY-1R - CME)						
Spread Credit Rate	Decrease	+1:-1	45%	45%	35%	35%
CONWAY NATURAL GASOLINE (OPIS) SWAP FUTURES (NY-8L - CME) vs MONT BELVIEU ISO-BUTANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-8I - CME)						
Spread Credit Rate	Increase	+1:-1	35%	35%	55%	55%
CONWAY NATURAL GASOLINE (OPIS) SWAP FUTURES (NY-8L - CME) vs MONT BELVIEU NORMAL BUTANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-D0 - CME)						
Spread Credit Rate	Increase	+1:-1	35%	35%	55%	55%
CONWAY NATURAL GASOLINE (OPIS) SWAP FUTURES (NY-8L - CME) vs NEW YORK HARBOR RESIDUAL FUEL 1.0% (PLATTS) SWAP FUTURES (NY-MM - CME)						
Spread Credit Rate	Increase	+1:-1	30%	30%	60%	60%
CONWAY NORMAL BUTANE (OPIS) SWAP FUTURES (NY-8M - CME) vs BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME)						
Spread Credit Rate	Decrease	+1:-1	50%	50%	40%	40%
CONWAY NORMAL BUTANE (OPIS) SWAP FUTURES (NY-8M - CME) vs BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME)						
Spread Credit Rate	Decrease	+1:-1	50%	50%	40%	40%
CONWAY NORMAL BUTANE (OPIS) SWAP FUTURES (NY-8M - CME) vs BRENT CRUDE OIL PENULTIMATE FINANCIAL FUTURES (NY-BB - CME)						
Spread Credit Rate	Decrease	+1:-1	50%	50%	40%	40%
CONWAY NORMAL BUTANE (OPIS) SWAP FUTURES (NY-8M - CME) vs MONT BELVIEU ISO-BUTANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-8I - CME)						
Spread Credit Rate	Increase	+1:-1	60%	60%	75%	75%
CONWAY NORMAL BUTANE (OPIS) SWAP FUTURES (NY-8M - CME) vs MONT BELVIEU NORMAL BUTANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-D0 - CME)						
Spread Credit Rate	Increase	+1:-1	60%	60%	75%	75%
CONWAY NORMAL BUTANE (OPIS) SWAP FUTURES (NY-8M - CME) vs MONT BELVIEU NORMAL BUTANE LDH (OPIS) SWAP FUTURES (NY-MNB - CME)						
Spread Credit Rate	Increase	+1:-1	50%	50%	75%	75%

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 - CME) vs MONT BELVIEU NATURAL GASOLINE 5 DECIMALS (OPIS) SWAP FUTURES (NY-7Q - CME)						
Spread Credit Rate	Increase	+1:-1	0%	0%	30%	30%
CONWAY PROPANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-8K - CME) vs SINGAPORE JET KEROSENE (PLATTS) SWAP FUTURES (NY-KS - CME)						
Spread Credit Rate	Decrease	+1:-1	50%	50%	30%	30%
CONWAY PROPANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-8K) vs. DME OMAN CRUDE OIL (NY-OQ)						
Spread Credit Rate	Increase	+1:-1	0%	0%	35%	35%
CONWAY PROPANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-8K) vs. DUBAI CRUDE OIL (PLATTS) CALENDAR SWAP FUTURES (NY-DC)						
Spread Credit Rate	Increase	+1:-1	0%	0%	35%	35%
CONWAY PROPANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-8K) vs. SINGAPORE GASOIL (PLATTS) SWAP FUTURES (NY-SG)						
Spread Credit Rate	Decrease	+1:-1	50%	50%	30%	30%
CRUDE OIL FINANCIAL FUTURES (NY-WS - CME) vs ARGUS PROPANE (SAUDI ARAMCO) SWAP FUTURES (NY-9N - CME)						
Spread Credit Rate	Decrease	+12:-1	45%	45%	35%	35%
CRUDE OIL FINANCIAL FUTURES (NY-WS - CME) vs ARGUS PROPANE FAR EAST INDEX SWAP FUTURES (NY-7E - CME)						
Spread Credit Rate	Increase	+12:-1	45%	45%	65%	65%
CRUDE OIL FINANCIAL FUTURES (NY-WS - CME) vs CONWAY PROPANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-8K - CME)						
Spread Credit Rate	Decrease	+1:-2	60%	60%	30%	30%
CRUDE OIL FINANCIAL FUTURES (NY-WS - CME) vs MONT BELVIEU ISO-BUTANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-8I - CME)						
Spread Credit Rate	Decrease	+1:-1	55%	55%	45%	45%
CRUDE OIL FINANCIAL FUTURES (NY-WS - CME) vs MONT BELVIEU PHYSICAL NON-LDH PROPANE (OPIS) FUTURES (NY-3P - CME)						
Spread Credit Rate	Decrease	+1:-1	45%	45%	30%	30%
CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-26 - CME) vs ARGUS PROPANE (SAUDI ARAMCO) SWAP FUTURES (NY-9N - CME)						
Spread Credit Rate	Decrease	+12:-1	45%	45%	35%	35%
CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-26 - CME) vs ARGUS PROPANE FAR EAST INDEX SWAP FUTURES (NY-7E - CME)						
Spread Credit Rate	Increase	+12:-1	45%	45%	65%	65%
CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-26 - CME) vs MONT BELVIEU PHYSICAL NON-LDH PROPANE (OPIS) FUTURES (NY-3P - CME)						
Spread Credit Rate	Decrease	+1:-1	45%	45%	30%	30%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
DME OMAN CRUDE OIL SWAP FUTURES (NY-DOO - CME) vs PROPANE NON-LDH MONT BELVIEU (OPIS) SWAP FUTURES (NY-1R - CME)						
Spread Credit Rate	Increase	+1:-1	40%	40%	45%	45%
DUBAI CRUDE OIL CALENDAR SWAP (NY-DC) vs. MONT BELVIEU LDH PROPANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-B0)						
Spread Credit Rate	Increase	+1:-1	30%	30%	45%	45%
EUROPE DATED BRENT SWAP (NY-UB) vs. MONT BELVIEU LDH PROPANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-B0)						
Spread Credit Rate	Decrease	+1:-1	55%	55%	40%	40%
EUROPEAN PROPANE CIF ARA (ARGUS) SWAP FUTURES (NY-PS - CME) vs DME OMAN CRUDE OIL SWAP FUTURES (NY-DOO - CME)						
Spread Credit Rate	Increase	+2:-15	70%	70%	75%	75%
EUROPEAN PROPANE CIF ARA (ARGUS) SWAP FUTURES (NY-PS - CME) vs DUBAI CRUDE OIL (PLATTS) CALENDAR SWAP FUTURES (NY-DC - CME)						
Spread Credit Rate	Increase	+1:-12	50%	50%	75%	75%
EUROPEAN PROPANE CIF ARA (ARGUS) SWAP FUTURES (NY-PS - CME) vs OMAN CRUDE OIL (NY-OQ - CME)						
Spread Credit Rate	Increase	+2:-15	70%	70%	75%	75%
EUROPEAN PROPANE CIF ARA (ARGUS) SWAP FUTURES (NY-PS) vs. NEW YORK HARBOR RESIDUAL FUEL 1.0% (PLATTS) SWAP FUTURES (NY-MM)						
Spread Credit Rate	Increase	+3:-19	55%	55%	70%	70%
LIGHT SWEET CRUDE OIL FUTURES (NY-CL - CME) vs ARGUS PROPANE (SAUDI ARAMCO) SWAP FUTURES (NY-9N - CME)						
Spread Credit Rate	Decrease	+12:-1	45%	45%	35%	35%
LIGHT SWEET CRUDE OIL FUTURES (NY-CL, CS, WS) vs ARGUS PROPANE FAR EAST INDEX SWAP FUTURES (NY-7E - CME)						
Spread Credit Rate	Increase	+12:-1	45%	45%	65%	65%
LIGHT SWEET CRUDE OIL FUTURES (NY-CL, CS, WS) vs CONWAY PROPANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-8K - CME)						
Spread Credit Rate	Decrease	+1:-2	60%	60%	30%	30%
LIGHT SWEET CRUDE OIL FUTURES (NY-CL, CS, WS) vs MONT BELVIEU ISO-BUTANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-8I - CME)						
Spread Credit Rate	Decrease	+1:-1	55%	55%	45%	45%
LIGHT SWEET CRUDE OIL FUTURES (NY-CL, CS, WS) vs MONT BELVIEU LDH PROPANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-B0 - CME)						
Spread Credit Rate	Decrease	+1:-1	55%	55%	40%	40%
MONT BELVIEU ISO-BUTANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-8I - CME) vs BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME)						
Spread Credit Rate	Decrease	+1:-1	50%	50%	40%	40%

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 - CME) vs BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME)						
Spread Credit Rate	Decrease	+1:-1	50%	50%	40%	40%
MONT BELVIEU ISO-BUTANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-8I - CME) vs DATED BRENT (PLATTS) CALENDAR SWAP FUTURES (NY-UB - CME)						
Spread Credit Rate	Decrease	+1:-1	50%	50%	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	Decrease	+1:-1	55%	55%	40%	40%
MONT BELVIEU ISO-BUTANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-8I - CME) vs SINGAPORE JET KEROSENE (PLATTS) SWAP FUTURES (NY-KS - CME)						
Spread Credit Rate	Decrease	+1:-1	60%	60%	40%	40%
MONT BELVIEU ISO-BUTANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-8I) vs. BRENT FINANCIAL FUTURES (NY-BB)						
Spread Credit Rate	Decrease	+1:-1	50%	50%	40%	40%
Spread Credit Rate	Decrease	+1:-1	50%	50%	40%	40%
MONT BELVIEU ISO-BUTANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-8I) vs. DUBAI CRUDE OIL (PLATTS) CALENDAR SWAP FUTURES (NY-DC)						
Spread Credit Rate	Decrease	+1:-1	55%	55%	25%	25%
MONT BELVIEU LDH PROPANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-B0 - CME) vs CONWAY NATURAL GASOLINE (OPIS) SWAP FUTURES (NY-8L - CME)						
Spread Credit Rate	Increase	+1:-1	30%	30%	45%	45%
MONT BELVIEU LDH PROPANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-B0 - CME) vs CONWAY PROPANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-8K - CME)						
Spread Credit Rate	Increase	+1:-1	60%	60%	75%	75%
MONT BELVIEU LDH PROPANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-B0) vs. BRENT FINANCIAL FUTURES (NY-BB)						
Spread Credit Rate	Decrease	+1:-1	45%	45%	35%	35%
MONT BELVIEU NORMAL BUTANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-D0 - CME) vs LIGHT SWEET CRUDE OIL FUTURES (NY-CL, CS, WS)						
Spread Credit Rate	Decrease	+1:-1	60%	60%	40%	40%
MONT BELVIEU NORMAL BUTANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-D0 - CME) vs WTI CALENDAR SWAP FUTURES (NY-CS - CME)						
Spread Credit Rate	Decrease	+1:-1	60%	60%	40%	40%
MONT BELVIEU NORMAL BUTANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-D0 - CME) vs WTI CALENDAR SWAP FUTURES (NY-CS - CME).						
Spread Credit Rate	Decrease	+1:-1	60%	60%	40%	40%
MONT BELVIEU NORMAL BUTANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-D0) vs. BRENT FINANCIAL FUTURES (NY-BB)						
Spread Credit Rate	Decrease	+1:-1	50%	50%	40%	40%

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. CONWAY PROPANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-8K)						
Spread Credit Rate	Increase	+1:-1	0%	0%	55%	55%
MONT BELVIEU NORMAL BUTANE LDH (OPIS) SWAP FUTURES (NY-MNB) vs. DATED BRENT (PLATTS) CALENDAR SWAP FUTURES (NY-UB)						
Spread Credit Rate	Increase	+1:-1	30%	30%	50%	50%
MONT BELVIEU NORMAL BUTANE LDH (OPIS) SWAP FUTURES (NY-MNB) vs. DUBAI CRUDE OIL (PLATTS) CALENDAR SWAP FUTURES (NY-DC)						
Spread Credit Rate	Decrease	+1:-1	55%	55%	30%	30%
MONT BELVIEU NORMAL BUTANE LDH (OPIS) SWAP FUTURES (NY-MNB) vs. MONT BELVIEU LDH PROPANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-B0)						
Spread Credit Rate	Increase	+1:-1	0%	0%	75%	75%
MONT BELVIEU PHYSICAL NON-LDH PROPANE (OPIS) FUTURES (NY-3P - CME) vs WTI CALENDAR SWAP FUTURES (NY-CS - CME)						
Spread Credit Rate	Decrease	+1:-1	45%	45%	30%	30%
MONT BELVIEU PHYSICAL NORMAL BUTANE (OPIS) FUTURES (NY-3M - CME) vs MONT BELVIEU ISO-BUTANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-8I - CME)						
Spread Credit Rate	Increase	+1:-1	40%	40%	65%	65%
OMAN CRUDE OIL (NY-OQ - CME) vs PROPANE NON-LDH MONT BELVIEU (OPIS) SWAP FUTURES (NY-1R - CME)						
Spread Credit Rate	Increase	+1:-1	40%	40%	45%	45%
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	Increase	+19:-3	40%	40%	55%	55%
PROPANE NON-LDH MONT BELVIEU (OPIS) SWAP FUTURES (NY-1R - CME) vs CONWAY NATURAL GASOLINE (OPIS) SWAP FUTURES (NY-8L - CME)						
Spread Credit Rate	Increase	+1:-1	30%	30%	50%	50%
PROPANE NON-LDH MONT BELVIEU (OPIS) SWAP FUTURES (NY-1R - CME) vs CONWAY NORMAL BUTANE (OPIS) SWAP FUTURES (NY-8M - CME)						
Spread Credit Rate	Increase	+1:-1	50%	50%	70%	70%
PROPANE NON-LDH MONT BELVIEU (OPIS) SWAP FUTURES (NY-1R - CME) vs CONWAY PROPANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-8K - CME)						
Spread Credit Rate	Increase	+1:-1	60%	60%	80%	80%
PROPANE NON-LDH MONT BELVIEU (OPIS) SWAP FUTURES (NY-1R - CME) vs DATED BRENT (PLATTS) CALENDAR SWAP FUTURES (NY-UB - CME)						
Spread Credit Rate	Decrease	+1:-1	45%	45%	35%	35%
PROPANE NON-LDH MONT BELVIEU (OPIS) SWAP FUTURES (NY-1R - CME) vs DUBAI CRUDE OIL (PLATTS) CALENDAR SWAP FUTURES (NY-DC - 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						
PROPANE NON-LDH MONT BELVIEU (OPIS) SWAP FUTURES (NY-1R - CME) vs MONT BELVIEU NORMAL BUTANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-D0 - CME)						
Spread Credit Rate	Increase	+1:-1	60%	60%	75%	75%
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	Increase	+19:-3	40%	40%	60%	60%
SOCAL PIPE SWAP (NY-XN - CME) vs MONT BELVIEU ETHANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-C0 - CME)						
Spread Credit Rate	Increase	+4:-1	40%	40%	55%	55%
WTI CALENDAR SWAP FUTURES (NY-CS - CME) vs ARGUS PROPANE (SAUDI ARAMCO) SWAP FUTURES (NY-9N - CME)						
Spread Credit Rate	Decrease	+12:-1	45%	45%	35%	35%
WTI CALENDAR SWAP FUTURES (NY-CS - CME) vs ARGUS PROPANE FAR EAST INDEX SWAP FUTURES (NY-7E - CME)						
Spread Credit Rate	Increase	+12:-1	45%	45%	65%	65%
WTI CALENDAR SWAP FUTURES (NY-CS - CME) vs CONWAY PROPANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-8K - CME)						
Spread Credit Rate	Decrease	+1:-2	60%	60%	30%	30%
WTI CALENDAR SWAP FUTURES (NY-CS - CME) vs CONWAY PROPANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-8K - CME).						
Spread Credit Rate	Decrease	+1:-2	60%	60%	30%	30%
WTI CALENDAR SWAP FUTURES (NY-CS - CME) vs MONT BELVIEU ISO-BUTANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-8I - CME)						
Spread Credit Rate	Decrease	+1:-1	55%	55%	45%	45%
WTI CALENDAR SWAP FUTURES (NY-CS - CME) vs MONT BELVIEU ISO-BUTANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-8I - CME).						
Spread Credit Rate	Decrease	+1:-1	55%	55%	45%	45%
WTI CALENDAR SWAP FUTURES (NY-CS - CME) vs MONT BELVIEU LDH PROPANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-B0 - CME)						
Spread Credit Rate	Decrease	+1:-1	55%	55%	40%	40%
PETROLEUM CRACKS AND SPREADS - Inter-commodity Spread Rates						
GASOLINE EURO-BOB OXY (ARGUS) NWE BARGES SWAP FUTURES (NY-7H - CME) vs GASOLINE EURO-BOB OXY (ARGUS) NWE BARGES CRACK SPREAD SWAP FUTURES (NY-7K - CME)						
Spread Credit Rate	Decrease	+3:-25	30%	30%	0%	0%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

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

REFINED PRODUCTS - Inter-commodity Spread Rates

1% FUEL OIL (PLATTS) CARGOES CIF MED SWAP FUTURES (NY-1W - CME) vs BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME)

Spread Credit Rate	Decrease	+2:-15	75%	75%	60%	60%

1% FUEL OIL (PLATTS) CARGOES CIF MED SWAP FUTURES (NY-1W - CME) vs BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME)

Spread Credit Rate	Decrease	+2:-15	75%	75%	60%	60%

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	75%	75%	60%	60%

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%	65%	65%

1% FUEL OIL (PLATTS) CARGOES CIF MED SWAP FUTURES (NY-1W - CME) vs DUBAI CRUDE OIL (PLATTS) CALENDAR SWAP FUTURES (NY-DC - CME)

Spread Credit Rate	Decrease	+3:-19	80%	80%	65%	65%

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	75%	75%	60%	60%

1% FUEL OIL (PLATTS) CARGOES CIF MED SWAP FUTURES (NY-1W - CME) vs WTI CALENDAR SWAP FUTURES (NY-CS - CME)

Spread Credit Rate	Decrease	+3:-19	75%	75%	60%	60%

ARGUS PROPANE FAR EAST INDEX SWAP FUTURES (NY-7E - CME) vs SINGAPORE FUEL OIL 180 CST (PLATTS) CALENDAR SWAP FUTURES (NY-UA - CME)

Spread Credit Rate	Increase	+1:-1	45%	45%	60%	60%

BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME) vs EUROPEAN 1% FUEL OIL (PLATTS) BARGES FOB RDAM CALENDAR SWAP FUTURES (NY-UH - CME)

Spread Credit Rate	Decrease	+33:-5	85%	85%	65%	65%

BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME) vs EUROPEAN 1% FUEL OIL (PLATTS) BARGES FOB RDAM CALENDAR SWAP FUTURES (NY-UH - CME).

Spread Credit Rate	Decrease	+33:-5	85%	85%	65%	65%

BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME) vs GULF COAST ULSD (PLATTS) SWAP FUTURES (NY-LY - CME)

Spread Credit Rate	Increase	+1:-1	60%	60%	70%	70%

BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME) vs HEATING OIL CALENDAR SWAP FUTURES (NY-MP - CME)

Spread Credit Rate	Increase	+1:-1	40%	40%	70%	70%

BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME) vs HEATING OIL FINANCIAL FUTURES (NY-BH - 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						
BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME) vs HEATING OIL LAST DAY FINANCIAL FUTURES (NY-23 - CME)						
Spread Credit Rate	Increase	+1:-1	60%	60%	70%	70%
BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME) vs NEW YORK HARBOR NO. 2 HEATING OIL FUTURES (NY-HO - CME)						
Spread Credit Rate	Increase	+1:-1	60%	60%	70%	70%
BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME) vs NEW YORK HARBOR RESIDUAL FUEL 1.0% (PLATTS) SWAP FUTURES (NY-MM - CME)						
Spread Credit Rate	Decrease	+1:-1	80%	80%	70%	70%
BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME) vs RBOB GASOLINE CALENDAR SWAP FUTURES (NY-RL - CME)						
Spread Credit Rate	Decrease	+1:-1	75%	75%	72%	72%
BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME) vs RBOB GASOLINE FUTURES (NY-RB - CME)						
Spread Credit Rate	Decrease	+1:-1	70%	70%	68%	68%
Spread Credit Rate	Decrease	+1:-1	75%	75%	72%	72%
BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME) vs SINGAPORE FUEL OIL 380 CST (PLATTS) SWAP FUTURES (NY-SE - CME)						
Spread Credit Rate	Decrease	+19:-3	85%	85%	75%	75%
BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME) vs SINGAPORE FUEL OIL 380 CST (PLATTS) SWAP FUTURES (NY-SE - CME).						
Spread Credit Rate	Decrease	+19:-3	85%	85%	75%	75%
BRENT CRUDE OIL BULLET SWAP FINANCIAL (NYM-BB, BZ, CY) vs HEATING OIL (NYM-HO, BH, MP)						
Spread Credit Rate	Increase	+1:-1	60%	60%	70%	70%
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	85%	85%	75%	75%
BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME) vs EUROPEAN 1% FUEL OIL (PLATTS) BARGES FOB RDAM CALENDAR SWAP FUTURES (NY-UH - CME)						
Spread Credit Rate	Decrease	+33:-5	85%	85%	65%	65%
BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME) vs GULF COAST ULSD (PLATTS) SWAP FUTURES (NY-LY - CME)						
Spread Credit Rate	Increase	+1:-1	60%	60%	70%	70%
BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME) vs HEATING OIL CALENDAR SWAP FUTURES (NY-MP - CME)						
Spread Credit Rate	Increase	+1:-1	65%	65%	70%	70%
BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME) vs HEATING OIL FINANCIAL FUTURES (NY-BH - 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						
BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME) vs HEATING OIL LAST DAY FINANCIAL FUTURES (NY-23 - CME)						
Spread Credit Rate	Increase	+1:-1	60%	60%	70%	70%
BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME) vs NEW YORK HARBOR NO. 2 HEATING OIL FUTURES (NY-HO - CME)						
Spread Credit Rate	Increase	+1:-1	60%	60%	70%	70%
BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME) vs NEW YORK HARBOR RESIDUAL FUEL 1.0% (PLATTS) SWAP FUTURES (NY-MM - CME)						
Spread Credit Rate	Decrease	+1:-1	80%	80%	70%	70%
BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME) vs RBOB GASOLINE FUTURES (NY-RB - CME)						
Spread Credit Rate	Decrease	+1:-1	75%	75%	72%	72%
Spread Credit Rate	Decrease	+1:-1	70%	70%	68%	68%
BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME) vs SINGAPORE FUEL OIL 380 CST (PLATTS) SWAP FUTURES (NY-SE - CME)						
Spread Credit Rate	Decrease	+19:-3	85%	85%	75%	75%
BRENT CRUDE OIL PENULTIMATE FINANCIAL FUTURES (NY-BB - CME) vs EUROPEAN 1% FUEL OIL (PLATTS) BARGES FOB RDAM CALENDAR SWAP FUTURES (NY-UH - CME)						
Spread Credit Rate	Decrease	+33:-5	85%	85%	65%	65%
BRENT CRUDE OIL PENULTIMATE FINANCIAL FUTURES (NY-BB - CME) vs GULF COAST ULSD (PLATTS) SWAP FUTURES (NY-LY - CME)						
Spread Credit Rate	Increase	+1:-1	60%	60%	70%	70%
BRENT CRUDE OIL PENULTIMATE FINANCIAL FUTURES (NY-BB - CME) vs HEATING OIL CALENDAR SWAP FUTURES (NY-MP - CME)						
Spread Credit Rate	Increase	+1:-1	65%	65%	70%	70%
BRENT CRUDE OIL PENULTIMATE FINANCIAL FUTURES (NY-BB - CME) vs HEATING OIL FINANCIAL FUTURES (NY-BH - CME)						
Spread Credit Rate	Increase	+1:-1	60%	60%	70%	70%
BRENT CRUDE OIL PENULTIMATE FINANCIAL FUTURES (NY-BB - CME) vs HEATING OIL LAST DAY FINANCIAL FUTURES (NY-23 - CME)						
Spread Credit Rate	Increase	+1:-1	60%	60%	70%	70%
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%	70%	70%
BRENT CRUDE OIL PENULTIMATE FINANCIAL FUTURES (NY-BB - CME) vs RBOB GASOLINE FUTURES (NY-RB - CME)						
Spread Credit Rate	Decrease	+1:-1	75%	75%	72%	72%
Spread Credit Rate	Decrease	+1:-1	70%	70%	68%	68%
CONWAY NATURAL GASOLINE (OPIS) SWAP FUTURES (NY-8L - CME) vs NEW YORK HARBOR RESIDUAL FUEL 1.0% (PLATTS) SWAP FUTURES (NY-MM - CME)						
Spread Credit Rate	Increase	+1:-1	30%	30%	60%	60%

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 - CME) vs SINGAPORE JET KEROSENE (PLATTS) SWAP FUTURES (NY-KS - CME)						
Spread Credit Rate	Decrease	+1:-1	50%	50%	30%	30%
CONWAY PROPANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-8K) vs. SINGAPORE GASOIL (PLATTS) SWAP FUTURES (NY-SG)						
Spread Credit Rate	Decrease	+1:-1	50%	50%	30%	30%
CRUDE OIL FINANCIAL FUTURES (NY-WS - CME) vs 1% FUEL OIL (PLATTS) CARGOES CIF MED SWAP FUTURES (NY-1W - CME)						
Spread Credit Rate	Decrease	+19:-3	75%	75%	60%	60%
CRUDE OIL FINANCIAL FUTURES (NY-WS - CME) vs NEW YORK HARBOR NO. 2 HEATING OIL FUTURES (NY-HO - CME)						
Spread Credit Rate	Increase	+1:-1	60%	60%	70%	70%
CRUDE OIL FINANCIAL FUTURES (NY-WS - CME) vs RBOB GASOLINE CALENDAR SWAP FUTURES (NY-RL - CME)						
Spread Credit Rate	Decrease	+1:-1	72%	72%	70%	70%
CRUDE OIL FINANCIAL FUTURES (NY-WS - CME) vs RBOB GASOLINE FINANCIAL FUTURES (NY-RT - CME)						
Spread Credit Rate	Decrease	+1:-1	72%	72%	70%	70%
CRUDE OIL FINANCIAL FUTURES (NY-WS - CME) vs RBOB GASOLINE FUTURES (NY-RB - CME)						
Spread Credit Rate	Decrease	+1:-1	70%	70%	68%	68%
Spread Credit Rate	Decrease	+1:-1	72%	72%	70%	70%
CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-26 - CME) vs 1% FUEL OIL (PLATTS) CARGOES CIF MED SWAP FUTURES (NY-1W - CME)						
Spread Credit Rate	Decrease	+19:-3	75%	75%	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	Decrease	+1:-1	80%	80%	70%	70%
EUROPEAN 1% FUEL OIL (PLATTS) BARGES FOB RDAM CALENDAR SWAP FUTURES (NY-UH - CME) vs DATED BRENT (PLATTS) CALENDAR SWAP FUTURES (NY-UB - CME)						
Spread Credit Rate	Decrease	+3:-19	75%	75%	65%	65%
EUROPEAN 1% FUEL OIL (PLATTS) BARGES FOB RDAM CALENDAR SWAP FUTURES (NY-UH - CME) vs DUBAI CRUDE OIL (PLATTS) CALENDAR SWAP FUTURES (NY-DC - CME)						
Spread Credit Rate	Decrease	+3:-19	85%	85%	65%	65%
EUROPEAN 1% FUEL OIL (PLATTS) BARGES FOB RDAM CALENDAR SWAP FUTURES (NY-UH - CME) vs LIGHT SWEET CRUDE OIL FUTURES (NY-CL - CME)						
Spread Credit Rate	Decrease	+5:-33	75%	75%	60%	60%
EUROPEAN 1% FUEL OIL (PLATTS) BARGES FOB RDAM CALENDAR SWAP FUTURES (NY-UH - CME) vs OMAN CRUDE OIL (NY-OQ - CME)						
Spread Credit Rate	Decrease	+2:-15	80%	80%	65%	65%
EUROPEAN 1% FUEL OIL (PLATTS) BARGES FOB RDAM CALENDAR SWAP FUTURES (NY-UH - CME) vs WTI CALENDAR SWAP FUTURES (NY-CS - CME)						
Spread Credit Rate	Decrease	+5:-33	75%	75%	60%	60%

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) BARGES FOB RDAM CALENDAR SWAP FUTURES (NY-UH - CME) vs WTI CALENDAR SWAP FUTURES (NY-CS - CME).						
Spread Credit Rate	Decrease	+5:-33	75%	75%	60%	60%
EUROPEAN 3.5% FUEL OIL (PLATTS) BARGES FOB RDAM CALENDAR SWAP FUTURES (NY-UV - CME) vs DATED BRENT (PLATTS) CALENDAR SWAP FUTURES (NY-UB - CME)						
Spread Credit Rate	Decrease	+3:-19	85%	85%	75%	75%
EUROPEAN 3.5% FUEL OIL (PLATTS) BARGES FOB RDAM CALENDAR SWAP FUTURES (NY-UV - CME) vs LIGHT SWEET CRUDE OIL FUTURES (NY-CL - CME)						
Spread Credit Rate	Decrease	+5:-33	75%	75%	65%	65%
EUROPEAN PROPANE CIF ARA (ARGUS) SWAP FUTURES (NY-PS) vs. NEW YORK HARBOR RESIDUAL FUEL 1.0% (PLATTS) SWAP FUTURES (NY-MM)						
Spread Credit Rate	Increase	+3:-19	55%	55%	70%	70%
GASOLINE EURO-BOB OXY (ARGUS) NWE BARGES SWAP FUTURES (NY-7H - CME) vs DME OMAN CRUDE OIL SWAP FUTURES (NY-DOO - CME)						
Spread Credit Rate	Decrease	+2:-15	80%	80%	75%	75%
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	65%	65%	75%	75%
GASOLINE EURO-BOB OXY (ARGUS) NWE BARGES SWAP FUTURES (NY-7H - CME) vs GASOLINE EURO-BOB OXY (ARGUS) NWE BARGES CRACK SPREAD SWAP FUTURES (NY-7K - CME)						
Spread Credit Rate	Decrease	+3:-25	30%	30%	0%	0%
GASOLINE EURO-BOB OXY (ARGUS) NWE BARGES SWAP FUTURES (NY-7H - CME) vs OMAN CRUDE OIL (NY-OQ - CME)						
Spread Credit Rate	Decrease	+2:-15	80%	80%	70%	70%
GULF COAST ULSD (PLATTS) SWAP FUTURES (NY-LY - CME) vs BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME)						
Spread Credit Rate	Increase	+1:-1	60%	60%	70%	70%
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	60%	60%	70%	70%
GULF COAST ULSD (PLATTS) SWAP FUTURES (NY-LY - CME) vs BRENT CRUDE OIL PENULTIMATE FINANCIAL FUTURES (NY-BB - CME)						
Spread Credit Rate	Increase	+1:-1	60%	60%	70%	70%
GULF COAST ULSD (PLATTS) SWAP FUTURES (NY-LY - CME) vs CRUDE OIL FINANCIAL FUTURES (NY-WS - CME)						
Spread Credit Rate	Increase	+1:-1	50%	50%	70%	70%
GULF COAST ULSD (PLATTS) SWAP FUTURES (NY-LY - CME) vs CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-26 - CME)						
Spread Credit Rate	Increase	+1:-1	50%	50%	70%	70%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
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	60%	60%	70%	70%
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	60%	60%	70%	70%
GULF COAST ULSD (PLATTS) SWAP FUTURES (NY-LY - CME) vs LIGHT SWEET CRUDE OIL FUTURES (NY-CL - CME)						
Spread Credit Rate	Increase	+1:-1	50%	50%	70%	70%
GULF COAST ULSD (PLATTS) SWAP FUTURES (NY-LY - CME) vs WTI CALENDAR SWAP FUTURES (NY-CS - CME)						
Spread Credit Rate	Increase	+1:-1	50%	50%	70%	70%
HEATING OIL LAST DAY FINANCIAL FUTURES (NY-23 - CME) vs CRUDE OIL FINANCIAL FUTURES (NY-WS - CME)						
Spread Credit Rate	Increase	+1:-1	60%	60%	70%	70%
HEATING OIL LAST DAY FINANCIAL FUTURES (NY-23 - CME) vs CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-26 - CME)						
Spread Credit Rate	Increase	+1:-1	60%	60%	70%	70%
HEATING OIL LAST DAY FINANCIAL FUTURES (NY-23 - CME) vs LIGHT SWEET CRUDE OIL FUTURES (NY-CL - CME)						
Spread Credit Rate	Increase	+1:-1	60%	60%	70%	70%
HEATING OIL LAST DAY FINANCIAL FUTURES (NY-23 - CME) vs WTI CALENDAR SWAP FUTURES (NY-CS - CME)						
Spread Credit Rate	Increase	+1:-1	60%	60%	70%	70%
LIGHT SWEET CRUDE OIL FUTURES (NY-CL - CME) vs RBOB GASOLINE FINANCIAL FUTURES (NY-RT - CME)						
Spread Credit Rate	Decrease	+1:-1	72%	72%	70%	70%
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	50%	50%	70%	70%
LIGHT, SWEET CRUDE OIL FUTURES (NYM-CL, CS, WS) vs HEATING OIL FINANCIAL FUTURES (NYM-HO, BH, MP)						
Spread Credit Rate	Increase	+1:-1	60%	60%	70%	70%
MONT BELVIEU ISO-BUTANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-8I - CME) vs SINGAPORE GASOIL (PLATTS) SWAP FUTURES (NY-SG - CME)						
Spread Credit Rate	Decrease	+1:-1	55%	55%	40%	40%
MONT BELVIEU ISO-BUTANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-8I - CME) vs SINGAPORE JET KEROSENE (PLATTS) SWAP FUTURES (NY-KS - CME)						
Spread Credit Rate	Decrease	+1:-1	60%	60%	40%	40%
NEW YORK HARBOR RESIDUAL FUEL 1.0% (PLATTS) SWAP FUTURES (NY-MM - CME) vs BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME)						
Spread Credit Rate	Decrease	+1:-1	80%	80%	70%	70%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
NEW YORK HARBOR RESIDUAL FUEL 1.0% (PLATTS) SWAP FUTURES (NY-MM - CME) vs BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME)						
Spread Credit Rate	Decrease	+1:-1	80%	80%	70%	70%
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%	70%	70%
NY HARBOR RBOB GASOLINE (NYM-RB, RL, RT) vs LIGHT, SWEET CRUDE OIL FUTURES (NYM-CL, CS, WS)						
Spread Credit Rate	Decrease	+1:-1	72%	72%	70%	70%
Spread Credit Rate	Decrease	+1:-1	70%	70%	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	Increase	+19:-3	40%	40%	55%	55%
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	Increase	+19:-3	40%	40%	60%	60%
RBOB GASOLINE CALENDAR SWAP FUTURES (NY-RL - CME) vs BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME)						
Spread Credit Rate	Decrease	+1:-1	70%	70%	68%	68%
Spread Credit Rate	Decrease	+1:-1	75%	75%	72%	72%
RBOB GASOLINE CALENDAR SWAP FUTURES (NY-RL - CME) vs BRENT CRUDE OIL PENULTIMATE FINANCIAL FUTURES (NY-BB - CME)						
Spread Credit Rate	Decrease	+1:-1	70%	70%	68%	68%
Spread Credit Rate	Decrease	+1:-1	75%	75%	72%	72%
RBOB GASOLINE CALENDAR SWAP FUTURES (NY-RL - CME) vs LIGHT SWEET CRUDE OIL FUTURES (NY-CL - CME)						
Spread Credit Rate	Decrease	+1:-1	72%	72%	70%	70%
RBOB GASOLINE FUTURES (NY-RB - CME) vs WTI CALENDAR SWAP FUTURES (NY-CS - CME)						
Spread Credit Rate	Decrease	+1:-1	70%	70%	68%	68%
RBOB GASOLINE LAST DAY FINANCIAL FUTURES (NY-27 - CME) vs BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME)						
Spread Credit Rate	Decrease	+1:-1	70%	70%	68%	68%
Spread Credit Rate	Decrease	+1:-1	75%	75%	72%	72%
RBOB GASOLINE LAST DAY FINANCIAL FUTURES (NY-27 - CME) vs BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME)						
Spread Credit Rate	Decrease	+1:-1	75%	75%	72%	72%
Spread Credit Rate	Decrease	+1:-1	70%	70%	68%	68%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
RBOB GASOLINE LAST DAY FINANCIAL FUTURES (NY-27 - CME) vs BRENT CRUDE OIL PENULTIMATE FINANCIAL FUTURES (NY-BB - CME)						
Spread Credit Rate	Decrease	+1:-1	75%	75%	72%	72%
Spread Credit Rate	Decrease	+1:-1	70%	70%	68%	68%
WTI CALENDAR SWAP FUTURES (NY-CS - CME) vs GULF COAST ULSD (PLATTS) SWAP FUTURES (NY-LY - CME)						
Spread Credit Rate	Increase	+1:-1	50%	50%	70%	70%
WTI CALENDAR SWAP FUTURES (NY-CS - CME) vs GULF COAST ULSD (PLATTS) SWAP FUTURES (NY-LY - CME).						
Spread Credit Rate	Increase	+1:-1	50%	50%	70%	70%
WTI CALENDAR SWAP FUTURES (NY-CS - CME) vs HEATING OIL CALENDAR SWAP FUTURES (NY-MP - CME)						
Spread Credit Rate	Increase	+1:-1	60%	60%	70%	70%
WTI CALENDAR SWAP FUTURES (NY-CS - CME) vs NEW YORK HARBOR NO. 2 HEATING OIL FUTURES (NY-HO - CME)						
Spread Credit Rate	Increase	+1:-1	60%	60%	70%	70%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Tier Description	Change	Current Initial	Current Maintenance	New Initial	New Maintenance
Short Option Minimum (SOM) Rate						
ETHANOL - Short Option Minimum (SOM) Rate						
CHICAGO ETHANOL (PLATTS) CALENDAR SPREAD OPTION - ONE MONTH COMBO (1CE, CE1) - SOM						
Clearing Member Rate		New			27.500	25.000
CHICAGO ETHANOL (PLATTS) CALENDAR SPREAD OPTION - SIX MONTH COMBO (6CE, CE6) - SOM						
Clearing Member Rate		New			27.500	25.000
CHICAGO ETHANOL (PLATTS) CALENDAR SPREAD OPTION - THREE MONTH COMBO (3CE, CE3) - SOM						
Clearing Member Rate		New			27.500	25.000
CHICAGO ETHANOL (PLATTS) CALENDAR SPREAD OPTION - TWO MONTH COMBO (2CE, CE2) - SOM						
Clearing Member Rate		New			27.500	25.000
NATURAL GAS - Short Option Minimum (SOM) Rate						
LNG DES JAPAN (RIM) FUTURES (JNG) - SOM						
Clearing Member Rate		New			44.000	40.000

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Tier Description	Change	Current Initial	Current Maintenance	New Initial	New Maintenance
Volatility Scan (volScan) Rate						
ETHANOL - Volatility Scan (volScan) Rate						
CHICAGO ETHANOL (PLATTS) CALENDAR SPREAD OPTION - ONE MONTH COMBO (1CE, CE1) - volScan						
Clearing Member Rate	All Months	New				15.000%
CHICAGO ETHANOL (PLATTS) CALENDAR SPREAD OPTION - SIX MONTH COMBO (6CE, CE6) - volScan						
Clearing Member Rate	All Months	New				15.000%
CHICAGO ETHANOL (PLATTS) CALENDAR SPREAD OPTION - THREE MONTH COMBO (3CE, CE3) - volScan						
Clearing Member Rate	All Months	New				15.000%
CHICAGO ETHANOL (PLATTS) CALENDAR SPREAD OPTION - TWO MONTH COMBO (2CE, CE2) - volScan						
Clearing Member Rate	All Months	New				15.000%
NATURAL GAS - Volatility Scan (volScan) Rate						
LNG DES JAPAN (RIM) FUTURES (JNG) - volScan						
Clearing Member Rate		New				0.080

New Products - Splitting Methodology

CC	Name	Child Product	Child Product Name	Splitting Methodology
NY-1CE	CHICAGO ETHANOL (PLATTS) CALENDAR SPREAD OPTION - ONE MONTH COMBO	CE1	CHICAGO ETHANOL (PLATTS) CALENDAR SPREAD OPTION - ONE MONTH COMBO	Modified Split
NY-2CE	CHICAGO ETHANOL (PLATTS) CALENDAR SPREAD OPTION - TWO MONTH	CE2	CHICAGO ETHANOL (PLATTS) CALENDAR SPREAD OPTION - TWO MONTH	Modified Split
NY-3CE	CHICAGO ETHANOL (PLATTS) CALENDAR SPREAD OPTION - THREE MONTH	CE3	CHICAGO ETHANOL (PLATTS) CALENDAR SPREAD OPTION - THREE MONTH	Modified Split
NY-6CE	CHICAGO ETHANOL (PLATTS) CALENDAR SPREAD OPTION - SIX MONTH	CE6	CHICAGO ETHANOL (PLATTS) CALENDAR SPREAD OPTION - SIX MONTH	Modified Split