



14-318

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

FROM: CME Clearing

SUBJECT: Performance Bond Requirements

DATE: Thursday, August 14, 2014

***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, August 15, 2014.**

Current rates as of:

**Thursday, August 14, 2014.**

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Outright Rates</b>								
<b>NATURAL GAS - Outright Rates</b>								
<b>NGPL MIDCONTINENT BASIS FUT (NL)</b>								
NL	Spec	Mnths 13+	Increase	USD	187	170	220	200
NL	Hedge/Member	Mnths 13+	Increase	USD	170	170	200	200
<b>PETROLEUM CRACKS AND SPREADS - Outright Rates</b>								
<b>ARGS GSOLNE E-BOB OXY BARGES NWE CK (EOB)</b>								
EOB	Spec	Mnth 1	Increase	USD	18,326	16,660	21,075	19,159
EOB	Hedge/Member	Mnth 1	Increase	USD	16,660	16,660	19,159	19,159
EOB	Spec	Mnths 7+	Increase	USD	18,326	16,660	21,075	19,159
EOB	Hedge/Member	Mnths 7+	Increase	USD	16,660	16,660	19,159	19,159
<b>ARGS PRPANE FR EST VS EURO CIF ARA (91)</b>								
91	Spec	Mths 4+	Increase	USD	17,600	16,000	20,900	19,000
91	Hedge/Member	Mths 4+	Increase	USD	16,000	16,000	19,000	19,000
<b>GAS EURO-BOB OXY (ARG) CRACK (7K)</b>								
7K	Spec	Mnth 1	Increase	USD	2,200	2,000	2,530	2,300
7K	Hedge/Member	Mnth 1	Increase	USD	2,000	2,000	2,300	2,300
7K	Spec	Mnths 7+	Increase	USD	2,200	2,000	2,530	2,300
7K	Hedge/Member	Mnths 7+	Increase	USD	2,000	2,000	2,300	2,300
<b>SPORE MOGAS92 UNLD BRENT SPRD FUT (1NB)</b>								
1NB	Spec	Mnth 1	Increase	USD	1,650	1,500	1,870	1,700
1NB	Hedge/Member	Mnth 1	Increase	USD	1,500	1,500	1,700	1,700

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

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

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Intra Spreads</b>								
<b>ELECTRICITY - Intra Spreads</b>								
<b>AEP-Dayton Hub Peak Monthly Electricity Futures - Peak - All Months (AER-DAYTON HUB MONTHLY)</b>								
VM	Spec		Increase	USD	2,750	2,500	3,025	2,750
VM	Hedge/Member		Increase	USD	2,500	2,500	2,750	2,750
<b>CINERGY HUB 5 MW OFF-PEAK CALENDAR-MONTH REAL-TIME SWAP- All Months (MISO INDIANA HUB 5MW REAL TIME OFPK)</b>								
H4	Spec		Increase	USD	11	10	17	15
H4	Hedge/Member		Increase	USD	10	10	15	15
<b>ERCOT West 345 kV Hub 50 MW Peak Futures - All Months (ERCOT WEST 345 KV HUB MW PEAK FUT)</b>								
N1	Spec		Increase	USD	825	750	935	850
N1	Hedge/Member		Increase	USD	750	750	850	850
<b>Midwest ISO Indiana Hub 5 MW Off-Peak Calendar-Month Real-Time Swap Futures - All Months (MISO INDIANA HUB 5MW OFPK CAL MO RT)</b>								
FTM	Spec		Increase	USD	11	10	17	15
FTM	Hedge/Member		Increase	USD	10	10	15	15
<b>Midwest ISO Michigan Hub 5 MW Off-Peak Calendar-Month Day-Ahead Swap Futures - All Months (MISO MICHIGAN HUB OF-PK DA MONTHLY)</b>								
HMO	Spec		Increase	USD	11	10	17	15
HMO	Hedge/Member		Increase	USD	10	10	15	15
<b>Midwest ISO Michigan Hub 5 MW Peak Calendar-Month Day-Ahead Swap Futures - All Months (MIDWEST ISO MICHIGAN HUB 5MW PEAK C)</b>								
HMW	Spec		Increase	USD	83	75	165	150
HMW	Hedge/Member		Increase	USD	75	75	150	150
<b>MISO CINERGY HUB 5 MW OFF-PEAK DAY-AHEAD SWAP - All Months (MISO INDIANA HUB 5MW D AH O PK)</b>								
K2	Spec		Increase	USD	11	10	17	15
K2	Hedge/Member		Increase	USD	10	10	15	15
<b>NEPOOL INTER HUB 5MW DAY AHEAD PEAK - All Months (NEPOOL INTR HUB 5MW D AH PK)</b>								
U6	Spec		Increase	USD	275	250	330	300
U6	Hedge/Member		Increase	USD	250	250	300	300
<b>NEPOOL NE MASS 5 MW DAY AHEAD PEAK - All Months (NEPOOL NE MASS 5MW D AH PK)</b>								
P7	Spec		Increase	USD	275	250	330	300
P7	Hedge/Member		Increase	USD	250	250	300	300
<b>NEPOOL RHODE ISLAND 5MW DAY AHEAD PEAK - All Months (NEPOOL RHD ISLD 5MW D AH PK)</b>								
U4	Spec		Increase	USD	165	150	220	200
U4	Hedge/Member		Increase	USD	150	150	200	200

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Intra Spreads</b>								
<b>NYISO Zone A LBMP Swap - Off-Peak - All Months (NYISO A OFF-PEAK)</b>								
KB	Spec		Increase	USD	1,650	1,500	1,925	1,750
KB	Hedge/Member		Increase	USD	1,500	1,500	1,750	1,750
<b>NYISO Zone A LBMP Swap - Peak - All Months (NYISO A)</b>								
KA	Spec		Increase	USD	605	550	825	750
KA	Hedge/Member		Increase	USD	550	550	750	750
<b>NYISO Zone A LBMP Swap - Peak - All Months (NYISO ZONE A 5MW D AH PK)</b>								
K3	Spec		Increase	USD	121	110	165	150
K3	Hedge/Member		Increase	USD	110	110	150	150
<b>NYISO ZONE C 5 MW DAY AHEAD OFF PEAK - All Months (NYISO ZONE C 5MW D AH O PK)</b>								
A3	Spec		Increase	USD	17	15	22	20
A3	Hedge/Member		Increase	USD	15	15	20	20
<b>NYISO ZONE C 5MW DAY AHEAD PEAK - All Months (NYISO ZONE C 5MW D AH PK)</b>								
Q5	Spec		Increase	USD	330	300	660	600
Q5	Hedge/Member		Increase	USD	300	300	600	600
<b>NYISO ZONE E 5MW DAY AHEAD PEAK - All Months (NYISO ZONE E 5MW PK CAL MO FUT)</b>								
55	Spec		Increase	USD	220	200	275	250
55	Hedge/Member		Increase	USD	200	200	250	250
<b>NYISO Zone G LBMP Swap - Off-Peak - All Months (NYISO G OFF-PEAK)</b>								
KH	Spec		Increase	USD	3,025	2,750	3,850	3,500
KH	Hedge/Member		Increase	USD	2,750	2,750	3,500	3,500
<b>NYISO Zone G Peak Monthly Swap - All Months (NYISO G)</b>								
KG	Spec		Increase	USD	1,100	1,000	1,650	1,500
KG	Hedge/Member		Increase	USD	1,000	1,000	1,500	1,500
<b>NYISO Zone G Peak Monthly Swap - All Months (NYISO ZONE G 5MW D AH PK)</b>								
T3	Spec		Increase	USD	220	200	330	300
T3	Hedge/Member		Increase	USD	200	200	300	300
<b>NYISO Zone J LBMP Swap - Off-Peak - All Months (NYISO J OFF-PEAK)</b>								
KK	Spec		Increase	USD	2,200	2,000	2,750	2,500
KK	Hedge/Member		Increase	USD	2,000	2,000	2,500	2,500
<b>PJM AD HUB 5MW REAL TIME PEAK - All Months (PJM AD HUB 5MW REAL TIME PK)</b>								
Z9	Spec		Increase	USD	248	225	303	275
Z9	Hedge/Member		Increase	USD	225	225	275	275

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Intra Spreads</b>								
<b>PJM AECO Zone Peak Calendar-Month Day-Ahead LMP - All Months (PJM AECO DA PEAK)</b>								
Y1	Spec		Increase	USD	138	125	165	150
Y1	Hedge/Member		Increase	USD	125	125	150	150
<b>PJM AEP Dayton Hub Peak Calendar-Month Day-Ahead - All Months (PJM DAYTON DA PEAK)</b>								
D7	Spec		Increase	USD	220	200	330	300
D7	Hedge/Member		Increase	USD	200	200	300	300
<b>PJM BGE ZONE PEAK CALENDAR MONTH DAY AHEAD LMP - All Months (PJM BGE DA PEAK)</b>								
E3	Spec		Increase	USD	193	175	275	250
E3	Hedge/Member		Increase	USD	175	175	250	250
<b>PJM COM-ED 5MW DAY AHEAD OFF PEAK - All Months (PJM COMED 5MW D AH O PK)</b>								
D9	Spec		Increase	USD	3	3	11	10
D9	Hedge/Member		Increase	USD	3	3	10	10
<b>PJM Financially Settled Monthly Futures - Peak - All Months (PJM MONTHLY)</b>								
JM	Spec		Increase	USD	1,210	1,100	1,650	1,500
JM	Hedge/Member		Increase	USD	1,100	1,100	1,500	1,500
<b>PPL Zone Peak Calendar-Month Day-Ahead LMP - All Months (PJM PPL DA PEAK)</b>								
L5	Spec		Increase	USD	138	125	165	150
L5	Hedge/Member		Increase	USD	125	125	150	150
<b>INTEREST RATES - Intra Spreads</b>								
<b>10 Year Treasury Note (21) - All Months (10Y TREASURY NOTE FUTURES)</b>								
21	Spec		Decrease	USD	385	350	330	300
21	Hedge/Member		Decrease	USD	350	350	300	300
<b>5 Year Deliverable Swap Future (F1U) - All Months (5 YEAR USD INTEREST RATE SWAP)</b>								
F1U	Spec		Decrease	USD	275	250	220	200
F1U	Hedge/Member		Decrease	USD	250	250	200	200
<b>Fed Funds (CBOT) (41) - Tier 3 vs. Tier 3 [mth 5-12 vs. mth 5-12 ] (30 DAY FED FUND FUTURES)</b>								
41	Spec		Increase	USD	110	100	154	140
41	Hedge/Member		Increase	USD	100	100	140	140
<b>Fed Funds (CBOT) (41) - Tier 4 vs. Tier 5 [mth 13-24 vs. mth 25+] (30 DAY FED FUND FUTURES)</b>								
41	Spec		Decrease	USD	275	250	193	175
41	Hedge/Member		Decrease	USD	250	250	175	175

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Inter-commodity Spread Rates</b>						
<b>COAL - Inter-commodity Spread Rates</b>						
<b>AUSTRALIAN COKING COAL (PLATTS) LOW VOL SWAP FUTURES (NY-ALW - CME) vs IRON ORE FUTURES (NY-TIO - CME)</b>						
Spread Credit Rate	New	+1:-2			25%	25%
<b>AUSTRALIAN COKING COAL (PLATTS) LOW VOL SWAP FUTURES (NY-ALW - CME) vs IRON ORE(PLATTS) SWAP FUTURE (NY-PIO - CME)</b>						
Spread Credit Rate	New	+1:-1			25%	25%
<b>CENTRAL APPALACHIAN COAL FUTURES (NY-QL - CME) vs IRON ORE FUTURES (NY-TIO - CME)</b>						
Spread Credit Rate	New	+3:-1			25%	25%
<b>COAL (API 5) FOB NEWCASTLE (ARGUS/MCCLOSKEY) FUTURES (NY-ACM - CME) vs IRON ORE FUTURES (NY-TIO - CME)</b>						
Spread Credit Rate	New	+1:-1			40%	40%
<b>COAL (API 5) FOB NEWCASTLE (ARGUS/MCCLOSKEY) FUTURES (NY-ACM - CME) vs IRON ORE(PLATTS) SWAP FUTURE (NY-PIO - CME)</b>						
Spread Credit Rate	New	+2:-1			40%	40%
<b>COAL (API 6) FOB NEWCASTLE (ARGUS/MCCLOSKEY) SWAP FUTURES (NY-NCL - CME) vs IRON ORE FUTURES (NY-TIO - CME)</b>						
Spread Credit Rate	New	+2:-1			40%	40%
<b>COAL (API 6) FOB NEWCASTLE (ARGUS/MCCLOSKEY) SWAP FUTURES (NY-NCL - CME) vs IRON ORE(PLATTS) SWAP FUTURE (NY-PIO - CME)</b>						
Spread Credit Rate	New	+2:-1			40%	40%
<b>HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs POWDER RIVER BASIN COAL (PLATTS OTC BROKER INDEX) SWAP FUTURES (NY-QP - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	20%	20%	0%	0%
<b>INDONESIAN COAL (MCCLOSKEY SUB-BITUMINOUS 6,000 KCAL BASIS) SWAP FUTURES (NY-MC6 - CME) vs IRON ORE FUTURES (NY-TIO - CME)</b>						
Spread Credit Rate	New	+2:-1			25%	25%
<b>INDONESIAN COAL (MCCLOSKEY SUB-BITUMINOUS 6,000 KCAL BASIS) SWAP FUTURES (NY-MC6 - CME) vs IRON ORE(PLATTS) SWAP FUTURE (NY-PIO - CME)</b>						
Spread Credit Rate	New	+2:-1			25%	25%
<b>INDONESIAN COAL (MCCLOSKEY SUB-BITUMINOUS) SWAP FUTURES (NY-MCC - CME) vs IRON ORE FUTURES (NY-TIO - CME)</b>						
Spread Credit Rate	New	+2:-1			25%	25%
<b>INDONESIAN COAL (MCCLOSKEY SUB-BITUMINOUS) SWAP FUTURES (NY-MCC - CME) vs IRON ORE(PLATTS) SWAP FUTURE (NY-PIO - CME)</b>						
Spread Credit Rate	New	+2:-1			25%	25%
<b>IRON ORE(PLATTS) SWAP FUTURE (NY-PIO - CME) vs CENTRAL APPALACHIAN COAL FUTURES (NY-QL - CME)</b>						
Spread Credit Rate	New	+1:-3			25%	25%

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Inter-commodity Spread Rates</b>						
<b>CRUDE OIL - Inter-commodity Spread Rates</b>						
<b>BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME) vs EUROPEAN 3.5% FUEL OIL (PLATTS) BARGES FOB RDAM CALENDAR SWAP FUTURES (NY-UV - CME)</b>						
Spread Credit Rate	Increase	+19:-3	60%	60%	80%	80%
<b>BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME) vs EUROPEAN 3.5% FUEL OIL (PLATTS) BARGES FOB RDAM CALENDAR SWAP FUTURES (NY-UV - CME).</b>						
Spread Credit Rate	Increase	+19:-3	60%	60%	80%	80%
<b>BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME) vs HEATING OIL CALENDAR SWAP FUTURES (NY-MP - CME)</b>						
Spread Credit Rate	Increase	+1:-1	55%	55%	65%	65%
<b>BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME) vs HEATING OIL FINANCIAL FUTURES (NY-BH - CME)</b>						
Spread Credit Rate	Increase	+1:-1	50%	50%	65%	65%
<b>BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME) vs HEATING OIL LAST DAY FINANCIAL FUTURES (NY-23 - CME)</b>						
Spread Credit Rate	Increase	+1:-1	50%	50%	65%	65%
<b>BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME) vs NEW YORK HARBOR NO. 2 HEATING OIL FUTURES (NY-HO - CME)</b>						
Spread Credit Rate	Increase	+1:-1	50%	50%	65%	65%
<b>BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME) vs SINGAPORE NAPHTHA (PLATTS) SWAP FUTURES (NY-SP - CME)</b>						
Spread Credit Rate	Increase	+1:-1	45%	45%	75%	75%
<b>BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME) vs SINGAPORE NAPHTHA (PLATTS) SWAP FUTURES (NY-SP - CME).</b>						
Spread Credit Rate	Increase	+1:-1	45%	45%	75%	75%
<b>BRENT CRUDE OIL BULLET SWAP FINANCIAL (NYM-BB, BZ, CY) vs EUROPEAN 3.5% FUEL OIL ROTTERDAM BALMO CALENDAR SWAP (NYM-UV - CME)</b>						
Spread Credit Rate	Increase	+19:-3	60%	60%	80%	80%
<b>BRENT CRUDE OIL BULLET SWAP FINANCIAL (NYM-BB, BZ, CY) vs HEATING OIL (NYM-HO, BH, MP)</b>						
Spread Credit Rate	Increase	+1:-1	50%	50%	65%	65%
<b>BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME) vs EUROPEAN 3.5% FUEL OIL (PLATTS) BARGES FOB RDAM CALENDAR SWAP FUTURES (NY-UV - CME)</b>						
Spread Credit Rate	Increase	+19:-3	60%	60%	80%	80%
<b>BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME) vs HEATING OIL FINANCIAL FUTURES (NY-BH - CME)</b>						
Spread Credit Rate	Increase	+1:-1	55%	55%	65%	65%
<b>BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME) vs HEATING OIL LAST DAY FINANCIAL FUTURES (NY-23 - CME)</b>						
Spread Credit Rate	Increase	+1:-1	50%	50%	65%	65%



## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Inter-commodity Spread Rates</b>						
<b>BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME) vs NEW YORK HARBOR NO. 2 HEATING OIL FUTURES (NY-HO - CME)</b>						
Spread Credit Rate	Increase	+1:-1	50%	50%	65%	65%
<b>BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME) vs NY 3.0% FUEL OIL (PLATTS) SWAP FUTURES (NY-H1 - CME)</b>						
Spread Credit Rate	Increase	+1:-1	55%	55%	70%	70%
<b>BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME) vs SINGAPORE NAPHTHA (PLATTS) SWAP FUTURES (NY-SP - CME)</b>						
Spread Credit Rate	Increase	+1:-1	45%	45%	75%	75%
<b>BRENT CRUDE OIL PENULTIMATE FINANCIAL FUTURES (NY-BB - CME) vs HEATING OIL FINANCIAL FUTURES (NY-BH - CME)</b>						
Spread Credit Rate	Increase	+1:-1	50%	50%	65%	65%
<b>BRENT CRUDE OIL PENULTIMATE FINANCIAL FUTURES (NY-BB - CME) vs HEATING OIL LAST DAY FINANCIAL FUTURES (NY-23 - CME)</b>						
Spread Credit Rate	Increase	+1:-1	50%	50%	65%	65%
<b>BRENT CRUDE OIL PENULTIMATE FINANCIAL FUTURES (NY-BB - CME) vs NY 3.0% FUEL OIL (PLATTS) SWAP FUTURES (NY-H1 - CME)</b>						
Spread Credit Rate	Increase	+1:-1	55%	55%	70%	70%
<b>BRENT CRUDE OIL PENULTIMATE FINANCIAL FUTURES (NY-BB - CME) vs SINGAPORE NAPHTHA (PLATTS) SWAP FUTURES (NY-SP - CME)</b>						
Spread Credit Rate	Increase	+1:-1	45%	45%	75%	75%
<b>BRENT CRUDE OIL PENULTIMATE FINANCIAL FUTURES (NY-BB, BZ, CY) vs GASOIL 0.1 (PLATTS) CARGOES FOB NWE SWAP FUTURES (NY-WR - CME)</b>						
Spread Credit Rate	Increase	+15:-2	50%	50%	70%	70%
<b>CRUDE OIL FINANCIAL FUTURES (NY-WS - CME) vs EUROPEAN 3.5% FUEL OIL (PLATTS) CARGOES FOB MED CALENDAR SWAP FUTURES (NY-UI - CME)</b>						
Spread Credit Rate	Decrease	+33:-5	65%	65%	55%	55%
<b>CRUDE OIL FINANCIAL FUTURES (NY-WS - CME) vs NY 3.0% FUEL OIL (PLATTS) SWAP FUTURES (NY-H1 - CME)</b>						
Spread Credit Rate	Increase	+1:-1	50%	50%	65%	65%
<b>CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-26 - CME) vs EUROPEAN 3.5% FUEL OIL (PLATTS) CARGOES FOB MED CALENDAR SWAP FUTURES (NY-UI - CME)</b>						
Spread Credit Rate	Decrease	+33:-5	65%	65%	55%	55%
<b>CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-26 - CME) vs NY 3.0% FUEL OIL (PLATTS) SWAP FUTURES (NY-H1 - CME)</b>						
Spread Credit Rate	Increase	+1:-1	50%	50%	65%	65%
<b>DATED BRENT (PLATTS) CALENDAR SWAP FUTURES (NY-UB - CME) vs RBOB GASOLINE CALENDAR SWAP FUTURES (NY-RL - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	80%	80%	65%	65%

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Inter-commodity Spread Rates</b>						
<b>DATED BRENT (PLATTS) CALENDAR SWAP FUTURES (NY-UB - CME) vs RBOB GASOLINE FINANCIAL FUTURES (NY-RT - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	80%	80%	65%	65%
<b>DATED BRENT (PLATTS) CALENDAR SWAP FUTURES (NY-UB - CME) vs RBOB GASOLINE FUTURES (NY-RB - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	75%	75%	65%	65%
<b>DATED BRENT (PLATTS) CALENDAR SWAP FUTURES (NY-UB - CME) vs RBOB GASOLINE LAST DAY FINANCIAL FUTURES (NY-27 - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	80%	80%	65%	65%
<b>DME OMAN CRUDE OIL SWAP FUTURES (NY-DOO - CME) vs SINGAPORE MOGAS 92 UNLEADED (PLATTS) SWAP FUTURES (NY-1N - CME)</b>						
Spread Credit Rate	Increase	+1:-1	60%	60%	65%	65%
<b>EIA FLAT TAX ON-HIGHWAY DIESEL SWAP FUTURES (NY-A5 - CME) vs DATED BRENT (PLATTS) CALENDAR SWAP FUTURES (NY-UB - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	80%	80%	70%	70%
<b>EUROPEAN 1% FUEL OIL (PLATTS) BARGES FOB RDAM CALENDAR SWAP FUTURES (NY-UH - CME) vs LIGHT SWEET CRUDE OIL FUTURES (NY-CL - CME)</b>						
Spread Credit Rate	Decrease	+5:-33	70%	70%	60%	60%
<b>EUROPEAN 1% FUEL OIL (PLATTS) BARGES FOB RDAM CALENDAR SWAP FUTURES (NY-UH - CME) vs WTI CALENDAR SWAP FUTURES (NY-CS - CME)</b>						
Spread Credit Rate	Decrease	+5:-33	70%	70%	60%	60%
<b>EUROPEAN 1% FUEL OIL (PLATTS) BARGES FOB RDAM CALENDAR SWAP FUTURES (NY-UH - CME) vs WTI CALENDAR SWAP FUTURES (NY-CS - CME).</b>						
Spread Credit Rate	Decrease	+5:-33	70%	70%	60%	60%
<b>EUROPEAN 1% FUEL OIL (PLATTS) CARGOES FOB NWE CALENDAR SWAP FUTURES (NY-UF - CME) vs DATED BRENT (PLATTS) CALENDAR SWAP FUTURES (NY-UB - CME)</b>						
Spread Credit Rate	Decrease	+19:-3	75%	75%	65%	65%
<b>EUROPEAN 3.5% FUEL OIL (PLATTS) CARGOES FOB MED CALENDAR SWAP FUTURES (NY-UI - CME) vs WTI CALENDAR SWAP FUTURES (NY-CS - CME)</b>						
Spread Credit Rate	Decrease	+5:-33	65%	65%	55%	55%
<b>EUROPEAN 3.5% FUEL OIL (PLATTS) CARGOES FOB MED CALENDAR SWAP FUTURES (NY-UI - CME) vs WTI CALENDAR SWAP FUTURES (NY-CS - CME).</b>						
Spread Credit Rate	Decrease	+5:-33	65%	65%	55%	55%
<b>EUROPEAN 3.5% FUEL OIL MED CALENDAR SWAP (MEDITERR (NYM-UI - CME) vs LIGHT, SWEET CRUDE OIL FUTURES (NYM-CL, CS, WS)</b>						
Spread Credit Rate	Decrease	+5:-33	65%	65%	55%	55%
<b>EUROPEAN JET KEROSENE (PLATTS) CARGOES CIF NWE CALENDAR SWAP FUTURES (NY-UJ - CME) vs DME OMAN CRUDE OIL SWAP FUTURES (NY-DOO - CME)</b>						
Spread Credit Rate	Decrease	+2:-15	70%	70%	65%	65%

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Inter-commodity Spread Rates</b>						
<b>EUROPEAN JET KEROSENE (PLATTS) CARGOES CIF NWE CALENDAR SWAP FUTURES (NY-UJ - CME) vs OMAN CRUDE OIL (NY-OQ - CME)</b>						
Spread Credit Rate	Increase	+2:-15	50%	50%	65%	65%
<b>EUROPEAN NAPHTHA (PLATTS) CALENDAR SWAP FUTURES (NY-UN - CME) vs DATED BRENT (PLATTS) CALENDAR SWAP FUTURES (NY-UB - CME)</b>						
Spread Credit Rate	Decrease	+1:-9	75%	75%	60%	60%
<b>JAPAN C&amp;F NAPHTHA (PLATTS) SWAP FUTURES (NY-JA - CME) vs DATED BRENT (PLATTS) CALENDAR SWAP FUTURES (NY-UB - CME)</b>						
Spread Credit Rate	Decrease	+1:-9	75%	75%	60%	60%
<b>LIGHT SWEET CRUDE OIL FUTURES (NY-CL - CME) vs EUROPEAN 1% FUEL OIL (PLATTS) CARGOES FOB NWE CALENDAR SWAP FUTURES (NY-UF - CME)</b>						
Spread Credit Rate	Decrease	+33:-5	70%	70%	60%	60%
<b>LIGHT SWEET CRUDE OIL FUTURES (NY-CL, CS, WS) vs NY HEATING OIL (PLATTS) SWAP FUTURES (NY-YF - CME)</b>						
Spread Credit Rate	Increase	+1:-1	40%	40%	70%	70%
<b>LIGHT SWEET CRUDE OIL FUTURES (NY-CL, CS, WS) vs NY ULSD (PLATTS) SWAP FUTURES (NY-YS - CME)</b>						
Spread Credit Rate	Increase	+1:-1	50%	50%	70%	70%
<b>LIGHT, SWEET CRUDE OIL FUTURES (NYM-CL, CS, WS) vs NEW YORK 3.0% FUEL OIL (PLATTS) SWAP (NYM-H1 - CME)</b>						
Spread Credit Rate	Increase	+1:-1	50%	50%	65%	65%
<b>LLS (ARGUS) CALENDAR SWAP FUTURES (NY-XA - CME) vs GULF COAST NO. 6 FUEL OIL 3.0% (PLATTS) SWAP FUTURES (NY-MF - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	60%	60%	50%	50%
<b>NY 3.0% FUEL OIL (PLATTS) SWAP FUTURES (NY-H1 - CME) vs BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME)</b>						
Spread Credit Rate	Increase	+1:-1	55%	55%	70%	70%
<b>NY 3.0% FUEL OIL (PLATTS) SWAP FUTURES (NY-H1 - CME) vs DME OMAN CRUDE OIL SWAP FUTURES (NY-DOO - CME)</b>						
Spread Credit Rate	Increase	+1:-1	50%	50%	80%	80%
<b>NY 3.0% FUEL OIL (PLATTS) SWAP FUTURES (NY-H1 - CME) vs OMAN CRUDE OIL (NY-OQ - CME)</b>						
Spread Credit Rate	Increase	+1:-1	65%	65%	80%	80%
<b>OMAN CRUDE OIL (NY-OQ - CME) vs SINGAPORE MOGAS 92 UNLEADED (PLATTS) SWAP FUTURES (NY-1N - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	75%	75%	65%	65%
<b>OMAN CRUDE OIL (NY-OQ - CME) vs SINGAPORE NAPHTHA (PLATTS) SWAP FUTURES (NY-SP - CME)</b>						
Spread Credit Rate	Increase	+1:-1	45%	45%	70%	70%
<b>SINGAPORE MOGAS 92 UNLEADED (PLATTS) SWAP FUTURES (NY-1N - CME) vs BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	75%	75%	65%	65%

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Inter-commodity Spread Rates</b>						
<b>SINGAPORE MOGAS 92 UNLEADED (PLATTS) SWAP FUTURES (NY-1N - CME) vs BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	75%	75%	65%	65%
<b>SINGAPORE MOGAS 92 UNLEADED (PLATTS) SWAP FUTURES (NY-1N - CME) vs BRENT CRUDE OIL PENULTIMATE FINANCIAL FUTURES (NY-BB - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	75%	75%	65%	65%
<b>SINGAPORE MOGAS 92 UNLEADED (PLATTS) SWAP FUTURES (NY-1N - CME) vs DME OMAN CRUDE OIL SWAP FUTURES (NY-DOO - CME)</b>						
Spread Credit Rate	Increase	+1:-1	60%	60%	65%	65%
<b>SINGAPORE MOGAS 92 UNLEADED (PLATTS) SWAP FUTURES (NY-1N - CME) vs DUBAI CRUDE OIL (PLATTS) CALENDAR SWAP FUTURES (NY-DC - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	70%	70%	60%	60%
<b>SINGAPORE MOGAS 95 UNLEADED (PLATTS) SWAP FUTURES (NY-V0 - CME) vs BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME)</b>						
Spread Credit Rate	New	+1:-1			65%	65%
<b>SINGAPORE MOGAS 95 UNLEADED (PLATTS) SWAP FUTURES (NY-V0 - CME) vs BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME)</b>						
Spread Credit Rate	New	+1:-1			65%	65%
<b>SINGAPORE MOGAS 95 UNLEADED (PLATTS) SWAP FUTURES (NY-V0 - CME) vs BRENT CRUDE OIL PENULTIMATE FINANCIAL FUTURES (NY-BB - CME)</b>						
Spread Credit Rate	New	+1:-1			65%	65%
<b>SINGAPORE MOGAS 95 UNLEADED (PLATTS) SWAP FUTURES (NY-V0 - CME) vs CRUDE OIL FINANCIAL FUTURES (NY-WS - CME)</b>						
Spread Credit Rate	New	+1:-1			65%	65%
<b>SINGAPORE MOGAS 95 UNLEADED (PLATTS) SWAP FUTURES (NY-V0 - CME) vs CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-26 - CME)</b>						
Spread Credit Rate	New	+1:-1			65%	65%
<b>SINGAPORE MOGAS 95 UNLEADED (PLATTS) SWAP FUTURES (NY-V0 - CME) vs LIGHT SWEET CRUDE OIL FUTURES (NY-CL - CME)</b>						
Spread Credit Rate	New	+1:-1			65%	65%
<b>SINGAPORE MOGAS 95 UNLEADED (PLATTS) SWAP FUTURES (NY-V0 - CME) vs LLS (ARGUS) CALENDAR SWAP FUTURES (NY-XA - CME)</b>						
Spread Credit Rate	New	+1:-1			50%	50%
<b>SINGAPORE MOGAS 95 UNLEADED (PLATTS) SWAP FUTURES (NY-V0 - CME) vs WTI CALENDAR SWAP FUTURES (NY-CS - CME)</b>						
Spread Credit Rate	New	+1:-1			65%	65%
<b>SINGAPORE NAPHTHA (PLATTS) SWAP FUTURES (NY-SP - CME) vs DME OMAN CRUDE OIL SWAP FUTURES (NY-DOO - CME)</b>						
Spread Credit Rate	Increase	+1:-1	55%	55%	70%	70%

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Inter-commodity Spread Rates</b>						
<b>UB vs. EFM (UB - Dated Brent (Platts) Financial Futures, EFM - European 1% Fuel Oil Cargoes FOB MED (Platts) Futures)</b>						
Spread Credit Rate	Increase	+19:-3	40%	40%	60%	60%
<b>WTI CALENDAR SWAP FUTURES (NY-CS - CME) vs EUROPEAN 1% FUEL OIL (PLATTS) CARGOES FOB NWE CALENDAR SWAP FUTURES (NY-UF - CME)</b>						
Spread Credit Rate	Decrease	+33:-5	70%	70%	60%	60%
<b>WTI CALENDAR SWAP FUTURES (NY-CS - CME) vs EUROPEAN 1% FUEL OIL (PLATTS) CARGOES FOB NWE CALENDAR SWAP FUTURES (NY-UF - CME).</b>						
Spread Credit Rate	Decrease	+33:-5	70%	70%	60%	60%
<b>WTI CALENDAR SWAP FUTURES (NY-CS - CME) vs NY 3.0% FUEL OIL (PLATTS) SWAP FUTURES (NY-H1 - CME)</b>						
Spread Credit Rate	Increase	+1:-1	50%	50%	65%	65%
<b>WTI CALENDAR SWAP FUTURES (NY-CS - CME) vs NY HEATING OIL (PLATTS) SWAP FUTURES (NY-YF - CME)</b>						
Spread Credit Rate	Increase	+1:-1	40%	40%	70%	70%
<b>WTI CALENDAR SWAP FUTURES (NY-CS - CME) vs NY HEATING OIL (PLATTS) SWAP FUTURES (NY-YF - CME).</b>						
Spread Credit Rate	Increase	+1:-1	40%	40%	70%	70%
<b>WTI CALENDAR SWAP FUTURES (NY-CS - CME) vs NY ULSD (PLATTS) SWAP FUTURES (NY-YS - CME)</b>						
Spread Credit Rate	Increase	+1:-1	50%	50%	70%	70%
<b>WTI CALENDAR SWAP FUTURES (NY-CS - CME) vs NY ULSD (PLATTS) SWAP FUTURES (NY-YS - CME).</b>						
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
<b>Inter-commodity Spread Rates</b>						
<b>ELECTRICITY - Inter-commodity Spread Rates</b>						
<b>HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs ISO NEW ENGLAND CONNECTICUT ZONE 5 MW PEAK CALENDAR-MONTH DAY-AHEAD LMP SWAP FUTURES (NY-P2 - CME)</b>						
Spread Credit Rate	Increase	+1:-11	0%	0%	30%	30%
<b>HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs MIDWEST ISO CINERGY HUB 5 MW PEAK CALENDAR-MONTH DAY-AHEAD SWAP FUTURES (NY-H5 - CME)</b>						
Spread Credit Rate	Increase	+1:-11	30%	30%	45%	45%
<b>HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs NYISO ZONE A 5 MW OFF-PEAK CALENDAR-MONTH DAY-AHEAD LBMP SWAP FUTURES (NY-K4 - CME)</b>						
Spread Credit Rate	Increase	+1:-194	0%	0%	40%	40%
<b>HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs NYISO ZONE C 5 MW PEAK CALENDAR-MONTH DAY-AHEAD LBMP SWAP FUTURES (NY-Q5 - CME)</b>						
Spread Credit Rate	Increase	+1:-11	15%	15%	25%	25%
<b>HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs PALO VERDE DAY-AHEAD PEAK CALENDAR-MONTH 5 MW FUTURES (NY-PVD - CME)</b>						
Spread Credit Rate	New	+1:-11			30%	30%
<b>HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs PJM APS ZONE OFF-PEAK CALENDAR-MONTH DAY-AHEAD LMP SWAP FUTURES (NY-W4 - CME)</b>						
Spread Credit Rate	Increase	+1:-194	30%	30%	45%	45%
<b>HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs PJM APS ZONE PEAK CALENDAR-MONTH DAY-AHEAD LMP SWAP FUTURES (NY-S4 - CME)</b>						
Spread Credit Rate	Increase	+1:-11	30%	30%	40%	40%
<b>HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs PJM BGE ZONE OFF-PEAK CALENDAR-MONTH DAY-AHEAD LMP SWAP FUTURES (NY-R3 - CME)</b>						
Spread Credit Rate	Increase	+1:-194	30%	30%	60%	60%
<b>HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs PJM BGE ZONE PEAK CALENDAR-MONTH DAY-AHEAD LMP SWAP FUTURES (NY-E3 - CME)</b>						
Spread Credit Rate	Increase	+1:-11	0%	0%	30%	30%
<b>HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs PJM JCPL ZONE OFF-PEAK CALENDAR-MONTH DAY-AHEAD LMP SWAP FUTURES (NY-F2 - CME)</b>						
Spread Credit Rate	Increase	+1:-194	60%	60%	70%	70%
<b>HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs PJM JCPL ZONE PEAK CALENDAR-MONTH DAY-AHEAD LMP SWAP FUTURES (NY-J2 - CME)</b>						
Spread Credit Rate	Increase	+1:-11	30%	30%	50%	50%
<b>HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs PJM PEAK CALENDAR-MONTH LMP SWAP FUTURES (NY-JM - CME)</b>						
Spread Credit Rate	Increase	+1:-1	25%	25%	35%	35%
<b>HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs PJM PECO ZONE 5 MW OFF-PEAK CALENDAR-MONTH DAY-AHEAD LMP SWAP FUTURES (NY-4P - CME)</b>						
Spread Credit Rate	Increase	+1:-194	35%	35%	50%	50%

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Inter-commodity Spread Rates</b>						
<b>HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs PJM PECO ZONE 5 MW PEAK CALENDAR-MONTH DAY-AHEAD LMP SWAP FUTURES (NY-4N - CME)</b>						
Spread Credit Rate	Increase	+1:-11	0%	0%	35%	35%
<b>HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs PJM PPL ZONE PEAK CALENDAR-MONTH DAY-AHEAD LMP SWAP FUTURES (NY-L5 - CME)</b>						
Spread Credit Rate	Increase	+1:-11	0%	0%	40%	40%
<b>HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs PJM WESTERN HUB PEAK CALENDAR-MONTH DAY-AHEAD LMP SWAP FUTURES (NY-J4 - CME)</b>						
Spread Credit Rate	Decrease	+1:-11	45%	45%	25%	25%
<b>MIDWEST ISO CINERGY HUB 5 MW PEAK CALENDAR-MONTH REAL-TIME SWAP FUTURES (NY-H3 - CME) vs HENRY HUB NATURAL GAS FUTURES (NY-NG - CME)</b>						
Spread Credit Rate	Increase	-11:+1	30%	30%	45%	45%
<b>NYISO ZONE J PEAK LBMP SWAP FUTURES (NY-KJ - CME) vs HENRY HUB NATURAL GAS FUTURES (NY-NG - CME)</b>						
Spread Credit Rate	Increase	+2:-1	10%	10%	30%	30%
<b>PJM PSEG ZONE OFF-PEAK CALENDAR-MONTH DAY-AHEAD LMP SWAP (NYM-W6 - CME) vs HENRY HUB NATURAL GAS (NYM-NG, NN, HP)</b>						
Spread Credit Rate	Increase	-194:+1	30%	30%	55%	55%
<b>PJM WESTERN HUB OFF-PEAK CALENDAR-MONTH DAY-AHEAD LMP SWAP (NYM-E4 - CME) vs HENRY HUB NATURAL GAS (NYM-NG, NN, HP)</b>						
Spread Credit Rate	Increase	+194:-1	0%	0%	25%	25%
<b>PJM WESTERN HUB PEAK CALENDAR-MONTH DAY-AHEAD LMP SWAP FUTURES (NY-J4 - CME) vs HENRY HUB NATURAL GAS FUTURES (NY-NG - CME)</b>						
Spread Credit Rate	Increase	-11:+1	0%	0%	25%	25%
<b>ETHANOL - Inter-commodity Spread Rates</b>						
<b>GULF COAST UNL 87 (PLATTS) CALENDAR SWAP FUTURES (NY-GS - CME) vs CHICAGO ETHANOL (PLATTS) SWAP FUTURES (NY-CU - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	25%	25%	0%	0%
<b>RBOB GASOLINE FUTURES (NY-RB - CME) vs CHICAGO ETHANOL (PLATTS) SWAP FUTURES (NY-CU - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	30%	30%	0%	0%
<b>RBOB GASOLINE FUTURES (NY-RB - CME) vs ETHANOL (EH - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	30%	30%	0%	0%
<b>RBOB GASOLINE FUTURES (NY-RB, RL, RT) vs NY ETHANOL (PLATTS) SWAP FUTURES (NY-EZ - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	30%	30%	0%	0%
<b>FREIGHT - Inter-commodity Spread Rates</b>						
<b>PANAMAX TIMECHARTER AVERAGE (BALTIC) SWAP FUTURES (NY-PFU - CME) vs GULF COAST JET FUEL (PLATTS) CALENDAR SWAP FUTURES (NY-GE - CME)</b>						
Spread Credit Rate	New	+2:-15			30%	30%

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Inter-commodity Spread Rates</b>						
<b>METALS - Inter-commodity Spread Rates</b>						
<b>AUSTRALIAN COKING COAL (PLATTS) LOW VOL SWAP FUTURES (NY-ALW - CME) vs IRON ORE FUTURES (NY-TIO - CME)</b>						
Spread Credit Rate	New	+1:-2			25%	25%
<b>AUSTRALIAN COKING COAL (PLATTS) LOW VOL SWAP FUTURES (NY-ALW - CME) vs IRON ORE(PLATTS) SWAP FUTURE (NY-PIO - CME)</b>						
Spread Credit Rate	New	+1:-1			25%	25%
<b>CENTRAL APPALACHIAN COAL FUTURES (NY-QL - CME) vs IRON ORE FUTURES (NY-TIO - CME)</b>						
Spread Credit Rate	New	+3:-1			25%	25%
<b>COAL (API 5) FOB NEWCASTLE (ARGUS/MCCLOSKEY) FUTURES (NY-ACM - CME) vs IRON ORE FUTURES (NY-TIO - CME)</b>						
Spread Credit Rate	New	+1:-1			40%	40%
<b>COAL (API 5) FOB NEWCASTLE (ARGUS/MCCLOSKEY) FUTURES (NY-ACM - CME) vs IRON ORE(PLATTS) SWAP FUTURE (NY-PIO - CME)</b>						
Spread Credit Rate	New	+2:-1			40%	40%
<b>COAL (API 6) FOB NEWCASTLE (ARGUS/MCCLOSKEY) SWAP FUTURES (NY-NCL - CME) vs IRON ORE FUTURES (NY-TIO - CME)</b>						
Spread Credit Rate	New	+2:-1			40%	40%
<b>COAL (API 6) FOB NEWCASTLE (ARGUS/MCCLOSKEY) SWAP FUTURES (NY-NCL - CME) vs IRON ORE(PLATTS) SWAP FUTURE (NY-PIO - CME)</b>						
Spread Credit Rate	New	+2:-1			40%	40%
<b>INDONESIAN COAL (MCCLOSKEY SUB-BITUMINOUS 6,000 KCAL BASIS) SWAP FUTURES (NY-MC6 - CME) vs IRON ORE FUTURES (NY-TIO - CME)</b>						
Spread Credit Rate	New	+2:-1			25%	25%
<b>INDONESIAN COAL (MCCLOSKEY SUB-BITUMINOUS 6,000 KCAL BASIS) SWAP FUTURES (NY-MC6 - CME) vs IRON ORE(PLATTS) SWAP FUTURE (NY-PIO - CME)</b>						
Spread Credit Rate	New	+2:-1			25%	25%
<b>INDONESIAN COAL (MCCLOSKEY SUB-BITUMINOUS) SWAP FUTURES (NY-MCC - CME) vs IRON ORE FUTURES (NY-TIO - CME)</b>						
Spread Credit Rate	New	+2:-1			25%	25%
<b>INDONESIAN COAL (MCCLOSKEY SUB-BITUMINOUS) SWAP FUTURES (NY-MCC - CME) vs IRON ORE(PLATTS) SWAP FUTURE (NY-PIO - CME)</b>						
Spread Credit Rate	New	+2:-1			25%	25%
<b>IRON ORE(PLATTS) SWAP FUTURE (NY-PIO - CME) vs CENTRAL APPALACHIAN COAL FUTURES (NY-QL - CME)</b>						
Spread Credit Rate	New	+1:-3			25%	25%



## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Inter-commodity Spread Rates</b>						
<b>NATURAL GAS - Inter-commodity Spread Rates</b>						
<b>CHICAGO BASIS SWAP (PLATTS IFERC) FUTURES (NY-NB - CME) vs MICHCON BASIS SWAP (PLATTS IFERC) FUTURES (NY-NF - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	55%	55%	30%	30%
<b>COLUMBIA GAS TCO (PLATTS IFERC) FIXED PRICE SWAP FUTURES (NY-CFS - CME) vs HENRY HUB NATURAL GAS FUTURES (NY-NG - CME)</b>						
Spread Credit Rate	Increase	-4:+1	80%	80%	85%	85%
<b>HENRY HUB (PLATTS IFERC) FIXED PRICE SWAP FUTURES (NY-HHS - CME) vs HENRY HUB NATURAL GAS SWAP FUTURES (NY-NN - CME)</b>						
Spread Credit Rate	Increase	-1:+1	85%	85%	90%	90%
<b>HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs ALGONQUIN NATURAL GAS (PLATTS IFERC) FIXED PRICE FUTURES (NY-XAC - CME)</b>						
Spread Credit Rate	New	+1:-4			80%	80%
<b>HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs ANR, LOUISIANA NATURAL GAS (PLATTS IFERC) FIXED PRICE FUTURES (NY-DAR - CME)</b>						
Spread Credit Rate	New	+1:-4			85%	85%
<b>HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs ANR, OKLAHOMA NATURAL GAS (PLATTS IFERC) FIXED PRICE FUTURES (NY-DAL - CME)</b>						
Spread Credit Rate	New	+1:-4			85%	85%
<b>HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs CENTER POINT NATURAL GAS (PLATTS IFERC) FIXED PRICE FUTURES (NY-DAC - CME)</b>						
Spread Credit Rate	New	+1:-4			85%	85%
<b>HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs CIG ROCKIES NATURAL GAS (PLATTS IFERC) FIXED PRICE FUTURES (NY-XIC - CME)</b>						
Spread Credit Rate	New	+1:-4			85%	85%
<b>HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs COLUMBIA GULF, MAINLINE NATURAL GAS (PLATTS IFERC) FIXED PRICE FUTURES (NY-DCE - CME)</b>						
Spread Credit Rate	New	+1:-4			85%	85%
<b>HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs DEMARC NATURAL GAS (PLATTS IFERC) FIXED PRICE FUTURES (NY-DNP - CME)</b>						
Spread Credit Rate	New	+1:-4			85%	85%
<b>HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs FLORIDA GAS ZONE 2 NATURAL GAS (PLATTS IFERC) FIXED PRICE FUTURES (NY-XGC - CME)</b>						
Spread Credit Rate	New	+1:-4			85%	85%
<b>HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs FLORIDA GAS ZONE 3 NATURAL GAS (PLATTS IFERC) FIXED PRICE FUTURES (NY-XFC - CME)</b>						
Spread Credit Rate	New	+1:-4			85%	85%
<b>HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs HOUSTON SHIP CHANNEL PIPE SWAP (NY-XJ - CME)</b>						
Spread Credit Rate	Increase	+1:-4	85%	85%	90%	90%

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Inter-commodity Spread Rates</b>						
<b>HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs ISO NEW ENGLAND CONNECTICUT ZONE 5 MW PEAK CALENDAR-MONTH DAY-AHEAD LMP SWAP FUTURES (NY-P2 - CME)</b>						
Spread Credit Rate	Increase	+1:-11	0%	0%	30%	30%
<b>HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs KERN RIVER NATURAL GAS (PLATTS IFERC) FIXED PRICE FUTURES (NY-DFE - CME)</b>						
Spread Credit Rate	New	+1:-4			85%	85%
<b>HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs MALIN NATURAL GAS (PLATTS IFERC) FIXED PRICE FUTURES (NY-DML - CME)</b>						
Spread Credit Rate	New	+1:-4			85%	85%
<b>HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs MICHCON BASIS SWAP (PLATTS IFERC) FUTURES (NY-NF - CME)</b>						
Spread Credit Rate	Decrease	+1:-4	40%	40%	0%	0%
<b>HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs MIDWEST ISO CINERGY HUB 5 MW PEAK CALENDAR-MONTH DAY-AHEAD SWAP FUTURES (NY-H5 - CME)</b>						
Spread Credit Rate	Increase	+1:-11	30%	30%	45%	45%
<b>HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs NGPL STX NATURAL GAS (PLATTS IFERC) FIXED PRICE FUTURES (NY-DNS - CME)</b>						
Spread Credit Rate	New	+1:-4			85%	85%
<b>HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs NGPL TEXOK NATURAL GAS (PLATTS IFERC) FIXED PRICE FUTURES (NY-XNC - CME)</b>						
Spread Credit Rate	New	+1:-4			85%	85%
<b>HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs NYISO ZONE A 5 MW OFF-PEAK CALENDAR-MONTH DAY-AHEAD LBMP SWAP FUTURES (NY-K4 - CME)</b>						
Spread Credit Rate	Increase	+1:-194	0%	0%	40%	40%
<b>HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs NYISO ZONE C 5 MW PEAK CALENDAR-MONTH DAY-AHEAD LBMP SWAP FUTURES (NY-Q5 - CME)</b>						
Spread Credit Rate	Increase	+1:-11	15%	15%	25%	25%
<b>HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs ONEOK, OKLAHOMA NATURAL GAS (PLATTS IFERC) FIXED PRICE FUTURES (NY-XKC - CME)</b>						
Spread Credit Rate	Increase	+1:-4	0%	0%	85%	85%
<b>HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs PALO VERDE DAY-AHEAD PEAK CALENDAR-MONTH 5 MW FUTURES (NY-PVD - CME)</b>						
Spread Credit Rate	New	+1:-11			30%	30%
<b>HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs PJM APS ZONE OFF-PEAK CALENDAR-MONTH DAY-AHEAD LMP SWAP FUTURES (NY-W4 - CME)</b>						
Spread Credit Rate	Increase	+1:-194	30%	30%	45%	45%
<b>HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs PJM APS ZONE PEAK CALENDAR-MONTH DAY-AHEAD LMP SWAP FUTURES (NY-S4 - CME)</b>						
Spread Credit Rate	Increase	+1:-11	30%	30%	40%	40%

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Inter-commodity Spread Rates</b>						
<b>HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs PJM BGE ZONE OFF-PEAK CALENDAR-MONTH DAY-AHEAD LMP SWAP FUTURES (NY-R3 - CME)</b>						
Spread Credit Rate	Increase	+1:-194	30%	30%	60%	60%
<b>HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs PJM BGE ZONE PEAK CALENDAR-MONTH DAY-AHEAD LMP SWAP FUTURES (NY-E3 - CME)</b>						
Spread Credit Rate	Increase	+1:-11	0%	0%	30%	30%
<b>HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs PJM JCPL ZONE OFF-PEAK CALENDAR-MONTH DAY-AHEAD LMP SWAP FUTURES (NY-F2 - CME)</b>						
Spread Credit Rate	Increase	+1:-194	60%	60%	70%	70%
<b>HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs PJM JCPL ZONE PEAK CALENDAR-MONTH DAY-AHEAD LMP SWAP FUTURES (NY-J2 - CME)</b>						
Spread Credit Rate	Increase	+1:-11	30%	30%	50%	50%
<b>HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs PJM PEAK CALENDAR-MONTH LMP SWAP FUTURES (NY-JM - CME)</b>						
Spread Credit Rate	Increase	+1:-1	25%	25%	35%	35%
<b>HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs PJM PECO ZONE 5 MW OFF-PEAK CALENDAR-MONTH DAY-AHEAD LMP SWAP FUTURES (NY-4P - CME)</b>						
Spread Credit Rate	Increase	+1:-194	35%	35%	50%	50%
<b>HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs PJM PECO ZONE 5 MW PEAK CALENDAR-MONTH DAY-AHEAD LMP SWAP FUTURES (NY-4N - CME)</b>						
Spread Credit Rate	Increase	+1:-11	0%	0%	35%	35%
<b>HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs PJM PPL ZONE PEAK CALENDAR-MONTH DAY-AHEAD LMP SWAP FUTURES (NY-L5 - CME)</b>						
Spread Credit Rate	Increase	+1:-11	0%	0%	40%	40%
<b>HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs PJM WESTERN HUB PEAK CALENDAR-MONTH DAY-AHEAD LMP SWAP FUTURES (NY-J4 - CME)</b>						
Spread Credit Rate	Decrease	+1:-11	45%	45%	25%	25%
<b>HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs POWDER RIVER BASIN COAL (PLATTS OTC BROKER INDEX) SWAP FUTURES (NY-QP - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	20%	20%	0%	0%
<b>HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs SAN JUAN PIPE SWAP (NY-XX - CME)</b>						
Spread Credit Rate	Increase	+1:-4	85%	85%	90%	90%
<b>HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs SOUTHERN NATURAL LOUISIANA NATURAL GAS (PLATTS IFERC) FIXED PRICE FUTURES (NY-XSC - CME)</b>						
Spread Credit Rate	New	+1:-4			85%	85%
<b>HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs SUMAS NATURAL GAS (PLATTS IFERC) FIXED PRICE FUTURES (NY-DVS - CME)</b>						
Spread Credit Rate	New	+1:-4			85%	85%

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Inter-commodity Spread Rates</b>						
<b>HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs TENNESSEE 500 LEG NATURAL GAS (PLATTS IFERC) FIXED PRICE FUTURES (NY-ZNP - CME)</b>						
Spread Credit Rate	New	+1:-4			85%	85%
<b>HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs TENNESSEE 800 LEG NATURAL GAS (PLATTS IFERC) FIXED PRICE FUTURES (NY-ZZ6 - CME)</b>						
Spread Credit Rate	New	+1:-4			85%	85%
<b>HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs TETCO STX NATURAL GAS (PLATTS IFERC) FIXED PRICE FUTURES (NY-ZTS - CME)</b>						
Spread Credit Rate	New	+1:-4			85%	85%
<b>HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs TEXAS GAS ZONE 1 NATURAL GAS (PLATTS IFERC) FIXED PRICE FUTURES (NY-ZTA - CME)</b>						
Spread Credit Rate	New	+1:-4			80%	80%
<b>HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs TRANSCO ZONE 1 NATURAL GAS (PLATTS IFERC) FIXED PRICE FUTURES (NY-XZ1 - CME)</b>						
Spread Credit Rate	New	+1:-4			85%	85%
<b>HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs TRANSCO ZONE 3 NATURAL GAS (PLATTS IFERC) FIXED PRICE FUTURES (NY-XZ3 - CME)</b>						
Spread Credit Rate	New	+1:-4			85%	85%
<b>HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs TRANSCO ZONE 4 NATURAL GAS (PLATTS IFERC) FIXED PRICE FUTURES (NY-XZ4 - CME)</b>						
Spread Credit Rate	New	+1:-4			85%	85%
<b>HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs TRUNKLINE LOUISIANA NATURAL GAS (PLATTS IFERC) FIXED PRICE FUTURES (NY-XTC - CME)</b>						
Spread Credit Rate	New	+1:-4			85%	85%
<b>HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs VENTURA NATURAL GAS (PLATTS IFERC) FIXED PRICE FUTURES (NY-DVA - CME)</b>						
Spread Credit Rate	New	+1:-4			80%	80%
<b>HENRY HUB NATURAL GAS FUTURES (NY-NG, NN, HP) vs MONT BELVIEU ETHANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-C0 - CME)</b>						
Spread Credit Rate	Increase	+1:-3	0%	0%	25%	25%
<b>MICHCON BASIS SWAP (PLATTS IFERC) FUTURES (NY-NF - CME) vs COLUMBIA GAS TCO BASIS SWAP (PLATTS IFERC) FUTURES (NY-TC - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	50%	50%	30%	30%
<b>MICHCON BASIS SWAP (PLATTS IFERC) FUTURES (NY-NF - CME) vs DAWN NATURAL GAS BASIS SWAP (PLATTS IFERC) FUTURES (NY-DW - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	55%	55%	30%	30%
<b>MICHCON BASIS SWAP (PLATTS IFERC) FUTURES (NY-NF - CME) vs DEMARC BASIS SWAP (PLATTS IFERC) FUTURES (NY-PE - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	60%	60%	30%	30%

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Inter-commodity Spread Rates</b>						
<b>MICHCON BASIS SWAP (PLATTS IFERC) FUTURES (NY-NF - CME) vs ONEOK, OKLAHOMA BASIS SWAP (PLATTS IFERC) FUTURES (NY-8X - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	45%	45%	30%	30%
<b>MICHCON BASIS SWAP (PLATTS IFERC) FUTURES (NY-NF - CME) vs TRANSCO ZONE 4 BASIS SWAP (PLATTS IFERC) FUTURES (NY-TR - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	50%	50%	30%	30%
<b>MICHCON BASIS SWAP (PLATTS IFERC) FUTURES (NY-NF - CME) vs VENTURA BASIS SWAP (PLATTS IFERC) FUTURES (NY-PF - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	75%	75%	30%	30%
<b>MIDWEST ISO CINERGY HUB 5 MW PEAK CALENDAR-MONTH REAL-TIME SWAP FUTURES (NY-H3 - CME) vs HENRY HUB NATURAL GAS FUTURES (NY-NG - CME)</b>						
Spread Credit Rate	Increase	-11:+1	30%	30%	45%	45%
<b>NGPL MID-CON (PLATTS IFERC) FIXED PRICE SWAP FUTURES (NY-NFS - CME) vs HENRY HUB NATURAL GAS FUTURES (NY-NG - CME)</b>						
Spread Credit Rate	Increase	-4:+1	75%	75%	85%	85%
<b>NYISO ZONE J PEAK LBMP SWAP FUTURES (NY-KJ - CME) vs HENRY HUB NATURAL GAS FUTURES (NY-NG - CME)</b>						
Spread Credit Rate	Increase	+2:-1	10%	10%	30%	30%
<b>PANHANDLE BASIS SWAP (PLATTS IFERC) FUTURES (NY-PH - CME) vs MICHCON BASIS SWAP (PLATTS IFERC) FUTURES (NY-NF - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	65%	65%	30%	30%
<b>PERMIAN (PLATTS IFERC) FIXED PRICE SWAP FUTURES (NY-PFS - CME) vs HENRY HUB NATURAL GAS FUTURES (NY-NG - CME)</b>						
Spread Credit Rate	Increase	-4:+1	80%	80%	85%	85%
<b>PJM PSEG ZONE OFF-PEAK CALENDAR-MONTH DAY-AHEAD LMP SWAP (NYM-W6 - CME) vs HENRY HUB NATURAL GAS (NYM-NG, NN, HP)</b>						
Spread Credit Rate	Increase	-194:+1	30%	30%	55%	55%
<b>PJM WESTERN HUB OFF-PEAK CALENDAR-MONTH DAY-AHEAD LMP SWAP (NYM-E4 - CME) vs HENRY HUB NATURAL GAS (NYM-NG, NN, HP)</b>						
Spread Credit Rate	Increase	+194:-1	0%	0%	25%	25%
<b>PJM WESTERN HUB PEAK CALENDAR-MONTH DAY-AHEAD LMP SWAP FUTURES (NY-J4 - CME) vs HENRY HUB NATURAL GAS FUTURES (NY-NG - CME)</b>						
Spread Credit Rate	Increase	-11:+1	0%	0%	25%	25%
<b>WAHA (PLATTS IFERC) FIXED PRICE SWAP FUTURES (NY-WFS - CME) vs HENRY HUB NATURAL GAS FUTURES (NY-NG - CME)</b>						
Spread Credit Rate	Increase	-4:+1	80%	80%	85%	85%

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Inter-commodity Spread Rates</b>						
<b>NGL/PETROCHEMICALS - Inter-commodity Spread Rates</b>						
<b>1% FUEL OIL (PLATTS) CARGOES CIF MED SWAP FUTURES (NY-1W - CME) vs EUROPEAN PROPANE CIF ARA (ARGUS) SWAP FUTURES (NY-PS - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	30%	30%	20%	20%
<b>1% FUEL OIL (PLATTS) CARGOES CIF MED SWAP FUTURES (NY-1W - CME) vs MONT BELVIEU ISO-BUTANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-8I - CME)</b>						
Spread Credit Rate	New	+2:-15			45%	45%
<b>1% FUEL OIL (PLATTS) CARGOES CIF MED SWAP FUTURES (NY-1W - CME) vs MONT BELVIEU NORMAL BUTANE LDH (OPIS) SWAP FUTURES (NY-MNB - CME)</b>						
Spread Credit Rate	New	+2:-15			55%	55%
<b>ARGUS PROPAN(SAUDI ARAMCO) SWP (NY-9N - CME) vs EUROPE NAPHTHA CALSWAP (NY-UN - CME)</b>						
Spread Credit Rate	Increase	+1:-1	40%	40%	55%	55%
<b>ARGUS PROPANE (SAUDI ARAMCO) SWAP FUTURES (NY-9N - CME) vs EUROPEAN NAPHTHA (PLATTS) CALENDAR SWAP FUTURES (NY-UN - CME)</b>						
Spread Credit Rate	Increase	+1:-1	40%	40%	55%	55%
<b>ARGUS PROPANE (SAUDI ARAMCO) SWAP FUTURES (NY-9N - CME) vs GASOLINE EURO-BOB OXY (ARGUS) NWE BARGES SWAP FUTURES (NY-7H - CME)</b>						
Spread Credit Rate	Increase	+1:-1	30%	30%	50%	50%
<b>ARGUS PROPANE (SAUDI ARAMCO) SWAP FUTURES (NY-9N - CME) vs GULF COAST NO. 6 FUEL OIL 3.0% (PLATTS) SWAP FUTURES (NY-MF - CME)</b>						
Spread Credit Rate	New	+2:-15			40%	40%
<b>ARGUS PROPANE (SAUDI ARAMCO) SWAP FUTURES (NY-9N - CME) vs NEW YORK HARBOR RESIDUAL FUEL 1.0% (PLATTS) SWAP FUTURES (NY-MM - CME)</b>						
Spread Credit Rate	Increase	+2:-15	30%	30%	50%	50%
<b>ARGUS PROPANE (SAUDI ARAMCO) SWAP FUTURES (NY-9N - CME) vs RBOB GASOLINE FUTURES (NY-RB - CME)</b>						
Spread Credit Rate	Increase	+2:-15	35%	35%	50%	50%
<b>ARGUS PROPANE (SAUDI ARAMCO) SWAP FUTURES (NY-9N - CME) vs SINGAPORE NAPHTHA (PLATTS) SWAP FUTURES (NY-SP - CME)</b>						
Spread Credit Rate	Increase	+2:-15	30%	30%	55%	55%
<b>ARGUS PROPANE FAR EAST INDEX SWAP FUTURES (NY-7E - CME) vs GASOLINE EURO-BOB OXY (ARGUS) NWE BARGES SWAP FUTURES (NY-7H - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	30%	30%	0%	0%
<b>ARGUS PROPANE FAR EAST INDEX SWAP FUTURES (NY-7E - CME) vs PREMIUM UNLEADED GASOLINE 10 PPM (PLATTS) FOB MED SWAP FUTURES (NY-3G - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	30%	30%	0%	0%
<b>CONWAY NATURAL GASOLINE (OPIS) SWAP FUTURES (NY-8L - CME) vs SINGAPORE JET KEROSENE (PLATTS) SWAP FUTURES (NY-KS - CME)</b>						
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
<b>Inter-commodity Spread Rates</b>						
<b>EUROPEAN JET KEROSENE (PLATTS) CARGOES CIF NWE CALENDAR SWAP FUTURES (NY-UJ - CME) vs ARGUS PROPANE FAR EAST INDEX SWAP FUTURES (NY-7E - CME)</b>						
Spread Credit Rate	New	+1:-1			30%	30%
<b>EUROPEAN JET KEROSENE (PLATTS) CARGOES CIF NWE CALENDAR SWAP FUTURES (NY-UJ - CME) vs CONWAY NATURAL GASOLINE (OPIS) SWAP FUTURES (NY-8L - CME)</b>						
Spread Credit Rate	Increase	+2:-15	25%	25%	45%	45%
<b>EUROPEAN JET KEROSENE (PLATTS) CARGOES CIF NWE CALENDAR SWAP FUTURES (NY-UJ - CME) vs EUROPEAN PROPANE CIF ARA (ARGUS) SWAP FUTURES (NY-PS - CME)</b>						
Spread Credit Rate	New	+1:-1			40%	40%
<b>EUROPEAN JET KEROSENE (PLATTS) CARGOES CIF NWE CALENDAR SWAP FUTURES (NY-UJ - CME) vs MONT BELVIEU ISO-BUTANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-8I - CME)</b>						
Spread Credit Rate	New	+2:-15			55%	55%
<b>EUROPEAN JET KEROSENE (PLATTS) CARGOES CIF NWE CALENDAR SWAP FUTURES (NY-UJ - CME) vs MONT BELVIEU NORMAL BUTANE LDH (OPIS) SWAP FUTURES (NY-MNB - CME)</b>						
Spread Credit Rate	Increase	+2:-15	0%	0%	60%	60%
<b>EUROPEAN JET KEROSENE (PLATTS) CARGOES CIF NWE CALENDAR SWAP FUTURES (NY-UJ - CME) vs PROPANE NON-LDH MONT BELVIEU (OPIS) SWAP FUTURES (NY-1R - CME)</b>						
Spread Credit Rate	Increase	+2:-15	30%	30%	50%	50%
<b>EUROPEAN NAPHTHA (PLATTS) CALENDAR SWAP FUTURES (NY-UN - CME) vs CONWAY NATURAL GASOLINE (OPIS) SWAP FUTURES (NY-8L - CME)</b>						
Spread Credit Rate	New	+2:-15			35%	35%
<b>EUROPEAN PROPANE CIF ARA (ARGUS) SWAP FUTURES (NY-PS - CME) vs EUROPEAN 1% FUEL OIL (PLATTS) BARGES FOB RDAM CALENDAR SWAP FUTURES (NY-UH - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	40%	40%	30%	30%
<b>EUROPEAN PROPANE CIF ARA (ARGUS) SWAP FUTURES (NY-PS - CME) vs EUROPEAN 1% FUEL OIL (PLATTS) CARGOES FOB NWE CALENDAR SWAP FUTURES (NY-UF - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	40%	40%	30%	30%
<b>EUROPEAN PROPANE CIF ARA (ARGUS) SWAP FUTURES (NY-PS - CME) vs SINGAPORE NAPHTHA (PLATTS) SWAP FUTURES (NY-SP - CME)</b>						
Spread Credit Rate	Decrease	+10:-1	50%	50%	40%	40%
<b>EUROPEAN PROPANE CIF ARA (ARGUS) SWAP FUTURES (NY-PS) vs. GULF COAST ULSD (PLATTS) SWAP FUTURES (NY-LY)</b>						
Spread Credit Rate	Decrease	+2:-15	40%	40%	30%	30%
Spread Credit Rate	Decrease	+2:-15	40%	40%	30%	30%
<b>EUROPEAN PROPANE CIF ARA (ARGUS) SWAP FUTURES (NY-PS) vs. SINGAPORE FUEL OIL 180 CST (PLATTS) CALENDAR SWAP FUTURES (NY-UA)</b>						
Spread Credit Rate	Decrease	+1:-1	45%	45%	30%	30%
Spread Credit Rate	Decrease	+1:-1	45%	45%	30%	30%
<b>GULF COAST JET FUEL (PLATTS) CALENDAR SWAP FUTURES (NY-GE - CME) vs MONT BELVIEU NATURAL GASOLINE 5 DECIMALS (OPIS) SWAP FUTURES (NY-7Q - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	65%	65%	60%	60%

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Inter-commodity Spread Rates</b>						
<b>GULF COAST JET FUEL (PLATTS) CALENDAR SWAP FUTURES (NY-GE - CME) vs MONT BELVIEU NORMAL BUTANE LDH (OPIS) SWAP FUTURES (NY-MNB - CME)</b>						
Spread Credit Rate	Increase	+1:-1	40%	40%	60%	60%
<b>GULF COAST ULSD (PLATTS) SWAP FUTURES (NY-LY - CME) vs MONT BELVIEU NATURAL GASOLINE 5 DECIMALS (OPIS) SWAP FUTURES (NY-7Q - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	65%	65%	60%	60%
<b>GULF COAST UNL 87 (PLATTS) CALENDAR SWAP FUTURES (NY-GS - CME) vs MONT BELVIEU ISO-BUTANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-8I - CME)</b>						
Spread Credit Rate	New	+1:-1			45%	45%
<b>GULF COAST UNL 87 (PLATTS) CALENDAR SWAP FUTURES (NY-GS - CME) vs MONT BELVIEU LDH PROPANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-B0 - CME)</b>						
Spread Credit Rate	Increase	+1:-1	30%	30%	45%	45%
<b>GULF COAST UNL 87 (PLATTS) CALENDAR SWAP FUTURES (NY-GS - CME) vs MONT BELVIEU NORMAL BUTANE LDH (OPIS) SWAP FUTURES (NY-MNB - CME)</b>						
Spread Credit Rate	Increase	+1:-1	30%	30%	50%	50%
<b>HEATING OIL CALENDAR SWAP FUTURES (NY-MP - CME) vs MONT BELVIEU PHYSICAL NORMAL BUTANE (OPIS) FUTURES (NY-3M - CME)</b>						
Spread Credit Rate	Increase	+1:-1	30%	30%	60%	60%
<b>HENRY HUB NATURAL GAS FUTURES (NY-NG, NN, HP) vs MONT BELVIEU ETHANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-C0 - CME)</b>						
Spread Credit Rate	Increase	+1:-3	0%	0%	25%	25%
<b>JAPAN C&amp;F NAPHTHA (PLATTS) SWAP FUTURES (NY-JA - CME) vs CONWAY NATURAL GASOLINE (OPIS) SWAP FUTURES (NY-8L - CME)</b>						
Spread Credit Rate	New	+2:-15			35%	35%
<b>JAPAN C&amp;F NAPHTHA (PLATTS) SWAP FUTURES (NY-JA) vs. MONT BELVIEU LDH PROPANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-B0)</b>						
Spread Credit Rate	Increase	+2:-15	35%	35%	50%	50%
Spread Credit Rate	Increase	+2:-15	35%	35%	50%	50%
<b>LOS ANGELES CARB DIESEL (OPIS) OUTRIGHT SWAP FUTURES (NY-LX - CME) vs CONWAY NATURAL GASOLINE (OPIS) SWAP FUTURES (NY-8L - CME)</b>						
Spread Credit Rate	New	+1:-1			30%	30%
<b>LOS ANGELES CARB DIESEL (OPIS) OUTRIGHT SWAP FUTURES (NY-LX - CME) vs MONT BELVIEU ISO-BUTANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-8I - CME)</b>						
Spread Credit Rate	New	+1:-1			50%	50%
<b>LOS ANGELES CARB DIESEL (OPIS) OUTRIGHT SWAP FUTURES (NY-LX - CME) vs MONT BELVIEU LDH PROPANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-B0 - CME)</b>						
Spread Credit Rate	New	+1:-1			40%	40%
<b>LOS ANGELES CARB DIESEL (OPIS) OUTRIGHT SWAP FUTURES (NY-LX - CME) vs MONT BELVIEU NORMAL BUTANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-D0 - CME)</b>						
Spread Credit Rate	Increase	+1:-1	35%	35%	50%	50%



## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Inter-commodity Spread Rates</b>						
<b>LOS ANGELES CARB DIESEL (OPIS) OUTRIGHT SWAP FUTURES (NY-LX - CME) vs MONT BELVIEU NORMAL BUTANE LDH (OPIS) SWAP FUTURES (NY-MNB - CME)</b>						
Spread Credit Rate	New	+1:-1			50%	50%
<b>MONT BELVIEU ISO-BUTANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-8I - CME) vs EUROPEAN 1% FUEL OIL (PLATTS) BARGES FOB RDAM CALENDAR SWAP FUTURES (NY-UH - CME)</b>						
Spread Credit Rate	Increase	+15:-2	30%	30%	45%	45%
<b>MONT BELVIEU ISO-BUTANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-8I - CME) vs SINGAPORE GASOIL (PLATTS) SWAP FUTURES (NY-SG - CME)</b>						
Spread Credit Rate	Increase	+1:-1	40%	40%	55%	55%
<b>MONT BELVIEU ISO-BUTANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-8I) vs. EUROPEAN 1% FUEL OIL (PLATTS) CARGOES FOB NWE CALENDAR SWAP FUTURES (NY-UF)</b>						
Spread Credit Rate	Increase	+15:-2	30%	30%	45%	45%
Spread Credit Rate	Increase	+15:-2	30%	30%	45%	45%
<b>MONT BELVIEU ISO-BUTANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-8I) vs. GASOLINE EURO-BOB OXY (ARGUS) NWE BARGES SWAP FUTURES (NY-7H)</b>						
Spread Credit Rate	Increase	+15:-2	30%	30%	45%	45%
Spread Credit Rate	Increase	+15:-2	30%	30%	45%	45%
<b>MONT BELVIEU ISO-BUTANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-8I) vs. NEW YORK HARBOR RESIDUAL FUEL 1.0% (PLATTS) SWAP FUTURES (NY-MM)</b>						
Spread Credit Rate	Increase	+1:-1	30%	30%	45%	45%
Spread Credit Rate	Increase	+1:-1	30%	30%	45%	45%
<b>MONT BELVIEU LDH PROPANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-B0 - CME) vs 1% FUEL OIL (PLATTS) CARGOES CIF MED SWAP FUTURES (NY-1W - CME)</b>						
Spread Credit Rate	New	+15:-2			40%	40%
<b>MONT BELVIEU NORMAL BUTANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-D0 - CME) vs GULF COAST NO. 6 FUEL OIL 3.0% (PLATTS) SWAP FUTURES (NY-MF - CME)</b>						
Spread Credit Rate	Increase	+1:-1	40%	40%	60%	60%
<b>MONT BELVIEU NORMAL BUTANE LDH (OPIS) SWAP FUTURES (NY-MNB - CME) vs EUROPEAN 1% FUEL OIL (PLATTS) BARGES FOB RDAM CALENDAR SWAP FUTURES (NY-UH - CME)</b>						
Spread Credit Rate	New	+15:-2			55%	55%
<b>MONT BELVIEU NORMAL BUTANE LDH (OPIS) SWAP FUTURES (NY-MNB - CME) vs EUROPEAN 1% FUEL OIL (PLATTS) CARGOES FOB NWE CALENDAR SWAP FUTURES (NY-UF - CME)</b>						
Spread Credit Rate	New	+15:-2			55%	55%
<b>MONT BELVIEU NORMAL BUTANE LDH (OPIS) SWAP FUTURES (NY-MNB - CME) vs EUROPEAN 3.5% FUEL OIL (PLATTS) BARGES FOB RDAM CALENDAR SWAP FUTURES (NY-UV - CME)</b>						
Spread Credit Rate	New	+15:-2			55%	55%
<b>MONT BELVIEU NORMAL BUTANE LDH (OPIS) SWAP FUTURES (NY-MNB - CME) vs HEATING OIL CALENDAR SWAP FUTURES (NY-MP - CME)</b>						
Spread Credit Rate	Increase	+1:-1	0%	0%	60%	60%

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Inter-commodity Spread Rates</b>						
<b>MONT BELVIEU NORMAL BUTANE LDH (OPIS) SWAP FUTURES (NY-MNB - CME) vs NEW YORK HARBOR NO. 2 HEATING OIL FUTURES (NY-HO - CME)</b>						
Spread Credit Rate	Increase	+1:-1	45%	45%	60%	60%
<b>MONT BELVIEU NORMAL BUTANE LDH (OPIS) SWAP FUTURES (NY-MNB - CME) vs NEW YORK HARBOR RESIDUAL FUEL 1.0% (PLATTS) SWAP FUTURES (NY-MM - CME)</b>						
Spread Credit Rate	Increase	+1:-1	40%	40%	55%	55%
<b>MONT BELVIEU NORMAL BUTANE LDH (OPIS) SWAP FUTURES (NY-MNB - CME) vs RBOB GASOLINE FUTURES (NY-RB, RL, RT)</b>						
Spread Credit Rate	Increase	+1:-1	30%	30%	55%	55%
<b>MONT BELVIEU NORMAL BUTANE LDH (OPIS) SWAP FUTURES (NY-MNB) vs. EIA FLAT TAX ON-HIGHWAY DIESEL SWAP FUTURES (NY-A5)</b>						
Spread Credit Rate	Increase	+1:-1	40%	40%	55%	55%
<b>MONT BELVIEU NORMAL BUTANE LDH (OPIS) SWAP FUTURES (NY-MNB) vs. EUROPEAN GASOIL (ICE) SWAP FUTURES (NY-GX)</b>						
Spread Credit Rate	Increase	+15:-2	30%	30%	60%	60%
Spread Credit Rate	Increase	+15:-2	30%	30%	60%	60%
<b>MONT BELVIEU NORMAL BUTANE LDH (OPIS) SWAP FUTURES (NY-MNB) vs. EUROPEAN NAPHTHA (PLATTS) CALENDAR SWAP FUTURES (NY-UN)</b>						
Spread Credit Rate	Increase	+15:-2	30%	30%	50%	50%
Spread Credit Rate	Increase	+15:-2	30%	30%	50%	50%
<b>MONT BELVIEU NORMAL BUTANE LDH (OPIS) SWAP FUTURES (NY-MNB) vs. GASOLINE EURO-BOB OXY (ARGUS) NWE BARGES SWAP FUTURES (NY-7H)</b>						
Spread Credit Rate	Increase	+15:-2	40%	40%	55%	55%
<b>MONT BELVIEU NORMAL BUTANE LDH (OPIS) SWAP FUTURES (NY-MNB) vs. SINGAPORE FUEL OIL 180 CST (PLATTS) CALENDAR SWAP FUTURES (NY-UA)</b>						
Spread Credit Rate	Increase	+15:-2	30%	30%	50%	50%
Spread Credit Rate	Increase	+15:-2	30%	30%	50%	50%
<b>MONT BELVIEU NORMAL BUTANE LDH (OPIS) SWAP FUTURES (NY-MNB) vs. SINGAPORE FUEL OIL 380 CST (PLATTS) SWAP FUTURES (NY-SE)</b>						
Spread Credit Rate	Increase	+15:-2	30%	30%	50%	50%
Spread Credit Rate	Increase	+15:-2	30%	30%	50%	50%
<b>MONT BELVIEU NORMAL BUTANE LDH (OPIS) SWAP FUTURES (NY-MNB) vs. SINGAPORE GASOIL (PLATTS) SWAP FUTURES (NY-SG)</b>						
Spread Credit Rate	Increase	+1:-1	45%	45%	65%	65%
Spread Credit Rate	Increase	+1:-1	45%	45%	65%	65%
<b>MONT BELVIEU NORMAL BUTANE LDH (OPIS) SWAP FUTURES (NY-MNB) vs. SINGAPORE JET KEROSENE (PLATTS) SWAP FUTURES (NY-KS)</b>						
Spread Credit Rate	Increase	+1:-1	0%	0%	60%	60%
Spread Credit Rate	Increase	+1:-1	0%	0%	60%	60%

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Inter-commodity Spread Rates</b>						
<b>MONT BELVIEU PHYSICAL LDH PROPANE (OPIS) (NYM-3N - CME) vs HEATING OIL (NYM-HO, BH, MP)</b>						
Spread Credit Rate	Decrease	+1:-1	50%	50%	35%	35%
<b>MONT BELVIEU PHYSICAL LDH PROPANE (OPIS) FUTURES (NY-3N - CME) vs HEATING OIL CALENDAR SWAP FUTURES (NY-MP - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	50%	50%	35%	35%
<b>MONT BELVIEU PHYSICAL NON-LDH PROPANE (OPIS) (NYM-3P - CME) vs HEATING OIL (NYM-HO, BH, MP)</b>						
Spread Credit Rate	Increase	+1:-1	35%	35%	50%	50%
<b>MONT BELVIEU PHYSICAL NON-LDH PROPANE (OPIS) FUTURES (NY-3P - CME) vs HEATING OIL CALENDAR SWAP FUTURES (NY-MP - CME)</b>						
Spread Credit Rate	Increase	+1:-1	35%	35%	50%	50%
<b>NEW YORK HARBOR NO. 2 HEATING OIL FUTURES (NY-HO - CME) vs MONT BELVIEU PHYSICAL NORMAL BUTANE (OPIS) FUTURES (NY-3M - CME)</b>						
Spread Credit Rate	Increase	+1:-1	30%	30%	60%	60%
<b>NEW YORK HARBOR NO. 2 HEATING OIL FUTURES (NY-HO, MP, BH) vs MONT BELVIEU PHYSICAL NORMAL BUTANE (OPIS) FUTURES (NY-3M - CME)</b>						
Spread Credit Rate	Increase	+1:-1	30%	30%	60%	60%
<b>NY 3.0% FUEL OIL (PLATTS) SWAP FUTURES (NY-H1 - CME) vs MONT BELVIEU ISO-BUTANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-8I - CME)</b>						
Spread Credit Rate	New	+1:-1			45%	45%
<b>NY 3.0% FUEL OIL (PLATTS) SWAP FUTURES (NY-H1 - CME) vs MONT BELVIEU NATURAL GASOLINE 5 DECIMALS (OPIS) SWAP FUTURES (NY-7Q - CME)</b>						
Spread Credit Rate	Increase	+1:-1	50%	50%	70%	70%
<b>NY 3.0% FUEL OIL (PLATTS) SWAP FUTURES (NY-H1 - CME) vs MONT BELVIEU NORMAL BUTANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-D0 - CME)</b>						
Spread Credit Rate	Increase	+1:-1	30%	30%	60%	60%
<b>NY 3.0% FUEL OIL (PLATTS) SWAP FUTURES (NY-H1 - CME) vs MONT BELVIEU NORMAL BUTANE LDH (OPIS) SWAP FUTURES (NY-MNB - CME)</b>						
Spread Credit Rate	Increase	+1:-1	30%	30%	50%	50%
<b>PREMIUM UNLEADED GASOLINE 10 PPM (PLATTS) FOB MED SWAP FUTURES (NY-3G - CME) vs MONT BELVIEU ISO-BUTANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-8I - CME)</b>						
Spread Credit Rate	New	+2:-15			45%	45%
<b>PREMIUM UNLEADED GASOLINE 10 PPM (PLATTS) FOB MED SWAP FUTURES (NY-3G - CME) vs MONT BELVIEU NORMAL BUTANE LDH (OPIS) SWAP FUTURES (NY-MNB - CME)</b>						
Spread Credit Rate	New	+2:-15			40%	40%
<b>PROPANE NON-LDH MONT BELVIEU (OPIS) SWAP FUTURES (NY-1R - CME) vs EUROPEAN 1% FUEL OIL (PLATTS) CARGOES FOB NWE CALENDAR SWAP FUTURES (NY-UF - CME)</b>						
Spread Credit Rate	Increase	+1:-1	30%	30%	35%	35%
<b>PROPANE NON-LDH MONT BELVIEU (OPIS) SWAP FUTURES (NY-1R - CME) vs NEW YORK HARBOR RESIDUAL FUEL 1.0% (PLATTS) SWAP FUTURES (NY-MM - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	40%	40%	35%	35%

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Inter-commodity Spread Rates</b>						
<b>RBOB GASOLINE CALENDAR SWAP FUTURES (NY-RL - CME) vs MONT BELVIEU NORMAL BUTANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-MNB - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	60%	60%	55%	55%
<b>RBOB GASOLINE CALENDAR SWAP FUTURES (NY-RL - CME) vs MONT BELVIEU NORMAL BUTANE LDH (OPIS) SWAP FUTURES (NY-MNB - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	60%	60%	55%	55%
<b>SINGAPORE NAPHTHA (PLATTS) SWAP FUTURES (NY-SP - CME) vs CONWAY NATURAL GASOLINE (OPIS) SWAP FUTURES (NY-8L - CME)</b>						
Spread Credit Rate	New	+1:-1			40%	40%
<b>SINGAPORE NAPHTHA (PLATTS) SWAP FUTURES (NY-SP - CME) vs MONT BELVIEU ISO-BUTANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-8I - CME)</b>						
Spread Credit Rate	New	+1:-1			50%	50%
<b>SINGAPORE NAPHTHA (PLATTS) SWAP FUTURES (NY-SP - CME) vs MONT BELVIEU NORMAL BUTANE LDH (OPIS) SWAP FUTURES (NY-MNB - CME)</b>						
Spread Credit Rate	New	+1:-1			55%	55%
<b>SINGAPORE NAPHTHA SWAP (NY-SP - CME) vs EURO PROPANE CIF ARA SWAP (NY-PS - CME)</b>						
Spread Credit Rate	Decrease	+10:-1	50%	50%	40%	40%
<b>PETROLEUM CRACKS AND SPREADS - Inter-commodity Spread Rates</b>						
<b>EUROPEAN GASOIL 10 PPM (PLATTS) BARGES FOB RDAM VS. GASOIL FUTURES SWAP (NY-ET - CME) vs JET CARGOES (PLATTS) CIF NWE VS. GASOIL FUTURES SWAP (NY-JC - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	40%	40%	30%	30%
<b>GAS EURO-BOB OXY (ARG) CRACK (NY-7k) vs PREMIUM UNLD 10P FOB MED SWP (NY-3G)</b>						
Spread Credit Rate	Decrease	+1:-1	50%	50%	30%	30%
<b>SINGAPORE JET KEROSENE (PLATTS) DUBAI CRACK SPREAD SWAP FUTURES (NY-KSD - CME) vs SINGAPORE JET KEROSENE (PLATTS) SWAP FUTURES (NY-KS - CME)</b>						
Spread Credit Rate	New	+1:-1			50%	50%
<b>SINGAPORE MOGAS 92 UNLEADED (PLATTS) SWAP FUTURES (NY-1N - CME) vs SINGAPORE MOGAS 92 UNLEADED (PLATTS) BRENT CRACK SPREAD SWAP FUTURES (NY-1NB - CME)</b>						
Spread Credit Rate	New	+1:-1			50%	50%

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Inter-commodity Spread Rates</b>						
<b>REFINED PRODUCTS - Inter-commodity Spread Rates</b>						
<b>1% FUEL OIL (PLATTS) CARGOES CIF MED SWAP FUTURES (NY-1W - CME) vs EUROPEAN 1% FUEL OIL CARGOES FOB MED (PLATTS) SWAP FUTURES (NY-EFM - CME)</b>						
Spread Credit Rate	Increase	+1:-1	50%	50%	75%	75%
<b>1% FUEL OIL (PLATTS) CARGOES CIF MED SWAP FUTURES (NY-1W - CME) vs EUROPEAN PROPANE CIF ARA (ARGUS) SWAP FUTURES (NY-PS - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	30%	30%	20%	20%
<b>1% FUEL OIL (PLATTS) CARGOES CIF MED SWAP FUTURES (NY-1W - CME) vs GULF COAST JET FUEL (PLATTS) CALENDAR SWAP FUTURES (NY-GE - CME)</b>						
Spread Credit Rate	Decrease	+2:-15	70%	70%	60%	60%
<b>1% FUEL OIL (PLATTS) CARGOES CIF MED SWAP FUTURES (NY-1W - CME) vs MONT BELVIEU ISO-BUTANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-8I - CME)</b>						
Spread Credit Rate	New	+2:-15			45%	45%
<b>1% FUEL OIL (PLATTS) CARGOES CIF MED SWAP FUTURES (NY-1W - CME) vs MONT BELVIEU NORMAL BUTANE LDH (OPIS) SWAP FUTURES (NY-MNB - CME)</b>						
Spread Credit Rate	New	+2:-15			55%	55%
<b>1% FUEL OIL (PLATTS) CARGOES CIF MED SWAP FUTURES (NY-1W - CME) vs NEW YORK HARBOR RESIDUAL FUEL 1.0% (PLATTS) SWAP FUTURES (NY-MM - CME)</b>						
Spread Credit Rate	Decrease	+2:-15	80%	80%	70%	70%
<b>1% FUEL OIL (PLATTS) CARGOES CIF MED SWAP FUTURES (NY-1W - CME) vs NY 3.0% FUEL OIL (PLATTS) SWAP FUTURES (NY-H1 - CME)</b>						
Spread Credit Rate	Increase	+2:-15	30%	30%	75%	75%
<b>1% FUEL OIL (PLATTS) CARGOES CIF MED SWAP FUTURES (NY-1W - CME) vs SINGAPORE NAPHTHA (PLATTS) SWAP FUTURES (NY-SP - CME)</b>						
Spread Credit Rate	Increase	+2:-15	30%	30%	65%	65%
<b>ARGUS PROPAN(SAUDI ARAMCO) SWP (NY-9N - CME) vs EUROPE NAPHTHA CALSWAP (NY-UN - CME)</b>						
Spread Credit Rate	Increase	+1:-1	40%	40%	55%	55%
<b>ARGUS PROPANE (SAUDI ARAMCO) SWAP FUTURES (NY-9N - CME) vs EUROPEAN NAPHTHA (PLATTS) CALENDAR SWAP FUTURES (NY-UN - CME)</b>						
Spread Credit Rate	Increase	+1:-1	40%	40%	55%	55%
<b>ARGUS PROPANE (SAUDI ARAMCO) SWAP FUTURES (NY-9N - CME) vs GASOLINE EURO-BOB OXY (ARGUS) NWE BARGES SWAP FUTURES (NY-7H - CME)</b>						
Spread Credit Rate	Increase	+1:-1	30%	30%	50%	50%
<b>ARGUS PROPANE (SAUDI ARAMCO) SWAP FUTURES (NY-9N - CME) vs GULF COAST NO. 6 FUEL OIL 3.0% (PLATTS) SWAP FUTURES (NY-MF - CME)</b>						
Spread Credit Rate	New	+2:-15			40%	40%
<b>ARGUS PROPANE (SAUDI ARAMCO) SWAP FUTURES (NY-9N - CME) vs NEW YORK HARBOR RESIDUAL FUEL 1.0% (PLATTS) SWAP FUTURES (NY-MM - CME)</b>						
Spread Credit Rate	Increase	+2:-15	30%	30%	50%	50%

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Inter-commodity Spread Rates</b>						
<b>ARGUS PROPANE (SAUDI ARAMCO) SWAP FUTURES (NY-9N - CME) vs RBOB GASOLINE FUTURES (NY-RB - CME)</b>						
Spread Credit Rate	Increase	+2:-15	35%	35%	50%	50%
<b>ARGUS PROPANE (SAUDI ARAMCO) SWAP FUTURES (NY-9N - CME) vs SINGAPORE NAPHTHA (PLATTS) SWAP FUTURES (NY-SP - CME)</b>						
Spread Credit Rate	Increase	+2:-15	30%	30%	55%	55%
<b>ARGUS PROPANE FAR EAST INDEX SWAP FUTURES (NY-7E - CME) vs GASOLINE EURO-BOB OXY (ARGUS) NWE BARGES SWAP FUTURES (NY-7H - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	30%	30%	0%	0%
<b>ARGUS PROPANE FAR EAST INDEX SWAP FUTURES (NY-7E - CME) vs PREMIUM UNLEADED GASOLINE 10 PPM (PLATTS) FOB MED SWAP FUTURES (NY-3G - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	30%	30%	0%	0%
<b>BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME) vs EUROPEAN 3.5% FUEL OIL (PLATTS) BARGES FOB RDAM CALENDAR SWAP FUTURES (NY-UV - CME)</b>						
Spread Credit Rate	Increase	+19:-3	60%	60%	80%	80%
<b>BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME) vs EUROPEAN 3.5% FUEL OIL (PLATTS) BARGES FOB RDAM CALENDAR SWAP FUTURES (NY-UV - CME).</b>						
Spread Credit Rate	Increase	+19:-3	60%	60%	80%	80%
<b>BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME) vs HEATING OIL CALENDAR SWAP FUTURES (NY-MP - CME)</b>						
Spread Credit Rate	Increase	+1:-1	55%	55%	65%	65%
<b>BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME) vs HEATING OIL FINANCIAL FUTURES (NY-BH - CME)</b>						
Spread Credit Rate	Increase	+1:-1	50%	50%	65%	65%
<b>BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME) vs HEATING OIL LAST DAY FINANCIAL FUTURES (NY-23 - CME)</b>						
Spread Credit Rate	Increase	+1:-1	50%	50%	65%	65%
<b>BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME) vs NEW YORK HARBOR NO. 2 HEATING OIL FUTURES (NY-HO - CME)</b>						
Spread Credit Rate	Increase	+1:-1	50%	50%	65%	65%
<b>BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME) vs SINGAPORE NAPHTHA (PLATTS) SWAP FUTURES (NY-SP - CME)</b>						
Spread Credit Rate	Increase	+1:-1	45%	45%	75%	75%
<b>BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME) vs SINGAPORE NAPHTHA (PLATTS) SWAP FUTURES (NY-SP - CME).</b>						
Spread Credit Rate	Increase	+1:-1	45%	45%	75%	75%
<b>BRENT CRUDE OIL BULLET SWAP FINANCIAL (NYM-BB, BZ, CY) vs EUROPEAN 3.5% FUEL OIL ROTTERDAM BALMO CALENDAR SWAP (NYM-UV - CME)</b>						
Spread Credit Rate	Increase	+19:-3	60%	60%	80%	80%
<b>BRENT CRUDE OIL BULLET SWAP FINANCIAL (NYM-BB, BZ, CY) vs HEATING OIL (NYM-HO, BH, MP)</b>						
Spread Credit Rate	Increase	+1:-1	50%	50%	65%	65%

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Inter-commodity Spread Rates</b>						
<b>BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME) vs EUROPEAN 3.5% FUEL OIL (PLATTS) BARGES FOB RDAM CALENDAR SWAP FUTURES (NY-UV - CME)</b>						
Spread Credit Rate	Increase	+19:-3	60%	60%	80%	80%
<b>BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME) vs HEATING OIL FINANCIAL FUTURES (NY-BH - CME)</b>						
Spread Credit Rate	Increase	+1:-1	55%	55%	65%	65%
<b>BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME) vs HEATING OIL LAST DAY FINANCIAL FUTURES (NY-23 - CME)</b>						
Spread Credit Rate	Increase	+1:-1	50%	50%	65%	65%
<b>BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME) vs NEW YORK HARBOR NO. 2 HEATING OIL FUTURES (NY-HO - CME)</b>						
Spread Credit Rate	Increase	+1:-1	50%	50%	65%	65%
<b>BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME) vs NY 3.0% FUEL OIL (PLATTS) SWAP FUTURES (NY-H1 - CME)</b>						
Spread Credit Rate	Increase	+1:-1	55%	55%	70%	70%
<b>BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME) vs SINGAPORE NAPHTHA (PLATTS) SWAP FUTURES (NY-SP - CME)</b>						
Spread Credit Rate	Increase	+1:-1	45%	45%	75%	75%
<b>BRENT CRUDE OIL PENULTIMATE FINANCIAL FUTURES (NY-BB - CME) vs HEATING OIL FINANCIAL FUTURES (NY-BH - CME)</b>						
Spread Credit Rate	Increase	+1:-1	50%	50%	65%	65%
<b>BRENT CRUDE OIL PENULTIMATE FINANCIAL FUTURES (NY-BB - CME) vs HEATING OIL LAST DAY FINANCIAL FUTURES (NY-23 - CME)</b>						
Spread Credit Rate	Increase	+1:-1	50%	50%	65%	65%
<b>BRENT CRUDE OIL PENULTIMATE FINANCIAL FUTURES (NY-BB - CME) vs NY 3.0% FUEL OIL (PLATTS) SWAP FUTURES (NY-H1 - CME)</b>						
Spread Credit Rate	Increase	+1:-1	55%	55%	70%	70%
<b>BRENT CRUDE OIL PENULTIMATE FINANCIAL FUTURES (NY-BB - CME) vs SINGAPORE NAPHTHA (PLATTS) SWAP FUTURES (NY-SP - CME)</b>						
Spread Credit Rate	Increase	+1:-1	45%	45%	75%	75%
<b>BRENT CRUDE OIL PENULTIMATE FINANCIAL FUTURES (NY-BB, BZ, CY) vs GASOIL 0.1 (PLATTS) CARGOES FOB NWE SWAP FUTURES (NY-WR - CME)</b>						
Spread Credit Rate	Increase	+15:-2	50%	50%	70%	70%
<b>CONWAY NATURAL GASOLINE (OPIS) SWAP FUTURES (NY-8L - CME) vs SINGAPORE JET KEROSENE (PLATTS) SWAP FUTURES (NY-KS - CME)</b>						
Spread Credit Rate	Increase	+1:-1	30%	30%	45%	45%
<b>CRUDE OIL FINANCIAL FUTURES (NY-WS - CME) vs EUROPEAN 3.5% FUEL OIL (PLATTS) CARGOES FOB MED CALENDAR SWAP FUTURES (NY-UI - CME)</b>						
Spread Credit Rate	Decrease	+33:-5	65%	65%	55%	55%

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Inter-commodity Spread Rates</b>						
<b>CRUDE OIL FINANCIAL FUTURES (NY-WS - CME) vs NY 3.0% FUEL OIL (PLATTS) SWAP FUTURES (NY-H1 - CME)</b>						
Spread Credit Rate	Increase	+1:-1	50%	50%	65%	65%
<b>CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-26 - CME) vs EUROPEAN 3.5% FUEL OIL (PLATTS) CARGOES FOB MED CALENDAR SWAP FUTURES (NY-UI - CME)</b>						
Spread Credit Rate	Decrease	+33:-5	65%	65%	55%	55%
<b>CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-26 - CME) vs NY 3.0% FUEL OIL (PLATTS) SWAP FUTURES (NY-H1 - CME)</b>						
Spread Credit Rate	Increase	+1:-1	50%	50%	65%	65%
<b>DATED BRENT (PLATTS) CALENDAR SWAP FUTURES (NY-UB - CME) vs RBOB GASOLINE CALENDAR SWAP FUTURES (NY-RL - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	80%	80%	65%	65%
<b>DATED BRENT (PLATTS) CALENDAR SWAP FUTURES (NY-UB - CME) vs RBOB GASOLINE FINANCIAL FUTURES (NY-RT - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	80%	80%	65%	65%
<b>DATED BRENT (PLATTS) CALENDAR SWAP FUTURES (NY-UB - CME) vs RBOB GASOLINE FUTURES (NY-RB - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	75%	75%	65%	65%
<b>DATED BRENT (PLATTS) CALENDAR SWAP FUTURES (NY-UB - CME) vs RBOB GASOLINE LAST DAY FINANCIAL FUTURES (NY-27 - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	80%	80%	65%	65%
<b>DME OMAN CRUDE OIL SWAP FUTURES (NY-DOO - CME) vs SINGAPORE MOGAS 92 UNLEADED (PLATTS) SWAP FUTURES (NY-1N - CME)</b>						
Spread Credit Rate	Increase	+1:-1	60%	60%	65%	65%
<b>EIA FLAT TAX ON-HIGHWAY DIESEL SWAP FUTURES (NY-A5 - CME) vs DATED BRENT (PLATTS) CALENDAR SWAP FUTURES (NY-UB - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	80%	80%	70%	70%
<b>EIA FLAT TAX ON-HIGHWAY DIESEL SWAP FUTURES (NY-A5 - CME) vs HEATING OIL CALENDAR SWAP FUTURES (NY-MP - CME)</b>						
Spread Credit Rate	Increase	+1:-1	70%	70%	90%	90%
<b>EIA FLAT TAX ON-HIGHWAY DIESEL SWAP FUTURES (NY-A5 - CME) vs NEW YORK HARBOR NO. 2 HEATING OIL FUTURES (NY-HO, BH, MP)</b>						
Spread Credit Rate	Increase	+1:-1	70%	70%	90%	90%
<b>EIA FLAT TAX ON-HIGHWAY DIESEL SWAP FUTURES (NY-A5 - CME) vs SINGAPORE MOGAS 92 UNLEADED (PLATTS) SWAP FUTURES (NY-1N - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	65%	65%	55%	55%
<b>EUROPEAN 1% FUEL OIL (PLATTS) BARGES FOB RDAM CALENDAR SWAP FUTURES (NY-UH - CME) vs EUROPEAN 3.5% FUEL OIL (PLATTS) CARGOES FOB MED CALENDAR SWAP FUTURES (NY-UI - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	80%	80%	65%	65%
<b>EUROPEAN 1% FUEL OIL (PLATTS) BARGES FOB RDAM CALENDAR SWAP FUTURES (NY-UH - CME) vs LIGHT SWEET CRUDE OIL FUTURES (NY-CL - CME)</b>						
Spread Credit Rate	Decrease	+5:-33	70%	70%	60%	60%



## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Inter-commodity Spread Rates</b>						
<b>EUROPEAN 1% FUEL OIL (PLATTS) BARGES FOB RDAM CALENDAR SWAP FUTURES (NY-UH - CME) vs WTI CALENDAR SWAP FUTURES (NY-CS - CME)</b>						
Spread Credit Rate	Decrease	+5:-33	70%	70%	60%	60%
<b>EUROPEAN 1% FUEL OIL (PLATTS) BARGES FOB RDAM CALENDAR SWAP FUTURES (NY-UH - CME) vs WTI CALENDAR SWAP FUTURES (NY-CS - CME).</b>						
Spread Credit Rate	Decrease	+5:-33	70%	70%	60%	60%
<b>EUROPEAN 1% FUEL OIL (PLATTS) CARGOES FOB NWE CALENDAR SWAP FUTURES (NY-UF - CME) vs DATED BRENT (PLATTS) CALENDAR SWAP FUTURES (NY-UB - CME)</b>						
Spread Credit Rate	Decrease	+19:-3	75%	75%	65%	65%
<b>EUROPEAN 1% FUEL OIL CARGOES FOB MED (PLATTS) SWAP FUTURES (NY-EFM - CME) vs EUROPEAN 1% FUEL OIL (PLATTS) CARGOES FOB NWE CALENDAR SWAP FUTURES (NY-UF - CME)</b>						
Spread Credit Rate	Increase	+1:-1	50%	50%	75%	75%
<b>EUROPEAN 1% FUEL OIL ROTTERDAM CALENDAR SWAP (NYM-UH - CME) vs EUROPEAN 3.5% FUEL OIL MED CALENDAR SWAP (MEDITERR (NYM-UI - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	80%	80%	65%	65%
<b>EUROPEAN 3.5% FUEL OIL (PLATTS) BARGES FOB RDAM CALENDAR SWAP FUTURES (NY-UV - CME) vs EUROPEAN NAPHTHA (PLATTS) CALENDAR SWAP FUTURES (NY-UN - CME)</b>						
Spread Credit Rate	Increase	+1:-1	50%	50%	65%	65%
<b>EUROPEAN 3.5% FUEL OIL (PLATTS) CARGOES FOB MED CALENDAR SWAP FUTURES (NY-UI - CME) vs EUROPEAN 1% FUEL OIL (PLATTS) CARGOES FOB NWE CALENDAR SWAP FUTURES (NY-UF - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	80%	80%	65%	65%
<b>EUROPEAN 3.5% FUEL OIL (PLATTS) CARGOES FOB MED CALENDAR SWAP FUTURES (NY-UI - CME) vs WTI CALENDAR SWAP FUTURES (NY-CS - CME)</b>						
Spread Credit Rate	Decrease	+5:-33	65%	65%	55%	55%
<b>EUROPEAN 3.5% FUEL OIL (PLATTS) CARGOES FOB MED CALENDAR SWAP FUTURES (NY-UI - CME) vs WTI CALENDAR SWAP FUTURES (NY-CS - CME).</b>						
Spread Credit Rate	Decrease	+5:-33	65%	65%	55%	55%
<b>EUROPEAN 3.5% FUEL OIL MED CALENDAR SWAP (MEDITERR (NYM-UI - CME) vs LIGHT, SWEET CRUDE OIL FUTURES (NYM-CL, CS, WS)</b>						
Spread Credit Rate	Decrease	+5:-33	65%	65%	55%	55%
<b>EUROPEAN 3.5% FUEL OIL ROTTERDAM CALENDAR SWAP (NYM-UV - CME) vs EUROPEAN 3.5% FUEL OIL MED CALENDAR SWAP (MEDITERR (NYM-UI - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	90%	90%	70%	70%
<b>EUROPEAN JET KEROSENE (PLATTS) CARGOES CIF NWE CALENDAR SWAP FUTURES (NY-UJ - CME) vs ARGUS PROPANE FAR EAST INDEX SWAP FUTURES (NY-7E - CME)</b>						
Spread Credit Rate	New	+1:-1			30%	30%
<b>EUROPEAN JET KEROSENE (PLATTS) CARGOES CIF NWE CALENDAR SWAP FUTURES (NY-UJ - CME) vs CONWAY NATURAL GASOLINE (OPIS) SWAP FUTURES (NY-8L - CME)</b>						
Spread Credit Rate	Increase	+2:-15	25%	25%	45%	45%

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Inter-commodity Spread Rates</b>						
<b>EUROPEAN JET KEROSENE (PLATTS) CARGOES CIF NWE CALENDAR SWAP FUTURES (NY-UJ - CME) vs DME OMAN CRUDE OIL SWAP FUTURES (NY-DOO - CME)</b>						
Spread Credit Rate	Decrease	+2:-15	70%	70%	65%	65%
<b>EUROPEAN JET KEROSENE (PLATTS) CARGOES CIF NWE CALENDAR SWAP FUTURES (NY-UJ - CME) vs EUROPEAN 3.5% FUEL OIL (PLATTS) BARGES FOB RDAM CALENDAR SWAP FUTURES (NY-UV - CME)</b>						
Spread Credit Rate	Increase	+1:-1	40%	40%	55%	55%
<b>EUROPEAN JET KEROSENE (PLATTS) CARGOES CIF NWE CALENDAR SWAP FUTURES (NY-UJ - CME) vs EUROPEAN NAPHTHA (PLATTS) CALENDAR SWAP FUTURES (NY-UA - CME)</b>						
Spread Credit Rate	Increase	+1:-1	40%	40%	55%	55%
<b>EUROPEAN JET KEROSENE (PLATTS) CARGOES CIF NWE CALENDAR SWAP FUTURES (NY-UJ - CME) vs EUROPEAN NAPHTHA (PLATTS) CALENDAR SWAP FUTURES (NY-UN - CME)</b>						
Spread Credit Rate	Increase	+1:-1	40%	40%	60%	60%
<b>EUROPEAN JET KEROSENE (PLATTS) CARGOES CIF NWE CALENDAR SWAP FUTURES (NY-UJ - CME) vs EUROPEAN PROPANE CIF ARA (ARGUS) SWAP FUTURES (NY-PS - CME)</b>						
Spread Credit Rate	New	+1:-1			40%	40%
<b>EUROPEAN JET KEROSENE (PLATTS) CARGOES CIF NWE CALENDAR SWAP FUTURES (NY-UJ - CME) vs JAPAN C&amp;F NAPHTHA (PLATTS) SWAP FUTURES (NY-JA - CME)</b>						
Spread Credit Rate	Increase	+1:-1	40%	40%	60%	60%
<b>EUROPEAN JET KEROSENE (PLATTS) CARGOES CIF NWE CALENDAR SWAP FUTURES (NY-UJ - CME) vs MONT BELVIEU ISO-BUTANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-8I - CME)</b>						
Spread Credit Rate	New	+2:-15			55%	55%
<b>EUROPEAN JET KEROSENE (PLATTS) CARGOES CIF NWE CALENDAR SWAP FUTURES (NY-UJ - CME) vs MONT BELVIEU NORMAL BUTANE LDH (OPIS) SWAP FUTURES (NY-MNB - CME)</b>						
Spread Credit Rate	Increase	+2:-15	0%	0%	60%	60%
<b>EUROPEAN JET KEROSENE (PLATTS) CARGOES CIF NWE CALENDAR SWAP FUTURES (NY-UJ - CME) vs OMAN CRUDE OIL (NY-OQ - CME)</b>						
Spread Credit Rate	Increase	+2:-15	50%	50%	65%	65%
<b>EUROPEAN JET KEROSENE (PLATTS) CARGOES CIF NWE CALENDAR SWAP FUTURES (NY-UJ - CME) vs PROPANE NON-LDH MONT BELVIEU (OPIS) SWAP FUTURES (NY-1R - CME)</b>						
Spread Credit Rate	Increase	+2:-15	30%	30%	50%	50%
<b>EUROPEAN JET KEROSENE (PLATTS) CARGOES CIF NWE CALENDAR SWAP FUTURES (NY-UJ - CME) vs SINGAPORE FUEL OIL 180 CST (PLATTS) CALENDAR SWAP FUTURES (NY-UA - CME)</b>						
Spread Credit Rate	Increase	+1:-1	40%	40%	55%	55%
<b>EUROPEAN NAPHTHA (PLATTS) CALENDAR SWAP FUTURES (NY-UN - CME) vs CONWAY NATURAL GASOLINE (OPIS) SWAP FUTURES (NY-8L - CME)</b>						
Spread Credit Rate	New	+2:-15			35%	35%
<b>EUROPEAN NAPHTHA (PLATTS) CALENDAR SWAP FUTURES (NY-UN - CME) vs DATED BRENT (PLATTS) CALENDAR SWAP FUTURES (NY-UB - CME)</b>						
Spread Credit Rate	Decrease	+1:-9	75%	75%	60%	60%

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Inter-commodity Spread Rates</b>						
<b>EUROPEAN NAPHTHA (PLATTS) CALENDAR SWAP FUTURES (NY-UN - CME) vs GULF COAST ULSD (PLATTS) SWAP FUTURES (NY-LY - CME)</b>						
Spread Credit Rate	Decrease	+2:-15	70%	70%	65%	65%
<b>EUROPEAN NAPHTHA (PLATTS) CALENDAR SWAP FUTURES (NY-UN - CME) vs SINGAPORE NAPHTHA (PLATTS) SWAP FUTURES (NY-SP - CME)</b>						
Spread Credit Rate	Increase	+1:-9	55%	55%	80%	80%
<b>EUROPEAN PROPANE CIF ARA (ARGUS) SWAP FUTURES (NY-PS - CME) vs EUROPEAN 1% FUEL OIL (PLATTS) BARGES FOB RDAM CALENDAR SWAP FUTURES (NY-UH - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	40%	40%	30%	30%
<b>EUROPEAN PROPANE CIF ARA (ARGUS) SWAP FUTURES (NY-PS - CME) vs EUROPEAN 1% FUEL OIL (PLATTS) CARGOES FOB NWE CALENDAR SWAP FUTURES (NY-UF - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	40%	40%	30%	30%
<b>EUROPEAN PROPANE CIF ARA (ARGUS) SWAP FUTURES (NY-PS - CME) vs SINGAPORE NAPHTHA (PLATTS) SWAP FUTURES (NY-SP - CME)</b>						
Spread Credit Rate	Decrease	+10:-1	50%	50%	40%	40%
<b>EUROPEAN PROPANE CIF ARA (ARGUS) SWAP FUTURES (NY-PS) vs. GULF COAST ULSD (PLATTS) SWAP FUTURES (NY-LY)</b>						
Spread Credit Rate	Decrease	+2:-15	40%	40%	30%	30%
Spread Credit Rate	Decrease	+2:-15	40%	40%	30%	30%
<b>EUROPEAN PROPANE CIF ARA (ARGUS) SWAP FUTURES (NY-PS) vs. SINGAPORE FUEL OIL 180 CST (PLATTS) CALENDAR SWAP FUTURES (NY-UA)</b>						
Spread Credit Rate	Decrease	+1:-1	45%	45%	30%	30%
Spread Credit Rate	Decrease	+1:-1	45%	45%	30%	30%
<b>GAS EURO-BOB OXY (ARG) CRACK (NY-7k) vs PREMIUM UNLD 10P FOB MED SWP (NY-3G)</b>						
Spread Credit Rate	Decrease	+1:-1	50%	50%	30%	30%
<b>GASOIL 0.1 (PLATTS) CARGOES CIF MED SWAP FUTURES (NY-Z4 - CME) vs GASOIL 0.1 (PLATTS) CARGOES CIF NWE SWAP FUTURES (NY-TW - CME)</b>						
Spread Credit Rate	Increase	+1:-1	75%	75%	95%	95%
<b>GASOLINE EURO-BOB OXY (ARGUS) NWE BARGES SWAP FUTURES (NY-7H - CME) vs EUROPEAN NAPHTHA (PLATTS) CALENDAR SWAP FUTURES (NY-UN - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	75%	75%	65%	65%
<b>GASOLINE EURO-BOB OXY (ARGUS) NWE BARGES SWAP FUTURES (NY-7H - CME) vs SINGAPORE GASOIL (PLATTS) SWAP FUTURES (NY-SG - CME)</b>						
Spread Credit Rate	Increase	+2:-15	45%	45%	60%	60%
<b>GROUP THREE ULSD (PLATTS) SWAP FUTURES (NY-A7 - CME) vs HEATING OIL CALENDAR SWAP FUTURES (NY-MP - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	80%	80%	60%	60%
<b>GROUP THREE ULSD (PLATTS) SWAP FUTURES (NY-A7 - CME) vs NEW YORK HARBOR NO. 2 HEATING OIL FUTURES (NY-HO, MP, BH)</b>						
Spread Credit Rate	Decrease	+1:-1	80%	80%	60%	60%

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Inter-commodity Spread Rates</b>						
<b>GULF COAST JET (ARGUS) CALENDAR SWAP FUTURES (NY-AF - CME) vs HEATING OIL CALENDAR SWAP FUTURES (NY-MP - CME)</b>						
Spread Credit Rate	Increase	+1:-1	45%	45%	70%	70%
<b>GULF COAST JET (ARGUS) CALENDAR SWAP FUTURES (NY-AF - CME) vs NEW YORK HARBOR NO. 2 HEATING OIL FUTURES (NY-HO, BH, MP)</b>						
Spread Credit Rate	Increase	+1:-1	45%	45%	70%	70%
<b>GULF COAST JET FUEL (PLATTS) CALENDAR SWAP FUTURES (NY-GE - CME) vs MONT BELVIEU NATURAL GASOLINE 5 DECIMALS (OPIS) SWAP FUTURES (NY-7Q - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	65%	65%	60%	60%
<b>GULF COAST JET FUEL (PLATTS) CALENDAR SWAP FUTURES (NY-GE - CME) vs MONT BELVIEU NORMAL BUTANE LDH (OPIS) SWAP FUTURES (NY-MNB - CME)</b>						
Spread Credit Rate	Increase	+1:-1	40%	40%	60%	60%
<b>GULF COAST JET FUEL (PLATTS) CALENDAR SWAP FUTURES (NY-GE - CME) vs SINGAPORE MOGAS 92 UNLEADED (PLATTS) SWAP FUTURES (NY-1N - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	75%	75%	60%	60%
<b>GULF COAST NO. 6 FUEL OIL 3.0% (PLATTS) SWAP FUTURES (NY-MF - CME) vs PREMIUM UNLEADED GASOLINE 10 PPM (PLATTS) FOB MED SWAP FUTURES (NY-3G - CME)</b>						
Spread Credit Rate	Decrease	+15:-2	60%	60%	45%	45%
<b>GULF COAST NO. 6 FUEL OIL 3.0% (PLATTS) SWAP FUTURES (NY-MF - CME) vs SINGAPORE NAPHTHA (PLATTS) SWAP FUTURES (NY-SP - CME)</b>						
Spread Credit Rate	Increase	+1:-1	30%	30%	65%	65%
<b>GULF COAST ULSD (PLATTS) SWAP FUTURES (NY-LY - CME) vs MONT BELVIEU NATURAL GASOLINE 5 DECIMALS (OPIS) SWAP FUTURES (NY-7Q - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	65%	65%	60%	60%
<b>GULF COAST ULSD CALENDAR SWAP (NY-LY) vs NY 3.0% FUEL OIL (PLATTS) SWP (NY-H1)</b>						
Spread Credit Rate	Increase	+1:-1	30%	30%	60%	60%
<b>GULF COAST UNL 87 (PLATTS) CALENDAR SWAP FUTURES (NY-GS - CME) vs CHICAGO ETHANOL (PLATTS) SWAP FUTURES (NY-CU - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	25%	25%	0%	0%
<b>GULF COAST UNL 87 (PLATTS) CALENDAR SWAP FUTURES (NY-GS - CME) vs GASOLINE EURO-BOB OXY (ARGUS) NWE BARGES SWAP FUTURES (NY-7H - CME)</b>						
Spread Credit Rate	Decrease	+15:-2	80%	80%	70%	70%
<b>GULF COAST UNL 87 (PLATTS) CALENDAR SWAP FUTURES (NY-GS - CME) vs MONT BELVIEU ISO-BUTANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-8I - CME)</b>						
Spread Credit Rate	New	+1:-1			45%	45%
<b>GULF COAST UNL 87 (PLATTS) CALENDAR SWAP FUTURES (NY-GS - CME) vs MONT BELVIEU LDH PROPANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-B0 - CME)</b>						
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
<b>Inter-commodity Spread Rates</b>						
<b>GULF COAST UNL 87 (PLATTS) CALENDAR SWAP FUTURES (NY-GS - CME) vs MONT BELVIEU NORMAL BUTANE LDH (OPIS) SWAP FUTURES (NY-MNB - CME)</b>						
Spread Credit Rate	Increase	+1:-1	30%	30%	50%	50%
<b>GULF COAST UNL 87 (PLATTS) CALENDAR SWAP FUTURES (NY-GS - CME) vs NEW YORK HARBOR RESIDUAL FUEL 1.0% (PLATTS) SWAP FUTURES (NY-MM - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	65%	65%	55%	55%
<b>GULF COAST UNL 87 (PLATTS) CALENDAR SWAP FUTURES (NY-GS - CME) vs PREMIUM UNLEADED GASOLINE 10 PPM (PLATTS) FOB MED SWAP FUTURES (NY-3G - CME)</b>						
Spread Credit Rate	Decrease	+15:-2	80%	80%	65%	65%
<b>GULF COAST UNL 87 (PLATTS) CALENDAR SWAP FUTURES (NY-GS - CME) vs SINGAPORE JET KEROSENE (PLATTS) SWAP FUTURES (NY-KS - CME)</b>						
Spread Credit Rate	Increase	+1:-1	40%	40%	60%	60%
<b>HEATING OIL CALENDAR SWAP FUTURES (NY-MP - CME) vs MONT BELVIEU PHYSICAL NORMAL BUTANE (OPIS) FUTURES (NY-3M - CME)</b>						
Spread Credit Rate	Increase	+1:-1	30%	30%	60%	60%
<b>HEATING OIL CALENDAR SWAP FUTURES (NY-MP - CME) vs NEW YORK HARBOR RESIDUAL FUEL 1.0% (PLATTS) SWAP FUTURES (NY-MM - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	75%	75%	65%	65%
<b>HEATING OIL CALENDAR SWAP FUTURES (NY-MP - CME) vs NY 3.0% FUEL OIL (PLATTS) SWAP FUTURES (NY-H1 - CME)</b>						
Spread Credit Rate	Increase	+1:-1	30%	30%	60%	60%
<b>HEATING OIL LAST DAY FINANCIAL FUTURES (NY-23 - CME) vs NY RBOB (PLATTS) CALENDAR SWAP FUTURES (NY-RY - CME)</b>						
Spread Credit Rate	Increase	+1:-1	60%	60%	75%	75%
<b>HEATING/CRUDE SPREAD COMBO (NY-HC - CME) vs HEATING OIL CALENDAR SWAP FUTURES (NY-MP - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	45%	45%	35%	35%
<b>HEATING/CRUDE SPREAD COMBO (NYM-HC - CME) vs HEATING OIL FINANCIAL FUTURES (NYM-HO, BH, MP)</b>						
Spread Credit Rate	Decrease	+1:-1	45%	45%	35%	35%
<b>JAPAN C&amp;F NAPHTHA (PLATTS) SWAP FUTURES (NY-JA - CME) vs CONWAY NATURAL GASOLINE (OPIS) SWAP FUTURES (NY-8L - CME)</b>						
Spread Credit Rate	New	+2:-15			35%	35%
<b>JAPAN C&amp;F NAPHTHA (PLATTS) SWAP FUTURES (NY-JA - CME) vs DATED BRENT (PLATTS) CALENDAR SWAP FUTURES (NY-UB - CME)</b>						
Spread Credit Rate	Decrease	+1:-9	75%	75%	60%	60%
<b>JAPAN C&amp;F NAPHTHA (PLATTS) SWAP FUTURES (NY-JA - CME) vs EUROPEAN 3.5% FUEL OIL (PLATTS) BARGES FOB RDAM CALENDAR SWAP FUTURES (NY-UV - CME)</b>						
Spread Credit Rate	Increase	+1:-1	50%	50%	70%	70%
<b>JAPAN C&amp;F NAPHTHA (PLATTS) SWAP FUTURES (NY-JA - CME) vs SINGAPORE FUEL OIL 180 CST (PLATTS) CALENDAR SWAP FUTURES (NY-UA - CME)</b>						
Spread Credit Rate	Increase	+1:-1	50%	50%	65%	65%

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Inter-commodity Spread Rates</b>						
<b>JAPAN C&amp;F NAPHTHA (PLATTS) SWAP FUTURES (NY-JA - CME) vs SINGAPORE FUEL OIL 380 CST (PLATTS) SWAP FUTURES (NY-SE - CME)</b>						
Spread Credit Rate	Increase	+1:-1	50%	50%	65%	65%
<b>JAPAN C&amp;F NAPHTHA (PLATTS) SWAP FUTURES (NY-JA - CME) vs SINGAPORE MOGAS 92 UNLEADED (PLATTS) SWAP FUTURES (NY-1N - CME)</b>						
Spread Credit Rate	Decrease	+2:-15	65%	65%	55%	55%
<b>JAPAN C&amp;F NAPHTHA (PLATTS) SWAP FUTURES (NY-JA) vs. MONT BELVIEU LDH PROPANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-B0)</b>						
Spread Credit Rate	Increase	+2:-15	35%	35%	50%	50%
Spread Credit Rate	Increase	+2:-15	35%	35%	50%	50%
<b>JAPAN C&amp;F NAPHTHA (PLATTS) SWAP FUTURES (NY-UV - CME) vs GULF COAST NO. 6 FUEL OIL 3.0% (PLATTS) SWAP FUTURES (NY-KS - CME)</b>						
Spread Credit Rate	Increase	+2:-15	40%	40%	55%	55%
<b>JAPAN C&amp;F NAPHTHA (PLATTS) SWAP FUTURES (NY-UV - CME) vs GULF COAST NO. 6 FUEL OIL 3.0% (PLATTS) SWAP FUTURES (NY-SP - CME)</b>						
Spread Credit Rate	Increase	+2:-15	30%	30%	65%	65%
<b>LA CARB DIESEL (OPIS) (NY-LX) vs NY HARBOR RESIDUAL FUEL 1.0% S (NY-MM)</b>						
Spread Credit Rate	Decrease	+1:-1	65%	65%	55%	55%
<b>LIGHT SWEET CRUDE OIL FUTURES (NY-CL - CME) vs EUROPEAN 1% FUEL OIL (PLATTS) CARGOES FOB NWE CALENDAR SWAP FUTURES (NY-UF - CME)</b>						
Spread Credit Rate	Decrease	+33:-5	70%	70%	60%	60%
<b>LIGHT SWEET CRUDE OIL FUTURES (NY-CL, CS, WS) vs NY HEATING OIL (PLATTS) SWAP FUTURES (NY-YF - CME)</b>						
Spread Credit Rate	Increase	+1:-1	40%	40%	70%	70%
<b>LIGHT SWEET CRUDE OIL FUTURES (NY-CL, CS, WS) vs NY ULSD (PLATTS) SWAP FUTURES (NY-YS - CME)</b>						
Spread Credit Rate	Increase	+1:-1	50%	50%	70%	70%
<b>LIGHT, SWEET CRUDE OIL FUTURES (NYM-CL, CS, WS) vs NEW YORK 3.0% FUEL OIL (PLATTS) SWAP (NYM-H1 - CME)</b>						
Spread Credit Rate	Increase	+1:-1	50%	50%	65%	65%
<b>LLS (ARGUS) CALENDAR SWAP FUTURES (NY-XA - CME) vs GULF COAST NO. 6 FUEL OIL 3.0% (PLATTS) SWAP FUTURES (NY-MF - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	60%	60%	50%	50%
<b>LOS ANGELES CARB DIESEL (OPIS) OUTRIGHT SWAP FUT (NY-LX) vs. SINGAPORE NAPHTHA (PLATTS) SWAP FUT (NY-SP)</b>						
Spread Credit Rate	Increase	+1:-1	50%	50%	65%	65%
Spread Credit Rate	Increase	+1:-1	50%	50%	65%	65%
<b>LOS ANGELES CARB DIESEL (OPIS) OUTRIGHT SWAP FUTURES (NY-LX - CME) vs CONWAY NATURAL GASOLINE (OPIS) SWAP FUTURES (NY-8L - CME)</b>						
Spread Credit Rate	New	+1:-1			30%	30%

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Inter-commodity Spread Rates</b>						
<b>LOS ANGELES CARB DIESEL (OPIS) OUTRIGHT SWAP FUTURES (NY-LX - CME) vs EUROPEAN 1% FUEL OIL (PLATTS) BARGES FOB RDAM CALENDAR SWAP FUTURES (NY-UH - CME)</b>						
Spread Credit Rate	Decrease	+15:-2	60%	60%	50%	50%
<b>LOS ANGELES CARB DIESEL (OPIS) OUTRIGHT SWAP FUTURES (NY-LX - CME) vs EUROPEAN 1% FUEL OIL (PLATTS) CARGOES FOB NWE CALENDAR SWAP FUTURES (NY-UF - CME)</b>						
Spread Credit Rate	Decrease	+15:-2	60%	60%	50%	50%
<b>LOS ANGELES CARB DIESEL (OPIS) OUTRIGHT SWAP FUTURES (NY-LX - CME) vs GULF COAST NO. 6 FUEL OIL 3.0% (PLATTS) SWAP FUTURES (NY-MF - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	75%	75%	50%	50%
<b>LOS ANGELES CARB DIESEL (OPIS) OUTRIGHT SWAP FUTURES (NY-LX - CME) vs MONT BELVIEU ISO-BUTANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-8I - CME)</b>						
Spread Credit Rate	New	+1:-1			50%	50%
<b>LOS ANGELES CARB DIESEL (OPIS) OUTRIGHT SWAP FUTURES (NY-LX - CME) vs MONT BELVIEU LDH PROPANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-B0 - CME)</b>						
Spread Credit Rate	New	+1:-1			40%	40%
<b>LOS ANGELES CARB DIESEL (OPIS) OUTRIGHT SWAP FUTURES (NY-LX - CME) vs MONT BELVIEU NORMAL BUTANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-D0 - CME)</b>						
Spread Credit Rate	Increase	+1:-1	35%	35%	50%	50%
<b>LOS ANGELES CARB DIESEL (OPIS) OUTRIGHT SWAP FUTURES (NY-LX - CME) vs MONT BELVIEU NORMAL BUTANE LDH (OPIS) SWAP FUTURES (NY-MNB - CME)</b>						
Spread Credit Rate	New	+1:-1			50%	50%
<b>LOS ANGELES CARB DIESEL (OPIS) OUTRIGHT SWAP FUTURES (NY-LX - CME) vs SINGAPORE MOGAS 92 UNLEADED (PLATTS) SWAP FUTURES (NY-1N - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	65%	65%	55%	55%
<b>LOS ANGELES JET (OPIS) OUTRIGHT SWAP FUTURES (NY-LL - CME) vs HEATING OIL CALENDAR SWAP FUTURES (NY-MP - CME)</b>						
Spread Credit Rate	Increase	+1:-1	50%	50%	65%	65%
<b>LOS ANGELES JET (OPIS) OUTRIGHT SWAP FUTURES (NY-LL - CME) vs NEW YORK HARBOR NO. 2 HEATING OIL FUTURES (NY-HO, BH, MP)</b>						
Spread Credit Rate	Increase	+1:-1	0%	0%	65%	65%
<b>LOS ANGELES JET (OPIS) OUTRIGHT SWAP FUTURES (NY-LL - CME) vs NEW YORK HARBOR NO. 2 HEATING OIL FUTURES (NY-HO, MP, BH)</b>						
Spread Credit Rate	Increase	+1:-1	0%	0%	65%	65%
<b>MONT BELVIEU ISO-BUTANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-8I - CME) vs EUROPEAN 1% FUEL OIL (PLATTS) BARGES FOB RDAM CALENDAR SWAP FUTURES (NY-UH - CME)</b>						
Spread Credit Rate	Increase	+15:-2	30%	30%	45%	45%
<b>MONT BELVIEU ISO-BUTANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-8I - CME) vs SINGAPORE GASOIL (PLATTS) SWAP FUTURES (NY-SG - CME)</b>						
Spread Credit Rate	Increase	+1:-1	40%	40%	55%	55%

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Inter-commodity Spread Rates</b>						
<b>MONT BELVIEU ISO-BUTANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-8I) vs. EUROPEAN 1% FUEL OIL (PLATTS) CARGOES FOB NWE CALENDAR SWAP FUTURES (NY-UF)</b>						
Spread Credit Rate	Increase	+15:-2	30%	30%	45%	45%
Spread Credit Rate	Increase	+15:-2	30%	30%	45%	45%
<b>MONT BELVIEU ISO-BUTANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-8I) vs. GASOLINE EURO-BOB OXY (ARGUS) NWE BARGES SWAP FUTURES (NY-7H)</b>						
Spread Credit Rate	Increase	+15:-2	30%	30%	45%	45%
Spread Credit Rate	Increase	+15:-2	30%	30%	45%	45%
<b>MONT BELVIEU ISO-BUTANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-8I) vs. NEW YORK HARBOR RESIDUAL FUEL 1.0% (PLATTS) SWAP FUTURES (NY-MM)</b>						
Spread Credit Rate	Increase	+1:-1	30%	30%	45%	45%
Spread Credit Rate	Increase	+1:-1	30%	30%	45%	45%
<b>MONT BELVIEU LDH PROPANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-B0 - CME) vs 1% FUEL OIL (PLATTS) CARGOES CIF MED SWAP FUTURES (NY-1W - CME)</b>						
Spread Credit Rate	New	+15:-2			40%	40%
<b>MONT BELVIEU NORMAL BUTANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-D0 - CME) vs GULF COAST NO. 6 FUEL OIL 3.0% (PLATTS) SWAP FUTURES (NY-MF - CME)</b>						
Spread Credit Rate	Increase	+1:-1	40%	40%	60%	60%
<b>MONT BELVIEU NORMAL BUTANE LDH (OPIS) SWAP FUTURES (NY-MNB - CME) vs EUROPEAN 1% FUEL OIL (PLATTS) BARGES FOB RDAM CALENDAR SWAP FUTURES (NY-UH - CME)</b>						
Spread Credit Rate	New	+15:-2			55%	55%
<b>MONT BELVIEU NORMAL BUTANE LDH (OPIS) SWAP FUTURES (NY-MNB - CME) vs EUROPEAN 1% FUEL OIL (PLATTS) CARGOES FOB NWE CALENDAR SWAP FUTURES (NY-UF - CME)</b>						
Spread Credit Rate	New	+15:-2			55%	55%
<b>MONT BELVIEU NORMAL BUTANE LDH (OPIS) SWAP FUTURES (NY-MNB - CME) vs EUROPEAN 3.5% FUEL OIL (PLATTS) BARGES FOB RDAM CALENDAR SWAP FUTURES (NY-UV - CME)</b>						
Spread Credit Rate	New	+15:-2			55%	55%
<b>MONT BELVIEU NORMAL BUTANE LDH (OPIS) SWAP FUTURES (NY-MNB - CME) vs HEATING OIL CALENDAR SWAP FUTURES (NY-MP - CME)</b>						
Spread Credit Rate	Increase	+1:-1	0%	0%	60%	60%
<b>MONT BELVIEU NORMAL BUTANE LDH (OPIS) SWAP FUTURES (NY-MNB - CME) vs NEW YORK HARBOR NO. 2 HEATING OIL FUTURES (NY-HO - CME)</b>						
Spread Credit Rate	Increase	+1:-1	45%	45%	60%	60%
<b>MONT BELVIEU NORMAL BUTANE LDH (OPIS) SWAP FUTURES (NY-MNB - CME) vs NEW YORK HARBOR RESIDUAL FUEL 1.0% (PLATTS) SWAP FUTURES (NY-MM - CME)</b>						
Spread Credit Rate	Increase	+1:-1	40%	40%	55%	55%
<b>MONT BELVIEU NORMAL BUTANE LDH (OPIS) SWAP FUTURES (NY-MNB - CME) vs RBOB GASOLINE FUTURES (NY-RB, RL, RT)</b>						
Spread Credit Rate	Increase	+1:-1	30%	30%	55%	55%



## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Inter-commodity Spread Rates</b>						
<b>MONT BELVIEU NORMAL BUTANE LDH (OPIS) SWAP FUTURES (NY-MNB) vs. EIA FLAT TAX ON-HIGHWAY DIESEL SWAP FUTURES (NY-A5)</b>						
Spread Credit Rate	Increase	+1:-1	40%	40%	55%	55%
<b>MONT BELVIEU NORMAL BUTANE LDH (OPIS) SWAP FUTURES (NY-MNB) vs. EUROPEAN GASOIL (ICE) SWAP FUTURES (NY-GX)</b>						
Spread Credit Rate	Increase	+15:-2	30%	30%	60%	60%
Spread Credit Rate	Increase	+15:-2	30%	30%	60%	60%
<b>MONT BELVIEU NORMAL BUTANE LDH (OPIS) SWAP FUTURES (NY-MNB) vs. EUROPEAN NAPHTHA (PLATTS) CALENDAR SWAP FUTURES (NY-UN)</b>						
Spread Credit Rate	Increase	+15:-2	30%	30%	50%	50%
Spread Credit Rate	Increase	+15:-2	30%	30%	50%	50%
<b>MONT BELVIEU NORMAL BUTANE LDH (OPIS) SWAP FUTURES (NY-MNB) vs. GASOLINE EURO-BOB OXY (ARGUS) NWE BARGES SWAP FUTURES (NY-7H)</b>						
Spread Credit Rate	Increase	+15:-2	40%	40%	55%	55%
<b>MONT BELVIEU NORMAL BUTANE LDH (OPIS) SWAP FUTURES (NY-MNB) vs. SINGAPORE FUEL OIL 180 CST (PLATTS) CALENDAR SWAP FUTURES (NY-UA)</b>						
Spread Credit Rate	Increase	+15:-2	30%	30%	50%	50%
Spread Credit Rate	Increase	+15:-2	30%	30%	50%	50%
<b>MONT BELVIEU NORMAL BUTANE LDH (OPIS) SWAP FUTURES (NY-MNB) vs. SINGAPORE FUEL OIL 380 CST (PLATTS) SWAP FUTURES (NY-SE)</b>						
Spread Credit Rate	Increase	+15:-2	30%	30%	50%	50%
Spread Credit Rate	Increase	+15:-2	30%	30%	50%	50%
<b>MONT BELVIEU NORMAL BUTANE LDH (OPIS) SWAP FUTURES (NY-MNB) vs. SINGAPORE GASOIL (PLATTS) SWAP FUTURES (NY-SG)</b>						
Spread Credit Rate	Increase	+1:-1	45%	45%	65%	65%
Spread Credit Rate	Increase	+1:-1	45%	45%	65%	65%
<b>MONT BELVIEU NORMAL BUTANE LDH (OPIS) SWAP FUTURES (NY-MNB) vs. SINGAPORE JET KEROSENE (PLATTS) SWAP FUTURES (NY-KS)</b>						
Spread Credit Rate	Increase	+1:-1	0%	0%	60%	60%
Spread Credit Rate	Increase	+1:-1	0%	0%	60%	60%
<b>MONT BELVIEU PHYSICAL LDH PROPANE (OPIS) (NYM-3N - CME) vs HEATING OIL (NYM-HO, BH, MP)</b>						
Spread Credit Rate	Decrease	+1:-1	50%	50%	35%	35%
<b>MONT BELVIEU PHYSICAL LDH PROPANE (OPIS) FUTURES (NY-3N - CME) vs HEATING OIL CALENDAR SWAP FUTURES (NY-MP - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	50%	50%	35%	35%
<b>MONT BELVIEU PHYSICAL NON-LDH PROPANE (OPIS) (NYM-3P - CME) vs HEATING OIL (NYM-HO, BH, MP)</b>						
Spread Credit Rate	Increase	+1:-1	35%	35%	50%	50%

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Inter-commodity Spread Rates</b>						
<b>MONT BELVIEU PHYSICAL NON-LDH PROPANE (OPIS) FUTURES (NY-3P - CME) vs HEATING OIL CALENDAR SWAP FUTURES (NY-MP - CME)</b>						
Spread Credit Rate	Increase	+1:-1	35%	35%	50%	50%
<b>NEW YORK 3.0% FUEL OIL (PLATTS) SWAP (NYM-H1 - CME) vs GULF COAST #6 FUEL 3.0% SWAP (NYM-MF - CME)</b>						
Spread Credit Rate	Increase	+1:-1	30%	30%	85%	85%
<b>NEW YORK 3.0% FUEL OIL (PLATTS) SWAP (NYM-H1 - CME) vs NY HARBOR RESIDUAL FUEL 1.0% SWAP (NYM-MM - CME)</b>						
Spread Credit Rate	Increase	+1:-1	30%	30%	70%	70%
<b>NEW YORK HARBOR NO. 2 HEATING OIL FUTURES (NY-HO - CME) vs MONT BELVIEU PHYSICAL NORMAL BUTANE (OPIS) FUTURES (NY-3M - CME)</b>						
Spread Credit Rate	Increase	+1:-1	30%	30%	60%	60%
<b>NEW YORK HARBOR NO. 2 HEATING OIL FUTURES (NY-HO - CME) vs NY 3.0% FUEL OIL (PLATTS) SWAP FUTURES (NY-H1 - CME)</b>						
Spread Credit Rate	Increase	+1:-1	30%	30%	60%	60%
<b>NEW YORK HARBOR NO. 2 HEATING OIL FUTURES (NY-HO - CME) vs SINGAPORE MOGAS 92 UNLEADED (PLATTS) SWAP FUTURES (NY-1N - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	65%	65%	60%	60%
<b>NEW YORK HARBOR NO. 2 HEATING OIL FUTURES (NY-HO, MP, BH) vs MONT BELVIEU PHYSICAL NORMAL BUTANE (OPIS) FUTURES (NY-3M - CME)</b>						
Spread Credit Rate	Increase	+1:-1	30%	30%	60%	60%
<b>NEW YORK HARBOR RESIDUAL FUEL 1.0% (PLATTS) SWAP FUTURES (NY-MM - CME) vs EUROPEAN 1% FUEL OIL (PLATTS) BARGES FOB RDAM CALENDAR SWAP FUTURES (NY-UH - CME)</b>						
Spread Credit Rate	Decrease	+7:-1	80%	80%	70%	70%
<b>NEW YORK HARBOR RESIDUAL FUEL 1.0% (PLATTS) SWAP FUTURES (NY-MM - CME) vs EUROPEAN 1% FUEL OIL (PLATTS) CARGOES FOB NWE CALENDAR SWAP FUTURES (NY-UF - CME)</b>						
Spread Credit Rate	Decrease	+7:-1	80%	80%	70%	70%
<b>NEW YORK HARBOR RESIDUAL FUEL 1.0% (PLATTS) SWAP FUTURES (NY-MM - CME) vs RBOB GASOLINE FINANCIAL FUTURES (NY-RT - CME)</b>						
Spread Credit Rate	New	+1:-1			55%	55%
<b>NEW YORK HARBOR RESIDUAL FUEL 1.0% (PLATTS) SWAP FUTURES (NY-MM - CME) vs SINGAPORE NAPHTHA (PLATTS) SWAP FUTURES (NY-SP - CME)</b>						
Spread Credit Rate	Increase	+1:-1	30%	30%	50%	50%
<b>NY 2.2% FUEL OIL (PLATTS) SWAP FUTURES (NY-H1 - CME) vs SINGAPORE MOGAS 92 UNLEADED (PLATTS) SWAP FUTURES (NY-1N - CME)</b>						
Spread Credit Rate	Increase	+1:-1	30%	30%	60%	60%
<b>NY 3.0% FUEL OIL (PLATTS) SWAP FUTURES (NY-H1 - CME) vs BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME)</b>						
Spread Credit Rate	Increase	+1:-1	55%	55%	70%	70%

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Inter-commodity Spread Rates</b>						
<b>NY 3.0% FUEL OIL (PLATTS) SWAP FUTURES (NY-H1 - CME) vs DME OMAN CRUDE OIL SWAP FUTURES (NY-DOO - CME)</b>						
Spread Credit Rate	Increase	+1:-1	50%	50%	80%	80%
<b>NY 3.0% FUEL OIL (PLATTS) SWAP FUTURES (NY-H1 - CME) vs EUROPEAN NAPHTHA (PLATTS) CALENDAR SWAP FUTURES (NY-UN - CME)</b>						
Spread Credit Rate	Increase	+15:-2	40%	40%	65%	65%
<b>NY 3.0% FUEL OIL (PLATTS) SWAP FUTURES (NY-H1 - CME) vs GASOLINE EURO-BOB OXY (ARGUS) NWE BARGES SWAP FUTURES (NY-7H - CME)</b>						
Spread Credit Rate	Increase	+15:+2	30%	30%	60%	60%
<b>NY 3.0% FUEL OIL (PLATTS) SWAP FUTURES (NY-H1 - CME) vs GULF COAST UNL 87 (PLATTS) CALENDAR SWAP FUTURES (NY-GS - CME)</b>						
Spread Credit Rate	Increase	+1:-1	30%	30%	65%	65%
<b>NY 3.0% FUEL OIL (PLATTS) SWAP FUTURES (NY-H1 - CME) vs JAPAN C&amp;F NAPHTHA (PLATTS) SWAP FUTURES (NY-JA - CME)</b>						
Spread Credit Rate	Increase	+15:-2	50%	50%	65%	65%
<b>NY 3.0% FUEL OIL (PLATTS) SWAP FUTURES (NY-H1 - CME) vs MONT BELVIEU ISO-BUTANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-8I - CME)</b>						
Spread Credit Rate	New	+1:-1			45%	45%
<b>NY 3.0% FUEL OIL (PLATTS) SWAP FUTURES (NY-H1 - CME) vs MONT BELVIEU NATURAL GASOLINE 5 DECIMALS (OPIS) SWAP FUTURES (NY-7Q - CME)</b>						
Spread Credit Rate	Increase	+1:-1	50%	50%	70%	70%
<b>NY 3.0% FUEL OIL (PLATTS) SWAP FUTURES (NY-H1 - CME) vs MONT BELVIEU NORMAL BUTANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-D0 - CME)</b>						
Spread Credit Rate	Increase	+1:-1	30%	30%	60%	60%
<b>NY 3.0% FUEL OIL (PLATTS) SWAP FUTURES (NY-H1 - CME) vs MONT BELVIEU NORMAL BUTANE LDH (OPIS) SWAP FUTURES (NY-MNB - CME)</b>						
Spread Credit Rate	Increase	+1:-1	30%	30%	50%	50%
<b>NY 3.0% FUEL OIL (PLATTS) SWAP FUTURES (NY-H1 - CME) vs NEW YORK HARBOR RESIDUAL FUEL 1.0% (PLATTS) SWAP FUTURES (NY-MM - CME)</b>						
Spread Credit Rate	Increase	+1:-1	30%	30%	70%	70%
<b>NY 3.0% FUEL OIL (PLATTS) SWAP FUTURES (NY-H1 - CME) vs OMAN CRUDE OIL (NY-OQ - CME)</b>						
Spread Credit Rate	Increase	+1:-1	65%	65%	80%	80%
<b>NY 3.0% FUEL OIL (PLATTS) SWAP FUTURES (NY-H1 - CME) vs RBOB GASOLINE FUTURES (NY-27 - CME)</b>						
Spread Credit Rate	Increase	+1:-1	30%	30%	70%	70%
<b>NY 3.0% FUEL OIL (PLATTS) SWAP FUTURES (NY-H1 - CME) vs RBOB GASOLINE FUTURES (NY-RB - CME)</b>						
Spread Credit Rate	Increase	+1:-1	30%	30%	70%	70%
<b>NY 3.0% FUEL OIL (PLATTS) SWAP FUTURES (NY-H1 - CME) vs RBOB GASOLINE FUTURES (NY-RL - CME)</b>						
Spread Credit Rate	Increase	+1:-1	30%	30%	70%	70%

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Inter-commodity Spread Rates</b>						
<b>NY 3.0% FUEL OIL (PLATTS) SWAP FUTURES (NY-H1 - CME) vs RBOB GASOLINE FUTURES (NY-RT - CME)</b>						
Spread Credit Rate	Increase	+1:-1	30%	30%	70%	70%
<b>NY 3.0% FUEL OIL (PLATTS) SWAP FUTURES (NY-H1 - CME) vs SINGAPORE FUEL OIL 180 CST (PLATTS) CALENDAR SWAP FUTURES (NY-UA - CME)</b>						
Spread Credit Rate	Increase	+15:-2	30%	30%	80%	80%
<b>NY 3.0% FUEL OIL (PLATTS) SWAP FUTURES (NY-H1 - CME) vs SINGAPORE FUEL OIL 380 CST (PLATTS) SWAP FUTURES (NY-SE - CME)</b>						
Spread Credit Rate	Increase	+15:-2	30%	30%	80%	80%
<b>NY HARBOR RESIDUAL FUEL 1.0% SWAP (NYM-MM - CME) vs HEATING OIL FINANCIAL FUTURES (NYM-HO, BH, MP)</b>						
Spread Credit Rate	Decrease	+1:-1	75%	75%	65%	65%
<b>NY RBOB (PLATTS) CALENDAR SWAP FUTURES (NY-RY - CME) vs HEATING OIL CALENDAR SWAP FUTURES (NY-MP - CME)</b>						
Spread Credit Rate	Increase	+1:-1	60%	60%	75%	75%
<b>NY RBOB (PLATTS) CALENDAR SWAP FUTURES (NY-RY - CME) vs NEW YORK HARBOR NO. 2 HEATING OIL FUTURES (NY-HO, MP, BH)</b>						
Spread Credit Rate	Increase	+1:-1	60%	60%	75%	75%
<b>NY RBOB (PLATTS) CALENDAR SWAP FUTURES (NY-RY - CME) vs RBOB GASOLINE CALENDAR SWAP FUTURES (NY-RL - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	80%	80%	70%	70%
<b>NY RBOB (PLATTS) CALENDAR SWAP FUTURES (NY-RY - CME) vs RBOB GASOLINE FUTURES (NY-RB, RL, RT)</b>						
Spread Credit Rate	Decrease	+1:-1	80%	80%	70%	70%
<b>NY-3G - PREMIUM UNLD 10P FOB MED SWP vs NY-LY - GULF COAST ULSD CALENDAR SWAP</b>						
Spread Credit Rate	Decrease	+2:-15	70%	70%	55%	55%
<b>OMAN CRUDE OIL (NY-OQ - CME) vs SINGAPORE MOGAS 92 UNLEADED (PLATTS) SWAP FUTURES (NY-1N - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	75%	75%	65%	65%
<b>OMAN CRUDE OIL (NY-OQ - CME) vs SINGAPORE NAPHTHA (PLATTS) SWAP FUTURES (NY-SP - CME)</b>						
Spread Credit Rate	Increase	+1:-1	45%	45%	70%	70%
<b>PANAMAX TIMECHARTER AVERAGE (BALTIC) SWAP FUTURES (NY-PFU - CME) vs GULF COAST JET FUEL (PLATTS) CALENDAR SWAP FUTURES (NY-GE - CME)</b>						
Spread Credit Rate	New	+2:-15			30%	30%
<b>PREMIUM UNLEADED GASOLINE 10 PPM (PLATTS) CIF MED SWAP FUTURES (NY-2G - CME) vs GASOLINE EURO-BOB OXY (ARGUS) NWE BARGES SWAP FUTURES (NY-7H - CME)</b>						
Spread Credit Rate	New	+1:-1			55%	55%
<b>PREMIUM UNLEADED GASOLINE 10 PPM (PLATTS) CIF MED SWAP FUTURES (NY-2G - CME) vs PREMIUM UNLEADED GASOLINE 10 PPM (PLATTS) FOB MED SWAP FUTURES (NY-3G - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	70%	70%	55%	55%

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Inter-commodity Spread Rates</b>						
<b>PREMIUM UNLEADED GASOLINE 10 PPM (PLATTS) FOB MED SWAP FUTURES (NY-3G - CME) vs GASOLINE EURO-BOB OXY (ARGUS) NWE BARGES SWAP FUTURES (NY-7H - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	80%	80%	70%	70%
<b>PREMIUM UNLEADED GASOLINE 10 PPM (PLATTS) FOB MED SWAP FUTURES (NY-3G - CME) vs JAPAN C&amp;F NAPHTHA (PLATTS) SWAP FUTURES (NY-JA - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	65%	65%	55%	55%
<b>PREMIUM UNLEADED GASOLINE 10 PPM (PLATTS) FOB MED SWAP FUTURES (NY-3G - CME) vs MONT BELVIEU ISO-BUTANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-8I - CME)</b>						
Spread Credit Rate	New	+2:-15			45%	45%
<b>PREMIUM UNLEADED GASOLINE 10 PPM (PLATTS) FOB MED SWAP FUTURES (NY-3G - CME) vs MONT BELVIEU NORMAL BUTANE LDH (OPIS) SWAP FUTURES (NY-MNB - CME)</b>						
Spread Credit Rate	New	+2:-15			40%	40%
<b>PREMIUM UNLEADED GASOLINE 10 PPM (PLATTS) FOB MED SWAP FUTURES (NY-3G - CME) vs SINGAPORE FUEL OIL 380 CST (PLATTS) SWAP FUTURES (NY-SE - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	60%	60%	50%	50%
<b>PREMIUM UNLEADED GASOLINE 10 PPM (PLATTS) FOB MED SWAP FUTURES (NY-3G - CME) vs SINGAPORE MOGAS 92 UNLEADED (PLATTS) SWAP FUTURES (NY-1N - CME)</b>						
Spread Credit Rate	Decrease	+2:-15	80%	80%	60%	60%
<b>PROPANE NON-LDH MONT BELVIEU (OPIS) SWAP FUTURES (NY-1R - CME) vs EUROPEAN 1% FUEL OIL (PLATTS) CARGOES FOB NWE CALENDAR SWAP FUTURES (NY-UF - CME)</b>						
Spread Credit Rate	Increase	+1:-1	30%	30%	35%	35%
<b>PROPANE NON-LDH MONT BELVIEU (OPIS) SWAP FUTURES (NY-1R - CME) vs NEW YORK HARBOR RESIDUAL FUEL 1.0% (PLATTS) SWAP FUTURES (NY-MM - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	40%	40%	35%	35%
<b>RBOB (PLATTS) CALENDAR SWAP (NYM-RY - CME) vs NY HARBOR RBOB GASOLINE (NYM-RB, RL, RT)</b>						
Spread Credit Rate	Decrease	+1:-1	80%	80%	70%	70%
<b>RBOB GASOLINE CALENDAR SWAP FUTURES (NY-RL - CME) vs EUROPEAN NAPHTHA (PLATTS) CALENDAR SWAP FUTURES (NY-UN - CME)</b>						
Spread Credit Rate	Increase	+9:-1	60%	60%	75%	75%
<b>RBOB GASOLINE CALENDAR SWAP FUTURES (NY-RL - CME) vs MONT BELVIEU NORMAL BUTANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-MNB - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	60%	60%	55%	55%
<b>RBOB GASOLINE CALENDAR SWAP FUTURES (NY-RL - CME) vs MONT BELVIEU NORMAL BUTANE LDH (OPIS) SWAP FUTURES (NY-MNB - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	60%	60%	55%	55%
<b>RBOB GASOLINE FINANCIAL FUTURES (NY-RT - CME) vs EUROPEAN NAPHTHA (PLATTS) CALENDAR SWAP FUTURES (NY-UN - CME)</b>						
Spread Credit Rate	Increase	+9:-1	60%	60%	75%	75%

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Inter-commodity Spread Rates</b>						
<b>RBOB GASOLINE FUTURES (NY-27 - CME) vs SINGAPORE FUEL OIL 180 CST (PLATTS) CALENDAR SWAP FUTURES (NY-UA - CME)</b>						
Spread Credit Rate	Increase	+15:-2	50%	50%	70%	70%
<b>RBOB GASOLINE FUTURES (NY-27 - CME) vs SINGAPORE FUEL OIL 380 CST (PLATTS) SWAP FUTURES (NY-SE - CME)</b>						
Spread Credit Rate	Increase	+15:-2	60%	60%	65%	65%
<b>RBOB GASOLINE FUTURES (NY-RB - CME) vs CHICAGO ETHANOL (PLATTS) SWAP FUTURES (NY-CU - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	30%	30%	0%	0%
<b>RBOB GASOLINE FUTURES (NY-RB - CME) vs ETHANOL (EH - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	30%	30%	0%	0%
<b>RBOB GASOLINE FUTURES (NY-RB - CME) vs SINGAPORE FUEL OIL 180 CST (PLATTS) CALENDAR SWAP FUTURES (NY-UA - CME)</b>						
Spread Credit Rate	Increase	+15:-2	50%	50%	70%	70%
<b>RBOB GASOLINE FUTURES (NY-RB - CME) vs SINGAPORE FUEL OIL 380 CST (PLATTS) SWAP FUTURES (NY-SE - CME)</b>						
Spread Credit Rate	Increase	+15:-2	50%	50%	65%	65%
<b>RBOB GASOLINE FUTURES (NY-RB, RL, RT) vs EUROPEAN NAPHTHA (PLATTS) CALENDAR SWAP FUTURES (NY-UN - CME)</b>						
Spread Credit Rate	Increase	+9:-1	60%	60%	75%	75%
<b>RBOB GASOLINE FUTURES (NY-RB, RL, RT) vs NY ETHANOL (PLATTS) SWAP FUTURES (NY-EZ - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	30%	30%	0%	0%
<b>RBOB GASOLINE FUTURES (NY-RL - CME) vs SINGAPORE FUEL OIL 180 CST (PLATTS) CALENDAR SWAP FUTURES (NY-UA - CME)</b>						
Spread Credit Rate	Increase	+15:-2	50%	50%	70%	70%
<b>RBOB GASOLINE FUTURES (NY-RL - CME) vs SINGAPORE FUEL OIL 380 CST (PLATTS) SWAP FUTURES (NY-SE - CME)</b>						
Spread Credit Rate	Increase	+15:-2	60%	60%	65%	65%
<b>RBOB GASOLINE FUTURES (NY-RT - CME) vs SINGAPORE FUEL OIL 180 CST (PLATTS) CALENDAR SWAP FUTURES (NY-UA - CME)</b>						
Spread Credit Rate	Increase	+15:-2	50%	50%	70%	70%
<b>RBOB GASOLINE FUTURES (NY-RT - CME) vs SINGAPORE FUEL OIL 380 CST (PLATTS) SWAP FUTURES (NY-SE - CME)</b>						
Spread Credit Rate	Increase	+15:-2	60%	60%	65%	65%
<b>RBOB GASOLINE LAST DAY FINANCIAL FUTURES (NY-27 - CME) vs EUROPEAN NAPHTHA (PLATTS) CALENDAR SWAP FUTURES (NY-UN - CME)</b>						
Spread Credit Rate	Increase	+9:-1	60%	60%	75%	75%
<b>SINGAPORE FUEL OIL 180 CST (PLATTS) CALENDAR SWAP FUTURES (NY-UA - CME) vs EUROPEAN NAPHTHA (PLATTS) CALENDAR SWAP FUTURES (NY-UN - CME)</b>						
Spread Credit Rate	Increase	+1:-1	50%	50%	65%	65%

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Inter-commodity Spread Rates</b>						
<b>SINGAPORE FUEL OIL 180 CST (PLATTS) CALENDAR SWAP FUTURES (NY-UA - CME) vs HEATING OIL CALENDAR SWAP FUTURES (NY-MP - CME)</b>						
Spread Credit Rate	New	+2:-15			40%	40%
<b>SINGAPORE FUEL OIL 180 CST (PLATTS) CALENDAR SWAP FUTURES (NY-UA - CME) vs HEATING OIL FINANCIAL FUTURES (NY-BH - CME)</b>						
Spread Credit Rate	New	+2:-15			40%	40%
<b>SINGAPORE FUEL OIL 180 CST (PLATTS) CALENDAR SWAP FUTURES (NY-UA - CME) vs HEATING OIL LAST DAY FINANCIAL FUTURES (NY-23 - CME)</b>						
Spread Credit Rate	New	+2:-15			40%	40%
<b>SINGAPORE FUEL OIL 180 CST (PLATTS) CALENDAR SWAP FUTURES (NY-UA - CME) vs NEW YORK HARBOR NO. 2 HEATING OIL FUTURES (NY-HO - CME)</b>						
Spread Credit Rate	New	+2:-15			40%	40%
<b>SINGAPORE FUEL OIL 380 CST (PLATTS) SWAP FUTURES (NY-SE - CME) vs EUROPEAN NAPHTHA (PLATTS) CALENDAR SWAP FUTURES (NY-UN - CME)</b>						
Spread Credit Rate	Increase	+1:-1	50%	50%	65%	65%
<b>SINGAPORE FUEL OIL 380 CST (PLATTS) SWAP FUTURES (NY-SE - CME) vs HEATING OIL CALENDAR SWAP FUTURES (NY-MP - CME)</b>						
Spread Credit Rate	New	+2:-15			40%	40%
<b>SINGAPORE FUEL OIL 380 CST (PLATTS) SWAP FUTURES (NY-SE - CME) vs HEATING OIL FINANCIAL FUTURES (NY-BH - CME)</b>						
Spread Credit Rate	New	+2:-15			40%	40%
<b>SINGAPORE FUEL OIL 380 CST (PLATTS) SWAP FUTURES (NY-SE - CME) vs HEATING OIL LAST DAY FINANCIAL FUTURES (NY-23 - CME)</b>						
Spread Credit Rate	New	+2:-15			40%	40%
<b>SINGAPORE FUEL OIL 380 CST (PLATTS) SWAP FUTURES (NY-SE - CME) vs NEW YORK HARBOR NO. 2 HEATING OIL FUTURES (NY-HO - CME)</b>						
Spread Credit Rate	New	+2:-15			40%	40%
<b>SINGAPORE FUEL OIL 380 CST (PLATTS) SWAP FUTURES (NY-SE - CME) vs SINGAPORE MOGAS 95 UNLEADED (PLATTS) SWAP FUTURES (NY-V0 - CME)</b>						
Spread Credit Rate	New	+2:-15			30%	30%
<b>SINGAPORE FUEL OIL 380 CST (PLATTS) SWAP FUTURES (NY-SE - CME) vs SINGAPORE NAPHTHA (PLATTS) SWAP FUTURES (NY-SP - CME)</b>						
Spread Credit Rate	Increase	+2:+15	30%	30%	70%	70%
<b>SINGAPORE GASOIL (PLATTS) SWAP FUTURES (NY-SG - CME) vs SINGAPORE MOGAS 95 UNLEADED (PLATTS) SWAP FUTURES (NY-V0 - CME)</b>						
Spread Credit Rate	New	+1:-1			50%	50%
<b>SINGAPORE JET KEROSENE (PLATTS) DUBAI CRACK SPREAD SWAP FUTURES (NY-KSD - CME) vs SINGAPORE JET KEROSENE (PLATTS) SWAP FUTURES (NY-KS - CME)</b>						
Spread Credit Rate	New	+1:-1			50%	50%

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Inter-commodity Spread Rates</b>						
<b>SINGAPORE JET KEROSENE (PLATTS) SWAP FUTURES (NY-KS - CME) vs GULF COAST JET FUEL (PLATTS) CALENDAR SWAP FUTURES (NY-GE - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	65%	65%	60%	60%
<b>SINGAPORE JET KEROSENE (PLATTS) SWAP FUTURES (NY-KS - CME) vs SINGAPORE MOGAS 95 UNLEADED (PLATTS) SWAP FUTURES (NY-V0 - CME)</b>						
Spread Credit Rate	New	+1:-1			60%	60%
<b>SINGAPORE MOGAS 92 UNLEADED (PLATTS) SWAP FUTURES (NY-1N - CME) vs BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	75%	75%	65%	65%
<b>SINGAPORE MOGAS 92 UNLEADED (PLATTS) SWAP FUTURES (NY-1N - CME) vs BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	75%	75%	65%	65%
<b>SINGAPORE MOGAS 92 UNLEADED (PLATTS) SWAP FUTURES (NY-1N - CME) vs BRENT CRUDE OIL PENULTIMATE FINANCIAL FUTURES (NY-BB - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	75%	75%	65%	65%
<b>SINGAPORE MOGAS 92 UNLEADED (PLATTS) SWAP FUTURES (NY-1N - CME) vs DME OMAN CRUDE OIL SWAP FUTURES (NY-DOO - CME)</b>						
Spread Credit Rate	Increase	+1:-1	60%	60%	65%	65%
<b>SINGAPORE MOGAS 92 UNLEADED (PLATTS) SWAP FUTURES (NY-1N - CME) vs DUBAI CRUDE OIL (PLATTS) CALENDAR SWAP FUTURES (NY-DC - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	70%	70%	60%	60%
<b>SINGAPORE MOGAS 92 UNLEADED (PLATTS) SWAP FUTURES (NY-1N - CME) vs SINGAPORE MOGAS 92 UNLEADED (PLATTS) BRENT CRACK SPREAD SWAP FUTURES (NY-1NB - CME)</b>						
Spread Credit Rate	New	+1:-1			50%	50%
<b>SINGAPORE MOGAS 95 UNLEADED (PLATTS) SWAP FUTURES (NY-V0 - CME) vs BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME)</b>						
Spread Credit Rate	New	+1:-1			65%	65%
<b>SINGAPORE MOGAS 95 UNLEADED (PLATTS) SWAP FUTURES (NY-V0 - CME) vs BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME)</b>						
Spread Credit Rate	New	+1:-1			65%	65%
<b>SINGAPORE MOGAS 95 UNLEADED (PLATTS) SWAP FUTURES (NY-V0 - CME) vs BRENT CRUDE OIL PENULTIMATE FINANCIAL FUTURES (NY-BB - CME)</b>						
Spread Credit Rate	New	+1:-1			65%	65%
<b>SINGAPORE MOGAS 95 UNLEADED (PLATTS) SWAP FUTURES (NY-V0 - CME) vs CRUDE OIL FINANCIAL FUTURES (NY-WS - CME)</b>						
Spread Credit Rate	New	+1:-1			65%	65%
<b>SINGAPORE MOGAS 95 UNLEADED (PLATTS) SWAP FUTURES (NY-V0 - CME) vs CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-26 - CME)</b>						
Spread Credit Rate	New	+1:-1			65%	65%



## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Inter-commodity Spread Rates</b>						
<b>SINGAPORE MOGAS 95 UNLEADED (PLATTS) SWAP FUTURES (NY-V0 - CME) vs EUROPEAN 3.5% FUEL OIL (PLATTS) BARGES FOB RDAM CALENDAR SWAP FUTURES (NY-UV - CME)</b>						
Spread Credit Rate	New	+15:-2			30%	30%
<b>SINGAPORE MOGAS 95 UNLEADED (PLATTS) SWAP FUTURES (NY-V0 - CME) vs EUROPEAN GASOIL (ICE) SWAP FUTURES (NY-GX - CME)</b>						
Spread Credit Rate	New	+15:-2			50%	50%
<b>SINGAPORE MOGAS 95 UNLEADED (PLATTS) SWAP FUTURES (NY-V0 - CME) vs GULF COAST JET FUEL (PLATTS) CALENDAR SWAP FUTURES (NY-GE - CME)</b>						
Spread Credit Rate	New	+1:-1			60%	60%
<b>SINGAPORE MOGAS 95 UNLEADED (PLATTS) SWAP FUTURES (NY-V0 - CME) vs GULF COAST NO. 6 FUEL OIL 3.0% (PLATTS) SWAP FUTURES (NY-MF - CME)</b>						
Spread Credit Rate	New	+1:-1			60%	60%
<b>SINGAPORE MOGAS 95 UNLEADED (PLATTS) SWAP FUTURES (NY-V0 - CME) vs GULF COAST ULSD (PLATTS) SWAP FUTURES (NY-LY - CME)</b>						
Spread Credit Rate	New	+1:-1			55%	55%
<b>SINGAPORE MOGAS 95 UNLEADED (PLATTS) SWAP FUTURES (NY-V0 - CME) vs HEATING OIL CALENDAR SWAP FUTURES (NY-MP - CME)</b>						
Spread Credit Rate	New	+1:-1			65%	65%
<b>SINGAPORE MOGAS 95 UNLEADED (PLATTS) SWAP FUTURES (NY-V0 - CME) vs HEATING OIL FINANCIAL FUTURES (NY-BH - CME)</b>						
Spread Credit Rate	New	+1:-1			65%	65%
<b>SINGAPORE MOGAS 95 UNLEADED (PLATTS) SWAP FUTURES (NY-V0 - CME) vs HEATING OIL LAST DAY FINANCIAL FUTURES (NY-23 - CME)</b>						
Spread Credit Rate	New	+1:-1			65%	65%
<b>SINGAPORE MOGAS 95 UNLEADED (PLATTS) SWAP FUTURES (NY-V0 - CME) vs LIGHT SWEET CRUDE OIL FUTURES (NY-CL - CME)</b>						
Spread Credit Rate	New	+1:-1			65%	65%
<b>SINGAPORE MOGAS 95 UNLEADED (PLATTS) SWAP FUTURES (NY-V0 - CME) vs LLS (ARGUS) CALENDAR SWAP FUTURES (NY-XA - CME)</b>						
Spread Credit Rate	New	+1:-1			50%	50%
<b>SINGAPORE MOGAS 95 UNLEADED (PLATTS) SWAP FUTURES (NY-V0 - CME) vs NEW YORK HARBOR NO. 2 HEATING OIL FUTURES (NY-HO - CME)</b>						
Spread Credit Rate	New	+1:-1			65%	65%
<b>SINGAPORE MOGAS 95 UNLEADED (PLATTS) SWAP FUTURES (NY-V0 - CME) vs RBOB GASOLINE CALENDAR SWAP FUTURES (NY-RL - CME)</b>						
Spread Credit Rate	New	+1:-1			65%	65%
<b>SINGAPORE MOGAS 95 UNLEADED (PLATTS) SWAP FUTURES (NY-V0 - CME) vs RBOB GASOLINE FINANCIAL FUTURES (NY-RT - CME)</b>						
Spread Credit Rate	New	+1:-1			65%	65%

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Inter-commodity Spread Rates</b>						
<b>SINGAPORE MOGAS 95 UNLEADED (PLATTS) SWAP FUTURES (NY-V0 - CME) vs RBOB GASOLINE FUTURES (NY-RB - CME)</b>						
Spread Credit Rate	New	+1:-1			65%	65%
<b>SINGAPORE MOGAS 95 UNLEADED (PLATTS) SWAP FUTURES (NY-V0 - CME) vs RBOB GASOLINE LAST DAY FINANCIAL FUTURES (NY-27 - CME)</b>						
Spread Credit Rate	New	+1:-1			65%	65%
<b>SINGAPORE MOGAS 95 UNLEADED (PLATTS) SWAP FUTURES (NY-V0 - CME) vs WTI CALENDAR SWAP FUTURES (NY-CS - CME)</b>						
Spread Credit Rate	New	+1:-1			65%	65%
<b>SINGAPORE NAPHTHA (PLATTS) SWAP FUT (NY-SP) vs. EIA FLAT TAX ON-HIGHWAY DIESEL SWAP FUT (NY-A5)</b>						
Spread Credit Rate	Increase	+1:-1	40%	40%	65%	65%
<b>SINGAPORE NAPHTHA (PLATTS) SWAP FUTURES (NY-SP - CME) vs CONWAY NATURAL GASOLINE (OPIS) SWAP FUTURES (NY-8L - CME)</b>						
Spread Credit Rate	New	+1:-1			40%	40%
<b>SINGAPORE NAPHTHA (PLATTS) SWAP FUTURES (NY-SP - CME) vs DME OMAN CRUDE OIL SWAP FUTURES (NY-DOO - CME)</b>						
Spread Credit Rate	Increase	+1:-1	55%	55%	70%	70%
<b>SINGAPORE NAPHTHA (PLATTS) SWAP FUTURES (NY-SP - CME) vs EUROPEAN 1% FUEL OIL (PLATTS) BARGES FOB RDAM CALENDAR SWAP FUTURES (NY-UH - CME)</b>						
Spread Credit Rate	Increase	+15:-2	30%	30%	65%	65%
<b>SINGAPORE NAPHTHA (PLATTS) SWAP FUTURES (NY-SP - CME) vs EUROPEAN 1% FUEL OIL (PLATTS) CARGOES FOB NWE CALENDAR SWAP FUTURES (NY-UF - CME)</b>						
Spread Credit Rate	Increase	+15:-2	30%	30%	65%	65%
<b>SINGAPORE NAPHTHA (PLATTS) SWAP FUTURES (NY-SP - CME) vs GULF COAST JET FUEL (PLATTS) CALENDAR SWAP FUTURES (NY-GE - CME)</b>						
Spread Credit Rate	Increase	+1:-1	30%	30%	70%	70%
<b>SINGAPORE NAPHTHA (PLATTS) SWAP FUTURES (NY-SP - CME) vs GULF COAST ULSD (PLATTS) SWAP FUTURES (NY-LY - CME)</b>						
Spread Credit Rate	Increase	+1:-1	40%	40%	65%	65%
<b>SINGAPORE NAPHTHA (PLATTS) SWAP FUTURES (NY-SP - CME) vs HEATING OIL CALENDAR SWAP FUTURES (NY-MP - CME)</b>						
Spread Credit Rate	New	+1:-1			65%	65%
<b>SINGAPORE NAPHTHA (PLATTS) SWAP FUTURES (NY-SP - CME) vs HEATING OIL FINANCIAL FUTURES (NY-BH - CME)</b>						
Spread Credit Rate	New	+1:-1			65%	65%
<b>SINGAPORE NAPHTHA (PLATTS) SWAP FUTURES (NY-SP - CME) vs MONT BELVIEU ISO-BUTANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-8I - CME)</b>						
Spread Credit Rate	New	+1:-1			50%	50%

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Inter-commodity Spread Rates</b>						
<b>SINGAPORE NAPHTHA (PLATTS) SWAP FUTURES (NY-SP - CME) vs MONT BELVIEU NORMAL BUTANE LDH (OPIS) SWAP FUTURES (NY-MNB - CME)</b>						
Spread Credit Rate	New	+1:-1			55%	55%
<b>SINGAPORE NAPHTHA (PLATTS) SWAP FUTURES (NY-SP - CME) vs NEW YORK HARBOR NO. 2 HEATING OIL FUTURES (NY-HO - CME)</b>						
Spread Credit Rate	New	+1:-1			65%	65%
<b>SINGAPORE NAPHTHA (PLATTS) SWAP FUTURES (NY-SP - CME) vs NY 3.0% FUEL OIL (PLATTS) SWAP FUTURES (NY-H1 - CME)</b>						
Spread Credit Rate	Increase	+1:-1	50%	50%	65%	65%
<b>SINGAPORE NAPHTHA (PLATTS) SWAP FUTURES (NY-SP - CME) vs RBOB GASOLINE FUTURES (NY-27 - CME)</b>						
Spread Credit Rate	Increase	+1:-1	50%	50%	75%	75%
<b>SINGAPORE NAPHTHA (PLATTS) SWAP FUTURES (NY-SP - CME) vs RBOB GASOLINE FUTURES (NY-RB - CME)</b>						
Spread Credit Rate	Increase	+1:-1	50%	50%	75%	75%
<b>SINGAPORE NAPHTHA (PLATTS) SWAP FUTURES (NY-SP - CME) vs RBOB GASOLINE FUTURES (NY-RL - CME)</b>						
Spread Credit Rate	Increase	+1:-1	50%	50%	75%	75%
<b>SINGAPORE NAPHTHA (PLATTS) SWAP FUTURES (NY-SP - CME) vs RBOB GASOLINE FUTURES (NY-RT - CME)</b>						
Spread Credit Rate	Increase	+1:-1	50%	50%	75%	75%
<b>SINGAPORE NAPHTHA (PLATTS) SWAP FUTURES (NY-SP - CME) vs SINGAPORE FUEL OIL 180 CST (PLATTS) CALENDAR SWAP FUTURES (NY-UA - CME)</b>						
Spread Credit Rate	Increase	+15:-2	30%	30%	70%	70%
<b>SINGAPORE NAPHTHA (PLATTS) SWAP FUTURES (NY-SP - CME) vs SINGAPORE JET KEROSENE (PLATTS) SWAP FUTURES (NY-KS - CME)</b>						
Spread Credit Rate	Increase	+1:-1	45%	45%	60%	60%
<b>SINGAPORE NAPHTHA SWAP (NY-SP - CME) vs EURO PROPANE CIF ARA SWAP (NY-PS - CME)</b>						
Spread Credit Rate	Decrease	+10:-1	50%	50%	40%	40%
<b>UB vs. EFM (UB - Dated Brent (Platts) Financial Futures, EFM - European 1% Fuel Oil Cargoes FOB MED (Platts) Futures)</b>						
Spread Credit Rate	Increase	+19:-3	40%	40%	60%	60%
<b>WTI CALENDAR SWAP FUTURES (NY-CS - CME) vs EUROPEAN 1% FUEL OIL (PLATTS) CARGOES FOB NWE CALENDAR SWAP FUTURES (NY-UF - CME)</b>						
Spread Credit Rate	Decrease	+33:-5	70%	70%	60%	60%
<b>WTI CALENDAR SWAP FUTURES (NY-CS - CME) vs EUROPEAN 1% FUEL OIL (PLATTS) CARGOES FOB NWE CALENDAR SWAP FUTURES (NY-UF - CME).</b>						
Spread Credit Rate	Decrease	+33:-5	70%	70%	60%	60%
<b>WTI CALENDAR SWAP FUTURES (NY-CS - CME) vs NY 3.0% FUEL OIL (PLATTS) SWAP FUTURES (NY-H1 - CME)</b>						
Spread Credit Rate	Increase	+1:-1	50%	50%	65%	65%
<b>WTI CALENDAR SWAP FUTURES (NY-CS - CME) vs NY HEATING OIL (PLATTS) SWAP FUTURES (NY-YF - CME)</b>						
Spread Credit Rate	Increase	+1:-1	40%	40%	70%	70%

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Inter-commodity Spread Rates</b>						
<b>WTI CALENDAR SWAP FUTURES (NY-CS - CME) vs NY HEATING OIL (PLATTS) SWAP FUTURES (NY-YF - CME).</b>						
Spread Credit Rate	Increase	+1:-1	40%	40%	70%	70%
<b>WTI CALENDAR SWAP FUTURES (NY-CS - CME) vs NY ULSD (PLATTS) SWAP FUTURES (NY-YS - CME)</b>						
Spread Credit Rate	Increase	+1:-1	50%	50%	70%	70%
<b>WTI CALENDAR SWAP FUTURES (NY-CS - CME) vs NY ULSD (PLATTS) SWAP FUTURES (NY-YS - CME).</b>						
Spread Credit Rate	Increase	+1:-1	50%	50%	70%	70%