



22-112

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

FROM: CME Clearing

SUBJECT: Performance Bond Requirements

DATE: Thursday, March 24, 2022

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. Please email any questions to Clearing.RiskManagement@cmegroup.com.

The rates will be effective after the close of business on

Friday, March 25, 2022.

Current rates as of:

Thursday, March 24, 2022.

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
Outright Rates								
AGRICULTURE - Outright Rates								
BLOOMBERG COMDITY INDEX SWAP MARKER (DGI)								
DGI	Non-HRP		Increase	USD	750	750	960	960
DGI	HRP		Increase	USD	825	750	1,056	960
BLOOMBERG COMMODITY INDEX SWAPS (DGS)								
DGS	Non-HRP		Increase	USD	750	750	960	960
DGS	HRP		Increase	USD	825	750	1,056	960
BTIC ON BLOOMBERG COMMODITY INDEX S (DGT)								
DGT	Non-HRP		Increase	USD	750	750	960	960
DGT	HRP		Increase	USD	825	750	1,056	960
BTIC ON S&P-GSCI EXCESS RETURN INDE (GIT)								
GIT	Non-HRP		Increase	USD	2,700	2,700	3,200	3,200
GIT	HRP		Increase	USD	2,970	2,700	3,520	3,200
BTIC ON S&P-GSCI EXCESS RETURN INDE (SET)								
SET	Non-HRP		Increase	USD	2,500	2,500	3,200	3,200
SET	HRP		Increase	USD	2,750	2,500	3,520	3,200
CASH CHEESE FUTURES (CSC)								
CSC	Non-HRP	Mnths 12+	Increase	USD	750	750	850	850
CSC	HRP	Mnths 12+	Increase	USD	825	750	935	850
CLASS III MILK FUTURES (DA)								
DA	Non-HRP	Months 12-15	Increase	USD	750	750	900	900
DA	HRP	Months 12-15	Increase	USD	825	750	990	900
DA	Non-HRP	Months 16+	Increase	USD	825	825	875	875
DA	HRP	Months 16+	Increase	USD	908	825	963	875
GSCI ER FUTURES (GA)								
GA	Non-HRP		Increase	USD	2,700	2,700	3,200	3,200
GA	HRP		Increase	USD	2,970	2,700	3,520	3,200
MLK MID FUTURES (JQ)								
JQ	Non-HRP	Months 12-15	Increase	USD	375	375	450	450
JQ	HRP	Months 12-15	Increase	USD	413	375	495	450
JQ	Non-HRP	Months 16+	Increase	USD	413	413	438	438
JQ	HRP	Months 16+	Increase	USD	454	413	481	438
S&P GSCI ENHANCED ER SWAP FUT (RRE)								
RRE	Non-HRP		Increase	USD	3,300	3,300	3,900	3,900
RRE	HRP		Increase	USD	3,630	3,300	4,290	3,900

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
Outright Rates								
S&P-GSCI EXCESS RETURN INDEX FUTURE (GII)								
GII	Non-HRP		Increase	USD	2,700	2,700	3,200	3,200
GII	HRP		Increase	USD	2,970	2,700	3,520	3,200
S&P-GSCI EXCESS RETURN INDEX SWAPS (SEI)								
SEI	Non-HRP		Increase	USD	2,500	2,500	3,200	3,200
SEI	HRP		Increase	USD	2,750	2,500	3,520	3,200
SP GSCI SWAP FUTURES (SES)								
SES	Non-HRP		Increase	USD	2,500	2,500	3,200	3,200
SES	HRP		Increase	USD	2,750	2,500	3,520	3,200
METALS - Outright Rates								
ALUMINA FOB AUSTRALIA PLATT FUTURES (ALA)								
ALA	Non-HRP	Mths 1-4	Increase	USD	5,750	5,750	6,800	6,800
ALA	HRP	Mths 1-4	Increase	USD	6,325	5,750	7,480	6,800
PETROLEUM CRACKS AND SPREADS - Outright Rates								
EUR DIESEL10PPM BRGS FOB ARA(PLATTS (ET)								
ET	Non-HRP	Mnths 4+	Increase	USD	8,200	8,200	10,000	10,000
ET	HRP	Mnths 4+	Increase	USD	9,020	8,200	11,000	10,000
MINIEURDIESEL10 PPM BRGS ARA(P)VS.L (MUD)								
MUD	Non-HRP	Mnths 4+	Increase	USD	820	820	1,000	1,000
MUD	HRP	Mnths 4+	Increase	USD	902	820	1,100	1,000

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

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

REFINED PRODUCTS - Outright Rates

EUR 0.5% VS. EUR 3.5% (R53)

R53	Non-HRP	Month 1	Increase	USD	28,000	28,000	31,500	31,500
R53	HRP	Month 1	Increase	USD	30,800	28,000	34,650	31,500
R53	Non-HRP	Month 2	Increase	USD	27,500	27,500	31,000	31,000
R53	HRP	Month 2	Increase	USD	30,250	27,500	34,100	31,000
R53	Non-HRP	Month 3+	Increase	USD	27,000	27,000	30,500	30,500
R53	HRP	Month 3+	Increase	USD	29,700	27,000	33,550	30,500

MINI SINGAPORE GASOIL PLATS FUTURES (MSG)

MSG	Non-HRP	Mnth 1	Increase	USD	1,550	1,550	1,700	1,700
MSG	HRP	Mnth 1	Increase	USD	1,705	1,550	1,870	1,700
MSG	Non-HRP	Mnths 2-6	Increase	USD	1,500	1,500	1,650	1,650
MSG	HRP	Mnths 2-6	Increase	USD	1,650	1,500	1,815	1,650

SINGAPORE FOB MARINE 0.5% (PLATTS) (S53)

S53	Non-HRP	Month 1	Increase	USD	34,500	34,500	39,000	39,000
S53	HRP	Month 1	Increase	USD	37,950	34,500	42,900	39,000
S53	Non-HRP	Month 2	Increase	USD	34,250	34,250	38,750	38,750
S53	HRP	Month 2	Increase	USD	37,675	34,250	42,625	38,750
S53	Non-HRP	Month 3+	Increase	USD	34,000	34,000	38,500	38,500
S53	HRP	Month 3+	Increase	USD	37,400	34,000	42,350	38,500

SINGAPORE GASOIL FUT (SG)

SG	Non-HRP	Mnth 1	Increase	USD	15,500	15,500	17,000	17,000
SG	HRP	Mnth 1	Increase	USD	17,050	15,500	18,700	17,000
SG	Non-HRP	Mnths 2-6	Increase	USD	15,000	15,000	16,500	16,500
SG	HRP	Mnths 2-6	Increase	USD	16,500	15,000	18,150	16,500

SYNTHETIC SINGAPORE GASOIL FUT (SSG)

SSG	Non-HRP	Mnth 1	Increase	USD	15,500	15,500	17,000	17,000
SSG	HRP	Mnth 1	Increase	USD	17,050	15,500	18,700	17,000
SSG	Non-HRP	Mnths 2-6	Increase	USD	15,000	15,000	16,500	16,500
SSG	HRP	Mnths 2-6	Increase	USD	16,500	15,000	18,150	16,500

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
Outright Rates								
WEATHER - Outright Rates								
AMSTERDAM HDD MONTHLY FUTURES (D2)								
D2	Non-HRP	Month 2	Decrease	EUR	13%	13%	12%	12%
D2	HRP	Month 2	Decrease	EUR	14%	13%	13%	12%
D2	Non-HRP	Month 3	Decrease	EUR	13%	13%	10%	10%
D2	HRP	Month 3	Decrease	EUR	14%	13%	11%	10%
D2	Non-HRP	Month 4	Decrease	EUR	13%	13%	7%	7%
D2	HRP	Month 4	Decrease	EUR	14%	13%	8%	7%
ATLANTA HDD FUTURE (H1)								
H1	Non-HRP	Month 1	Decrease	USD	22%	22%	19%	19%
H1	HRP	Month 1	Decrease	USD	24%	22%	21%	19%
H1	Non-HRP	Month 2	Decrease	USD	22%	22%	15%	15%
H1	HRP	Month 2	Decrease	USD	24%	22%	17%	15%
H1	Non-HRP	Month 3	Decrease	USD	22%	22%	15%	15%
H1	HRP	Month 3	Decrease	USD	24%	22%	17%	15%
H1	Non-HRP	Month 4	Decrease	USD	22%	22%	15%	15%
H1	HRP	Month 4	Decrease	USD	24%	22%	17%	15%
CHICAGO HDD FUTURE (H2)								
H2	Non-HRP	Month 1	Decrease	USD	12%	12%	10%	10%
H2	HRP	Month 1	Decrease	USD	13%	12%	11%	10%
H2	Non-HRP	Month 2	Decrease	USD	11%	11%	8%	8%
H2	HRP	Month 2	Decrease	USD	12%	11%	9%	8%
H2	Non-HRP	Month 3	Decrease	USD	10%	10%	6%	6%
H2	HRP	Month 3	Decrease	USD	11%	10%	7%	6%
H2	Non-HRP	Month 4	Decrease	USD	10%	10%	5%	5%
H2	HRP	Month 4	Decrease	USD	11%	10%	6%	5%
H5 DALLAS HDD FUTURES (H5)								
H5	Non-HRP	Month2	Decrease	USD	24%	24%	20%	20%
H5	HRP	Month2	Decrease	USD	26%	24%	22%	20%
H5	Non-HRP	Month3	Decrease	USD	24%	24%	15%	15%
H5	HRP	Month3	Decrease	USD	26%	24%	17%	15%
H5	Non-HRP	Month4+	Decrease	USD	24%	24%	15%	15%
H5	HRP	Month4+	Decrease	USD	26%	24%	17%	15%
K0 LAS VEGAS CDD FUTURES (K0)								
K0	Non-HRP	Month 2	Decrease	USD	9%	9%	7%	7%
K0	HRP	Month 2	Decrease	USD	9%	9%	8%	7%
K0	Non-HRP	Month 4	Decrease	USD	5%	5%	4%	4%
K0	HRP	Month 4	Decrease	USD	5%	5%	4%	4%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
Outright Rates								
K2 CHICAGO CDD FUTURES (K2)								
K2	Non-HRP	Month2	Decrease	USD	28%	28%	27%	27%
K2	HRP	Month2	Decrease	USD	31%	28%	30%	27%
K3 CINCINNATI CDD FUTURES (K3)								
K3	Non-HRP	Month 1	Decrease	USD	35%	35%	25%	25%
K3	HRP	Month 1	Decrease	USD	39%	35%	28%	25%
LONDON MONTHLY HDD FUTURES (D0)								
D0	Non-HRP	Month 1	Decrease	GBP	15%	15%	13%	13%
D0	HRP	Month 1	Decrease	GBP	17%	15%	14%	13%
D0	Non-HRP	Month 2	Decrease	GBP	13%	13%	10%	10%
D0	HRP	Month 2	Decrease	GBP	14%	13%	11%	10%
D0	Non-HRP	Month 3	Decrease	GBP	13%	13%	10%	10%
D0	HRP	Month 3	Decrease	GBP	14%	13%	11%	10%
D0	Non-HRP	Month 4	Decrease	GBP	13%	13%	8%	8%
D0	HRP	Month 4	Decrease	GBP	14%	13%	9%	8%
MINNEAPOLIS MONTHLY CDD FUTURES (KQ)								
KQ	Non-HRP	Month 1	Decrease	USD	21%	21%	15%	15%
KQ	HRP	Month 1	Decrease	USD	23%	21%	17%	15%
KQ	Non-HRP	Month 4	Decrease	USD	70%	70%	7%	7%
KQ	HRP	Month 4	Decrease	USD	77%	70%	8%	7%
NEW YORK HDD FUTURE (H4)								
H4	Non-HRP	Month 3	Decrease	USD	13%	13%	6%	6%
H4	HRP	Month 3	Decrease	USD	14%	13%	7%	6%
H4	Non-HRP	Month 4	Decrease	USD	13%	13%	5%	5%
H4	HRP	Month 4	Decrease	USD	14%	13%	6%	5%
SACRAMENTO MONTHLY HDD FUTURES (HS)								
HS	Non-HRP	Month 1	Increase	USD	13%	13%	15%	15%
HS	HRP	Month 1	Increase	USD	14%	13%	17%	15%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
Intra Spreads								
AGRICULTURE - Intra Spreads								
Bloomberg Roll Select Commodity Index Futures - All Months (BLOOMBERG ROLL SELECT COMM MARKER)								
DRI	Non-HRP		Increase	USD	150	150	300	300
DRI	HRP		Increase	USD	165	150	330	300
Bloomberg Roll Select Commodity Index Futures - All Months (BLOOMBERG ROLL SELECT COMMDTY INDEX)								
DRS	Non-HRP		Increase	USD	150	150	300	300
DRS	HRP		Increase	USD	165	150	330	300
Bloomberg Roll Select Commodity Index Futures - All Months (BTIC ON BLOOMBERG ROLL SELECT INDEX)								
DRT	Non-HRP		Increase	USD	150	150	300	300
DRT	HRP		Increase	USD	165	150	330	300
GSCI ER Futures (GA) - All Months (BTIC ON S&P-GSCI EXCESS RETURN INDE)								
GIT	Non-HRP		Increase	USD	300	300	600	600
GIT	HRP		Increase	USD	330	300	660	600
GSCI ER Futures (GA) - All Months (GSCI ER FUTURES)								
GA	Non-HRP		Increase	USD	300	300	600	600
GA	HRP		Increase	USD	330	300	660	600
GSCI ER Futures (GA) - All Months (S&P-GSCI EXCESS RETURN INDEX FUTURE)								
GII	Non-HRP		Increase	USD	300	300	600	600
GII	HRP		Increase	USD	330	300	660	600
Months 6+ vs Months 6+ (CASH CHEESE FUTURES)								
CSC	Non-HRP		Increase	USD	1,000	1,000	1,150	1,150
CSC	HRP		Increase	USD	1,100	1,000	1,265	1,150

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
Intra Spreads								
EQUITY INDEX - Intra Spreads								
S&P 500 Stock Index - Month 3 vs 4 (BTIC ON E-MINI S&P 500 FUTURES)								
EST	Non-HRP		Increase	USD	700	700	1,050	1,050
EST	HRP		Increase	USD	770	700	1,155	1,050
S&P 500 Stock Index - Month 3 vs 4 (E-MINI S&P 500 FUTURES MARKER)								
ESI	Non-HRP		Increase	USD	700	700	1,050	1,050
ESI	HRP		Increase	USD	770	700	1,155	1,050
S&P 500 Stock Index - Month 3 vs 4 (E-MINI S&P 500 FUTURES)								
ES	Non-HRP		Increase	USD	700	700	1,050	1,050
ES	HRP		Increase	USD	770	700	1,155	1,050
S&P 500 Stock Index - Month 3 vs 4 (MICRO E-MINI S&P 500 FUTURES)								
MES	Non-HRP		Increase	USD	70	70	105	105
MES	HRP		Increase	USD	77	70	116	105
S&P 500 Stock Index - Month 3 vs 4 (S&P 500 FUTURES)								
SP	Non-HRP		Increase	USD	3,500	3,500	5,250	5,250
SP	HRP		Increase	USD	3,850	3,500	5,775	5,250
S&P 500 Stock Index - Month 3 vs 4 (TACO ON E-MINI S&P 500 FUTURES)								
ESQ	Non-HRP		Increase	USD	700	700	1,050	1,050
ESQ	HRP		Increase	USD	770	700	1,155	1,050
NGL/PETROCHEMICALS - Intra Spreads								
Mont Belvieu Natural Gasoline (OPIS) Swap - All Months (MT BELVIEU NAT GAS 5 D. OPIS)								
7Q	Non-HRP		Increase	USD	2,200	2,200	2,800	2,800
7Q	HRP		Increase	USD	2,420	2,200	3,080	2,800
Mont Belvieu Natural Gasoline (OPIS) Swap - All Months (SYNTH 119 MT BELVIEU NAT GAS 5 D. O)								
119	Non-HRP		Increase	USD	220	220	280	280
119	HRP		Increase	USD	242	220	308	280
PETROLEUM CRACKS AND SPREADS - Intra Spreads								
European Gasoil 10PPM Rdam Barges v. Gasoil Futures Swap - Months 2+ vs Months 2+ (EUR DIESEL10PPM BRGS FOB ARA(PLATTS))								
ET	Non-HRP		Increase	USD	8,800	8,800	10,250	10,250
ET	HRP		Increase	USD	9,680	8,800	11,275	10,250
European Gasoil 10PPM Rdam Barges v. Gasoil Futures Swap - Months 2+ vs Months 2+ (MINIEURDIESEL10 PPM BRGS ARA(P)VS.L)								
MUD	Non-HRP		Increase	USD	880	880	1,025	1,025
MUD	HRP		Increase	USD	968	880	1,128	1,025

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
Intra Spreads								
REFINED PRODUCTS - Intra Spreads								
Consecutives (SYNT GULF COAST ULSD CALENDAR FU)								
SLY	Non-HRP		Increase	USD	1,650	1,650	2,000	2,000
SLY	HRP		Increase	USD	1,815	1,650	2,200	2,000
European 3.5% Fuel Oil Rotterdam Calendar Swap - Mnths 2-6 vs 2-6 (EUROPE 3.5% FUEL OIL RDM CALFUT)								
UV	Non-HRP		Increase	USD	10,250	10,250	12,500	12,500
UV	HRP		Increase	USD	11,275	10,250	13,750	12,500
European 3.5% Fuel Oil Rotterdam Calendar Swap - Mnths 2-6 vs 2-6 (MICRO EUROPEAN 3.5% FUEL OIL BARGES)								
MEF	Non-HRP		Increase	USD	103	103	125	125
MEF	HRP		Increase	USD	113	103	138	125
European 3.5% Fuel Oil Rotterdam Calendar Swap - Mnths 2-6 vs 2-6 (MINI EURO 3.5% FUEL OIL FOB RDM FUT)								
OD	Non-HRP		Increase	USD	1,025	1,025	1,250	1,250
OD	HRP		Increase	USD	1,128	1,025	1,375	1,250
European 3.5% Fuel Oil Rotterdam Calendar Swap - Mnths 2-6 vs 7-10 (EUROPE 3.5% FUEL OIL RDM CALFUT)								
UV	Non-HRP		Increase	USD	22,500	22,500	24,750	24,750
UV	HRP		Increase	USD	24,750	22,500	27,225	24,750
European 3.5% Fuel Oil Rotterdam Calendar Swap - Mnths 2-6 vs 7-10 (MICRO EUROPEAN 3.5% FUEL OIL BARGES)								
MEF	Non-HRP		Increase	USD	225	225	248	248
MEF	HRP		Increase	USD	248	225	272	248
European 3.5% Fuel Oil Rotterdam Calendar Swap - Mnths 2-6 vs 7-10 (MINI EURO 3.5% FUEL OIL FOB RDM FUT)								
OD	Non-HRP		Increase	USD	2,250	2,250	2,475	2,475
OD	HRP		Increase	USD	2,475	2,250	2,723	2,475
European 3.5% Fuel Oil Rotterdam Calendar Swap - Mnths 7-10 vs 7-10 (EUROPE 3.5% FUEL OIL RDM CALFUT)								
UV	Non-HRP		Increase	USD	7,200	7,200	9,100	9,100
UV	HRP		Increase	USD	7,920	7,200	10,010	9,100
European 3.5% Fuel Oil Rotterdam Calendar Swap - Mnths 7-10 vs 7-10 (MICRO EUROPEAN 3.5% FUEL OIL BARGES)								
MEF	Non-HRP		Increase	USD	72	72	91	91
MEF	HRP		Increase	USD	79	72	100	91
European 3.5% Fuel Oil Rotterdam Calendar Swap - Mnths 7-10 vs 7-10 (MINI EURO 3.5% FUEL OIL FOB RDM FUT)								
OD	Non-HRP		Increase	USD	720	720	910	910
OD	HRP		Increase	USD	792	720	1,001	910
Gulf Coast ULSD Swap- Consecutive Month 2+ (GULF COAST ULSD CALENDAR FUT)								
LY	Non-HRP		Increase	USD	1,650	1,650	2,000	2,000
LY	HRP		Increase	USD	1,815	1,650	2,200	2,000

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
Intra Spreads								
Gulf Coast ULSD Swap- Consecutive Month 2+ (SYNTH 111 GULF COAST ULSD CAL FUTUR)								
111	Non-HRP		Increase	USD	165	165	200	200
111	HRP		Increase	USD	182	165	220	200
Mnths 2-6 vs 2-6 (GULF COAST ULSD CALENDAR FUT)								
LY	Non-HRP		Increase	USD	3,500	3,500	5,100	5,100
LY	HRP		Increase	USD	3,850	3,500	5,610	5,100
Mnths 2-6 vs 2-6 (SYNT GULF COAST ULSD CALENDAR FU)								
SLY	Non-HRP		Increase	USD	3,500	3,500	5,100	5,100
SLY	HRP		Increase	USD	3,850	3,500	5,610	5,100
Mnths 2-6 vs 2-6 (SYNTH 111 GULF COAST ULSD CAL FUTUR)								
111	Non-HRP		Increase	USD	350	350	510	510
111	HRP		Increase	USD	385	350	561	510
Months 2-6 vs 2-6 (MICRO SINGAPORE FUEL OIL 380CST (PL))								
MAF	Non-HRP		Increase	USD	65	65	78	78
MAF	HRP		Increase	USD	72	65	85	78
Months 2-6 vs 2-6 (MINI SINGAPORE 380CST FUEL OIL FUT)								
MTS	Non-HRP		Increase	USD	650	650	775	775
MTS	HRP		Increase	USD	715	650	853	775
Months 2-6 vs 2-6 (SINGAPORE 380CST FUEL OIL FUT)								
SE	Non-HRP		Increase	USD	6,500	6,500	7,750	7,750
SE	HRP		Increase	USD	7,150	6,500	8,525	7,750
Singapore 380cst Fuel Oil Swap - Consecutives (MICRO SINGAPORE FUEL OIL 380CST (PL))								
MAF	Non-HRP		Increase	USD	25	25	33	33
MAF	HRP		Increase	USD	28	25	36	33
Singapore 380cst Fuel Oil Swap - Consecutives (MINI SINGAPORE 380CST FUEL OIL FUT)								
MTS	Non-HRP		Increase	USD	250	250	325	325
MTS	HRP		Increase	USD	275	250	358	325
Singapore 380cst Fuel Oil Swap - Consecutives (SINGAPORE 380CST FUEL OIL FUT)								
SE	Non-HRP		Increase	USD	2,500	2,500	3,250	3,250
SE	HRP		Increase	USD	2,750	2,500	3,575	3,250

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
AGRICULTURE - Inter-commodity Spread Rates						
Bloomberg Commodity Index Futures (70) vs. Underlying Basket no BZ						
Spread Credit Rate	Increase	+620:-13:-6:-	70%	70%	73%	73%
Bloomberg Commodity Index Swaps (DGS) vs. Underlying Basket No BZ						
Spread Credit Rate	Increase	+620:-13:-6:-	70%	70%	73%	73%
CRUDE OIL - Inter-commodity Spread Rates						
(NY-R5F - CME) vs (NY-CL - CME)						
Spread Credit Rate	Decrease	+1:-1	80%	80%	76%	76%
1N 1 vs JCY 1						
Spread Credit Rate	Decrease	+1:-1	70%	70%	60%	60%
Spread Credit Rate	Decrease	+3:-19	85%	85%	81%	81%
1N 1 vs JCY 2-4						
Spread Credit Rate	Decrease	+1:-1	55%	55%	45%	45%
1N 1 vs JCY 5+						
Spread Credit Rate	Decrease	+1:-1	75%	75%	67%	67%
1N 2+ vs JCY 2-4						
Spread Credit Rate	Decrease	+1:-1	55%	55%	45%	45%
1N 2+ vs JCY 5+						
Spread Credit Rate	Decrease	+1:-1	85%	85%	80%	80%
1N Mnth 1 vs JCC Mnth 1						
Spread Credit Rate	Decrease	+1:-1	55%	55%	45%	45%
1N Mnth 1 vs JCC Mnths 2-4						
Spread Credit Rate	Decrease	+1:-1	55%	55%	45%	45%
1N Mnth 1 vs JCC Mnths 5+						
Spread Credit Rate	Decrease	+1:-1	75%	75%	67%	67%
1N Mnth 2+ vs JCC Mnth 2-4						
Spread Credit Rate	Decrease	+1:-1	55%	55%	45%	45%
1N Mnth 2+ vs JCC Mnths 5+						
Spread Credit Rate	Decrease	+1:-1	85%	85%	80%	80%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
7H 1 vs JCY 1						
Spread Credit Rate	Decrease	+3:-25	60%	60%	48%	48%
7H 1 vs JCY 2-4						
Spread Credit Rate	Decrease	+3:-25	60%	60%	48%	48%
7H 1 vs JCY 5+						
Spread Credit Rate	Decrease	+3:-25	75%	75%	67%	67%
7H 2+ vs JCY 2-4						
Spread Credit Rate	Decrease	+3:-25	60%	60%	48%	48%
7H 2+ vs JCY 5+						
Spread Credit Rate	Decrease	+3:-25	85%	85%	80%	80%
7H Mnth 1 vs JCC Mnths 2-4						
Spread Credit Rate	Decrease	+3:-25	60%	60%	48%	48%
7H Mnth 1 vs JCC Mnths 5+						
Spread Credit Rate	Decrease	+3:-25	75%	75%	67%	67%
7H Mnth 1vs JCC Mnth 1						
Spread Credit Rate	Decrease	+3:-25	60%	60%	48%	48%
7H Mnths 2+ vs JCC Mnth 2-4						
Spread Credit Rate	Decrease	+3:-25	60%	60%	48%	48%
7H Mnths 2+ vs JCC Mnths 5+						
Spread Credit Rate	Decrease	+3:-25	85%	85%	80%	80%
Bloomberg Commodity Index Futures (70) vs. Underlying Basket no BZ						
Spread Credit Rate	Increase	+620:-13:-6:-	70%	70%	73%	73%
Bloomberg Commodity Index Swaps (DGS) vs. Underlying Basket No BZ						
Spread Credit Rate	Increase	+620:-13:-6:-	70%	70%	73%	73%
BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME) vs PROPANE NON-LDH MONT BELVIEU (OPIS) SWAP FUTURES (NY-1R - CME)						
Spread Credit Rate	Decrease	+1:-1	60%	60%	50%	50%
BRENT CRUDE OIL PENULTIMATE FINANCIAL FUTURES (NY-BB - CME) vs PROPANE NON-LDH MONT BELVIEU (OPIS) SWAP FUTURES (NY-1R - CME)						
Spread Credit Rate	Decrease	+1:-1	50%	50%	40%	40%
EUROPEAN FOB RDAM MARINE FUEL 0.5% BARGES (PLATTS) FUTURES (NY-R5F - CME) vs BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME)						
Spread Credit Rate	Decrease	+3:-19	85%	85%	82%	82%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
GASOIL 0.1 (PLATTS) BARGES FOB RDAM SWAP FUTURES (NY-VL - CME) vs DUBAI CRUDE OIL (PLATTS) CALENDAR SWAP FUTURES (NY-DC - CME)						
Spread Credit Rate	Decrease	+2:-15	68%	68%	60%	60%
GULF COAST ULSD (PLATTS) SWAP FUTURES (NY-LY - CME) vs BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME)						
Spread Credit Rate	Decrease	+1:-1	85%	85%	80%	80%
Spread Credit Rate	New	+1:-1			66%	66%
Spread Credit Rate	Decrease	+1:-1	75%	75%	70%	70%
GULF COAST ULSD (PLATTS) SWAP FUTURES (NY-LY - CME) vs DUBAI CRUDE OIL (PLATTS) CALENDAR SWAP FUTURES (NY-DC - CME)						
Spread Credit Rate	Decrease	+1:-1	85%	85%	80%	80%
GULF COAST ULSD (PLATTS) SWAP FUTURES (NY-LY - CME) vs LIGHT SWEET CRUDE OIL FUTURES (NY-CL - CME)						
Spread Credit Rate	Decrease	+1:-1	84%	84%	78%	78%
HEATING OIL FINANCIAL FUTURES (NYM-HO, BH, MP) vs DUBAI CRUDE OIL CALENDAR SWAP (NYM-DC - CME)						
Spread Credit Rate	Decrease	+1:-1	82%	82%	78%	78%
LIGHT SWEET CRUDE OIL FUTURES (NY-CL - CME) vs EUROPEAN PROPANE CIF ARA (ARGUS) SWAP FUTURES (NY-PS - CME)						
Spread Credit Rate	Decrease	+12:-1	70%	70%	65%	65%
LIGHT SWEET CRUDE OIL FUTURES (NY-CL, CS, WS) vs EIA FLAT TAX ON-HIGHWAY DIESEL SWAP FUTURES (NY-A5 - CME)						
Spread Credit Rate	Decrease	+1:-1	81%	81%	78%	78%
LIGHT SWEET CRUDE OIL FUTURES (NY-CL, CS, WS) vs EUROPEAN PROPANE CIF ARA (ARGUS) SWAP FUTURES (NY-PS - CME)						
Spread Credit Rate	Decrease	+12:-1	70%	70%	65%	65%
MONT BELVIEU LDH PROPANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-B0) vs. BRENT FINANCIAL FUTURES (NY-BB)						
Spread Credit Rate	Decrease	+1:-1	50%	50%	40%	40%
Spread Credit Rate	Decrease	+1:-1	50%	50%	40%	40%
MONT BELVIEU NATURAL GASOLINE 5 DECIMALS (OPIS) SWAP FUTURES (NY-7Q - CME) vs BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME)						
Spread Credit Rate	Decrease	+1:-1	80%	80%	72%	72%
CRUDE OIL SPREADS - Inter-commodity Spread Rates						
WTI MIDLAND (ARGUS) VS. WTI TRADE MONTH FUTURES (NY-WTT - CME) vs ARGUS LLS VS. WTI (ARGUS) TRADE MONTH SWAP FUTURES (NY-E5 - CME)						
Spread Credit Rate	Decrease	+1:-1	70%	70%	65%	65%
WTS (ARGUS) VS. WTI SPREAD TRADE MONTH SWAP FUTURES (NY-FH - CME) vs WTI MIDLAND (ARGUS) VS. WTI TRADE MONTH FUTURES (NY-WTT - CME)						
Spread Credit Rate	Decrease	+1:-1	76%	76%	70%	70%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
DME Products - Inter-commodity Spread Rates						
CONWAY PROPANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-8K) vs. DME OMAN CRUDE OIL (NY-OQ)						
Spread Credit Rate	Decrease	+1:-1	60%	60%	45%	45%
Spread Credit Rate	Decrease	+1:-1	60%	60%	45%	45%
EUROPEAN FOB RDAM MARINE FUEL 0.5% BARGES (PLATTS) FUTURES (NY-R5F - CME) vs OMAN CRUDE OIL (NY-OQ - CME)						
Spread Credit Rate	Decrease	+3:-19	70%	70%	60%	60%
MONT BELVIEU ISO-BUTANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-8I - CME) vs OMAN CRUDE OIL (NY-OQ - CME)						
Spread Credit Rate	Decrease	+1:-1	60%	60%	45%	45%
MT BELVIEU NAT GAS 5 D. OPIS (NY-7Q) vs. DME OMAN CRUDE OIL (NY-OQ)						
Spread Credit Rate	Decrease	+1:-1	75%	75%	65%	65%
NEW YORK HARBOR NO. 2 HEATING OIL FUTURES (NY-HO - CME) vs OMAN CRUDE OIL (NY-OQ - CME)						
Spread Credit Rate	Decrease	+1:-1	80%	80%	72%	72%
Spread Credit Rate	Decrease	+1:-1	84%	84%	78%	78%
OMAN CRUDE OIL (NY-OQ - CME) vs CONWAY NATURAL GASOLINE (OPIS) SWAP FUTURES (NY-8L - CME)						
Spread Credit Rate	Decrease	+1:-1	70%	70%	60%	60%
Spread Credit Rate	Decrease	+1:-1	55%	55%	45%	45%
OMAN CRUDE OIL (NY-OQ - CME) vs GULF COAST ULSD (PLATTS) SWAP FUTURES (NY-LY - CME)						
Spread Credit Rate	Decrease	+1:-1	85%	85%	80%	80%
OMAN CRUDE OIL (NY-OQ - CME) vs PROPANE NON-LDH MONT BELVIEU (OPIS) SWAP FUTURES (NY-1R - CME)						
Spread Credit Rate	Decrease	+1:-1	70%	70%	60%	60%
METALS - Inter-commodity Spread Rates						
Bloomberg Commodity Index Futures (70) vs. Underlying Basket no BZ						
Spread Credit Rate	Increase	+620:-13:-6:-	70%	70%	73%	73%
Bloomberg Commodity Index Swaps (DGS) vs. Underlying Basket No BZ						
Spread Credit Rate	Increase	+620:-13:-6:-	70%	70%	73%	73%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

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

NATURAL GAS - Inter-commodity Spread Rates

Bloomberg Commodity Index Futures (70) vs. Underlying Basket no BZ

Spread Credit Rate	Increase	+620:-13:-6:-	70%	70%	73%	73%
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Bloomberg Commodity Index Swaps (DGS) vs. Underlying Basket No BZ

Spread Credit Rate	Increase	+620:-13:-6:-	70%	70%	73%	73%
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SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
NGL/PETROCHEMICALS - Inter-commodity Spread Rates						
BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME) vs PROPANE NON-LDH MONT BELVIEU (OPIS) SWAP FUTURES (NY-1R - CME)						
Spread Credit Rate	Decrease	+1:-1	60%	60%	50%	50%
BRENT CRUDE OIL PENULTIMATE FINANCIAL FUTURES (NY-BB - CME) vs PROPANE NON-LDH MONT BELVIEU (OPIS) SWAP FUTURES (NY-1R - CME)						
Spread Credit Rate	Decrease	+1:-1	50%	50%	40%	40%
CONWAY NATURAL GASOLINE (OPIS) SWAP FUTURES (NY-8L - CME) vs GULF COAST ULSD (PLATTS) SWAP FUTURES (NY-LY - CME)						
Spread Credit Rate	Decrease	+1:-1	65%	65%	50%	50%
Spread Credit Rate	Decrease	+1:-1	75%	75%	65%	65%
CONWAY NORMAL BUTANE (OPIS) SWAP FUTURES (NY-8M - CME) vs JAPAN C&F NAPHTHA (PLATTS) SWAP FUTURES (NY-JA - CME)						
Spread Credit Rate	Decrease	+15:-2	50%	50%	40%	40%
CONWAY PROPANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-8K) vs. DME OMAN CRUDE OIL (NY-OQ)						
Spread Credit Rate	Decrease	+1:-1	60%	60%	45%	45%
Spread Credit Rate	Decrease	+1:-1	60%	60%	45%	45%
EIA FLAT TAX ON-HIGHWAY DIESEL SWAP FUTURES (NY-A5) vs. MONT BELVIEU LDH PROPANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-B0)						
Spread Credit Rate	Decrease	+1:-1	55%	55%	50%	50%
EIA FLAT TAX ON-HIGHWAY DIESEL SWAP FUTURES (NY-A5) vs. MONT BELVIEU NATURAL GASOLINE 5 DECIMALS (OPIS) SWAP FUTURES (NY-7Q)						
Spread Credit Rate	Decrease	+1:-1	80%	80%	72%	72%
Spread Credit Rate	Decrease	+1:-1	80%	80%	72%	72%
GASOLINE EURO-BOB OXY (ARGUS) NWE BARGES SWAP FUTURES (NY-7H) vs. CONWAY PROPANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-8K)						
Spread Credit Rate	Decrease	+3:-25	60%	60%	48%	48%
Spread Credit Rate	Decrease	+3:-25	60%	60%	48%	48%
GASOLINE EURO-BOB OXY (ARGUS) NWE BARGES SWAP FUTURES (NY-7H) vs. MONT BELVIEU NATURAL GASOLINE 5 DECIMALS (OPIS) SWAP FUTURES (NY-7Q)						
Spread Credit Rate	Decrease	+3:-25	75%	75%	65%	65%
Spread Credit Rate	Decrease	+3:-25	86%	86%	81%	81%
LIGHT SWEET CRUDE OIL FUTURES (NY-CL - CME) vs EUROPEAN PROPANE CIF ARA (ARGUS) SWAP FUTURES (NY-PS - CME)						
Spread Credit Rate	Decrease	+12:-1	70%	70%	65%	65%
LIGHT SWEET CRUDE OIL FUTURES (NY-CL, CS, WS) vs EUROPEAN PROPANE CIF ARA (ARGUS) SWAP FUTURES (NY-PS - CME)						
Spread Credit Rate	Decrease	+12:-1	70%	70%	65%	65%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
MONT BELVIEU ISO-BUTANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-8I - CME) vs OMAN CRUDE OIL (NY-OQ - CME)						
Spread Credit Rate	Decrease	+1:-1	60%	60%	45%	45%
MONT BELVIEU ISO-BUTANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-8I) vs. GULF COAST ULSD (PLATTS) SWAP FUTURES (NY-LY)						
Spread Credit Rate	Decrease	+1:-1	50%	50%	45%	45%
Spread Credit Rate	Decrease	+1:-1	60%	60%	50%	50%
MONT BELVIEU LDH PROPANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-B0 - CME) vs GULF COAST ULSD (PLATTS) SWAP FUTURES (NY-LY - CME)						
Spread Credit Rate	Decrease	+1:-1	55%	55%	50%	50%
MONT BELVIEU LDH PROPANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-B0) vs. BRENT FINANCIAL FUTURES (NY-BB)						
Spread Credit Rate	Decrease	+1:-1	50%	50%	40%	40%
Spread Credit Rate	Decrease	+1:-1	50%	50%	40%	40%
MONT BELVIEU LDH PROPANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-B0) vs. GULF COAST NO.6 FUEL OIL 3.0% (NY-MF)						
Spread Credit Rate	Decrease	+1:-1	65%	65%	55%	55%
Spread Credit Rate	Decrease	+1:-1	65%	65%	55%	55%
MONT BELVIEU NATURAL GASOLINE 5 DECIMALS (OPIS) SWAP FUTURES (NY-7Q - CME) vs BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME)						
Spread Credit Rate	Decrease	+1:-1	80%	80%	72%	72%
MT BELVIEU NAT GAS 5 D. OPIS (NY-7Q) vs. DME OMAN CRUDE OIL (NY-OQ)						
Spread Credit Rate	Decrease	+1:-1	75%	75%	65%	65%
NEW YORK HARBOR NO. 2 HEATING OIL FUTURES (NY-HO, MP, BH) vs ARGUS PROPANE FAR EAST INDEX SWAP FUTURES (NY-7E - CME)						
Spread Credit Rate	Decrease	+12:-1	55%	55%	50%	50%
OMAN CRUDE OIL (NY-OQ - CME) vs CONWAY NATURAL GASOLINE (OPIS) SWAP FUTURES (NY-8L - CME)						
Spread Credit Rate	Decrease	+1:-1	70%	70%	60%	60%
Spread Credit Rate	Decrease	+1:-1	55%	55%	45%	45%
OMAN CRUDE OIL (NY-OQ - CME) vs PROPANE NON-LDH MONT BELVIEU (OPIS) SWAP FUTURES (NY-1R - CME)						
Spread Credit Rate	Decrease	+1:-1	70%	70%	60%	60%
PROPANE NON-LDH MONT BELVIEU (OPIS) SWAP FUTURES (NY-1R - CME) vs EUROPEAN 3.5% FUEL OIL (PLATTS) BARGES FOB RDAM CALENDAR SWAP FUTURES (NY-UV - CME)						
Spread Credit Rate	Decrease	+19:-3	70%	70%	60%	60%
PROPANE NON-LDH MONT BELVIEU (OPIS) SWAP FUTURES (NY-1R - CME) vs GULF COAST NO. 6 FUEL OIL 3.0% (PLATTS) SWAP FUTURES (NY-MF - CME)						
Spread Credit Rate	Decrease	+1:-1	65%	65%	55%	55%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
PROPANE NON-LDH MONT BELVIEU (OPIS) SWAP FUTURES (NY-1R - CME) vs NEW YORK HARBOR RESIDUAL FUEL 1.0% (PLATTS) SWAP FUTURES (NY-MM - CME)						
Spread Credit Rate	Decrease	+1:-1	65%	65%	55%	55%
SINGAPORE MOGAS 92 UNLEADED (PLATTS) SWAP FUTURES (NY-1N - CME) vs MONT BELVIEU NATURAL GASOLINE 5 DECIMALS (OPIS) SWAP FUTURES (NY-7Q - CME)						
Spread Credit Rate	Decrease	+1:-1	70%	70%	60%	60%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
REFINED PRODUCTS - Inter-commodity Spread Rates						
Spread Credit Rate	Decrease	+1:-1	80%	80%	76%	76%
(NY-R5F - CME) vs (NY-CL - CME)						
Spread Credit Rate	Decrease	+1:-1	70%	70%	60%	60%
Spread Credit Rate	Decrease	+3:-19	85%	85%	81%	81%
(NY-R5F - CME) vs (NY-HO - CME)						
Spread Credit Rate	Decrease	+3:-19	65%	65%	52%	52%
Spread Credit Rate	Decrease	+3:-19	81%	81%	74%	74%
(NY-R5F - CME) vs (NY-LY - CME)						
Spread Credit Rate	Decrease	+3:-19	70%	70%	58%	58%
Spread Credit Rate	Decrease	+3:-19	83%	83%	76%	76%
(NY-R5F - CME) vs (NY-VL - CME)						
Spread Credit Rate	Decrease	+3:-19	70%	70%	60%	60%
Spread Credit Rate	Decrease	+3:-19	75%	75%	65%	65%
1N 1 vs JCY 1						
Spread Credit Rate	Decrease	+1:-1	55%	55%	45%	45%
1N 1 vs JCY 2-4						
Spread Credit Rate	Decrease	+1:-1	55%	55%	45%	45%
1N 1 vs JCY 5+						
Spread Credit Rate	Decrease	+1:-1	75%	75%	67%	67%
1N 2+ vs JCY 2-4						
Spread Credit Rate	Decrease	+1:-1	55%	55%	45%	45%
1N 2+ vs JCY 5+						
Spread Credit Rate	Decrease	+1:-1	85%	85%	80%	80%
1N Mnth 1 vs JCC Mnth 1						
Spread Credit Rate	Decrease	+1:-1	55%	55%	45%	45%
1N Mnth 1 vs JCC Mnths 2-4						
Spread Credit Rate	Decrease	+1:-1	55%	55%	45%	45%
1N Mnth 1 vs JCC Mnths 5+						
Spread Credit Rate	Decrease	+1:-1	75%	75%	67%	67%
1N Mnth 2+ vs JCC Mnth 2-4						
Spread Credit Rate	Decrease	+1:-1	55%	55%	45%	45%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
1N Mnth 2+ vs JCC Mnths 5+						
Spread Credit Rate	Decrease	+1:-1	85%	85%	80%	80%
7H 1 vs JCY 1						
Spread Credit Rate	Decrease	+3:-25	60%	60%	48%	48%
7H 1 vs JCY 2-4						
Spread Credit Rate	Decrease	+3:-25	60%	60%	48%	48%
7H 1 vs JCY 5+						
Spread Credit Rate	Decrease	+3:-25	75%	75%	67%	67%
7H 2+ vs JCY 2-4						
Spread Credit Rate	Decrease	+3:-25	60%	60%	48%	48%
7H 2+ vs JCY 5+						
Spread Credit Rate	Decrease	+3:-25	85%	85%	80%	80%
7H Mnth 1 vs JCC Mnths 2-4						
Spread Credit Rate	Decrease	+3:-25	60%	60%	48%	48%
7H Mnth 1 vs JCC Mnths 5+						
Spread Credit Rate	Decrease	+3:-25	75%	75%	67%	67%
7H Mnth 1vs JCC Mnth 1						
Spread Credit Rate	Decrease	+3:-25	60%	60%	48%	48%
7H Mnths 2+ vs JCC Mnth 2-4						
Spread Credit Rate	Decrease	+3:-25	60%	60%	48%	48%
7H Mnths 2+ vs JCC Mnths 5+						
Spread Credit Rate	Decrease	+3:-25	85%	85%	80%	80%
Bloomberg Commodity Index Futures (70) vs. Underlying Basket no BZ						
Spread Credit Rate	Increase	+620:-13:-6:-	70%	70%	73%	73%
Bloomberg Commodity Index Swaps (DGS) vs. Underlying Basket No BZ						
Spread Credit Rate	Increase	+620:-13:-6:-	70%	70%	73%	73%
CONWAY NATURAL GASOLINE (OPIS) SWAP FUTURES (NY-8L - CME) vs GULF COAST ULSD (PLATTS) SWAP FUTURES (NY-LY - CME)						
Spread Credit Rate	Decrease	+1:-1	65%	65%	50%	50%
Spread Credit Rate	Decrease	+1:-1	75%	75%	65%	65%
CONWAY NORMAL BUTANE (OPIS) SWAP FUTURES (NY-8M - CME) vs JAPAN C&F NAPHTHA (PLATTS) SWAP FUTURES (NY-JA - CME)						
Spread Credit Rate	Decrease	+15:-2	50%	50%	40%	40%
EIA FLAT TAX ON-HIGHWAY DIESEL SWAP FUTURES (NY-A5 - CME) vs EUROPEAN 3.5% FUEL OIL (PLATTS) BARGES FOB RDAM CALENDAR SWAP FUTURES (NY-UV - CME)						
Spread Credit Rate	Decrease	+19:-3	80%	80%	74%	74%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
EIA FLAT TAX ON-HIGHWAY DIESEL SWAP FUTURES (NY-A5 - CME) vs EUROPEAN NAPHTHA (PLATTS) CALENDAR SWAP FUTURES (NY-UN - CME)						
Spread Credit Rate	Decrease	+9:-1	75%	75%	70%	70%
EIA FLAT TAX ON-HIGHWAY DIESEL SWAP FUTURES (NY-A5 - CME) vs GULF COAST NO. 6 FUEL OIL 3.0% (PLATTS) SWAP FUTURES (NY-MF - CME)						
Spread Credit Rate	Decrease	+1:-1	80%	80%	74%	74%
EIA FLAT TAX ON-HIGHWAY DIESEL SWAP FUTURES (NY-A5 - CME) vs SINGAPORE MOGAS 92 UNLEADED (PLATTS) SWAP FUTURES (NY-1N - CME)						
Spread Credit Rate	Decrease	+1:-1	70%	70%	60%	60%
EIA FLAT TAX ON-HIGHWAY DIESEL SWAP FUTURES (NY-A5) vs. MONT BELVIEU LDH PROPANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-B0)						
Spread Credit Rate	Decrease	+1:-1	55%	55%	50%	50%
EIA FLAT TAX ON-HIGHWAY DIESEL SWAP FUTURES (NY-A5) vs. MONT BELVIEU NATURAL GASOLINE 5 DECIMALS (OPIS) SWAP FUTURES (NY-7Q)						
Spread Credit Rate	Decrease	+1:-1	80%	80%	72%	72%
Spread Credit Rate	Decrease	+1:-1	80%	80%	72%	72%
EIA FLAT TAX ONHWAY DIESEL SWP (NY-A5) vs NY HARBOR RESIDUAL FUEL 1.0% S(NY-MM)						
Spread Credit Rate	Decrease	+1:-1	77%	77%	72%	72%
EUROPEAN 3.5% FUEL OIL (PLATTS) BARGES FOB RDAM CALENDAR SWAP FUTURES (NY-UV - CME) vs NEW YORK HARBOR RESIDUAL FUEL 1.0% (PLATTS) SWAP FUTURES (NY-MM - CME)						
Spread Credit Rate	Decrease	+3:-19	85%	85%	82%	82%
Spread Credit Rate	Decrease	+3:-19	87%	87%	83%	83%
EUROPEAN FOB RDAM MARINE FUEL 0.5% BARGES (PLATTS) FUTURES (NY-R5F - CME) vs BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME)						
Spread Credit Rate	Decrease	+3:-19	85%	85%	82%	82%
EUROPEAN FOB RDAM MARINE FUEL 0.5% BARGES (PLATTS) FUTURES (NY-R5F - CME) vs EUROPEAN GASOIL BULLET SWAP FUTURES (NY-BG - CME)						
Spread Credit Rate	Decrease	+1:-1	68%	68%	62%	62%
EUROPEAN FOB RDAM MARINE FUEL 0.5% BARGES (PLATTS) FUTURES (NY-R5F - CME) vs OMAN CRUDE OIL (NY-OQ - CME)						
Spread Credit Rate	Decrease	+3:-19	70%	70%	60%	60%
EUROPEAN GASOIL (ICE) CALENDAR SWAP (NYM-GX - CME) vs EUROPEAN 3.5% FUEL OIL ROTTERDAM CALENDAR SWAP (NYM-UV - CME)						
Spread Credit Rate	Decrease	+1:-1	60%	60%	55%	55%
EUROPEAN GASOIL (ICE) SWAP FUTURES (NY-GX - CME) vs EUROPEAN 3.5% FUEL OIL (PLATTS) BARGES FOB RDAM CALENDAR SWAP FUTURES (NY-UV - CME)						
Spread Credit Rate	Decrease	+1:-1	60%	60%	55%	55%
GASOIL 0.1 (PLATTS) BARGES FOB RDAM SWAP FUTURES (NY-VL - CME) vs DUBAI CRUDE OIL (PLATTS) CALENDAR SWAP FUTURES (NY-DC - CME)						
Spread Credit Rate	Decrease	+2:-15	68%	68%	60%	60%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
GASOIL 0.1 (PLATTS) BARGES FOB RDAM SWAP FUTURES (NY-VL - CME) vs EUROPEAN 3.5% FUEL OIL (PLATTS) BARGES FOB RDAM CALENDAR SWAP FUTURES (NY-UV - CME)						
Spread Credit Rate	Decrease	+1:-1	55%	55%	48%	48%
GASOIL 0.1 (PLATTS) BARGES FOB RDAM SWAP FUTURES (NY-VL - CME) vs RBOB GASOLINE FUTURES (NY-RB - CME)						
Spread Credit Rate	Decrease	+2:-15	65%	65%	60%	60%
GASOLINE EURO-BOB OXY (ARGUS) NWE BARGES SWAP FUTURES (NY-7H - CME) vs GULF COAST ULSD (PLATTS) SWAP FUTURES (NY-LY - CME)						
Spread Credit Rate	Decrease	+3:-25	86%	86%	82%	82%
GASOLINE EURO-BOB OXY (ARGUS) NWE BARGES SWAP FUTURES (NY-7H) vs. CONWAY PROPANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-8K)						
Spread Credit Rate	Decrease	+3:-25	60%	60%	48%	48%
Spread Credit Rate	Decrease	+3:-25	60%	60%	48%	48%
GASOLINE EURO-BOB OXY (ARGUS) NWE BARGES SWAP FUTURES (NY-7H) vs. MONT BELVIEU NATURAL GASOLINE 5 DECIMALS (OPIS) SWAP FUTURES (NY-7Q)						
Spread Credit Rate	Decrease	+3:-25	75%	75%	65%	65%
Spread Credit Rate	Decrease	+3:-25	86%	86%	81%	81%
GROUP THREE UNLEADED GASOLINE (PLATTS) SWAP FUTURES (NY-A9 - CME) vs GULF COAST ULSD (PLATTS) SWAP FUTURES (NY-LY - CME)						
Spread Credit Rate	Decrease	+1:-1	80%	80%	75%	75%
GROUP THREE UNLEADED GASOLINE (PLATTS) SWAP FUTURES (NY-A9 - CME) vs SINGAPORE MOGAS 92 UNLEADED (PLATTS) SWAP FUTURES (NY-1N - CME)						
Spread Credit Rate	New	+1:-1			79%	79%
Spread Credit Rate	Decrease	+1:-1	85%	85%	81%	81%
GULF COAST CBOB GASOLINE A2 (PLATTS) SWAP FUTURES (NY-CRG - CME) vs SINGAPORE MOGAS 92 UNLEADED (PLATTS) SWAP FUTURES (NY-1N - CME)						
Spread Credit Rate	Decrease	+1:-1	75%	75%	70%	70%
GULF COAST ULSD (PLATTS) SWAP FUTURES (NY-LY - CME) vs BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME)						
Spread Credit Rate	Decrease	+1:-1	85%	85%	80%	80%
Spread Credit Rate	New	+1:-1			66%	66%
Spread Credit Rate	Decrease	+1:-1	75%	75%	70%	70%
GULF COAST ULSD (PLATTS) SWAP FUTURES (NY-LY - CME) vs DUBAI CRUDE OIL (PLATTS) CALENDAR SWAP FUTURES (NY-DC - CME)						
Spread Credit Rate	Decrease	+1:-1	85%	85%	80%	80%
GULF COAST ULSD (PLATTS) SWAP FUTURES (NY-LY - CME) vs EUROPEAN 3.5% FUEL OIL (PLATTS) BARGES FOB RDAM CALENDAR SWAP FUTURES (NY-UV - CME)						
Spread Credit Rate	Decrease	+19:-3	82%	82%	75%	75%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
GULF COAST ULSD (PLATTS) SWAP FUTURES (NY-LY - CME) vs GULF COAST NO. 6 FUEL OIL 3.0% (PLATTS) SWAP FUTURES (NY-MF - CME)						
Spread Credit Rate	Decrease	+1:-1	80%	80%	72%	72%
GULF COAST ULSD (PLATTS) SWAP FUTURES (NY-LY - CME) vs LIGHT SWEET CRUDE OIL FUTURES (NY-CL - CME)						
Spread Credit Rate	Decrease	+1:-1	84%	84%	78%	78%
GULF COAST ULSD (PLATTS) SWAP FUTURES (NY-LY - CME) vs RBOB GASOLINE FUTURES (NY-RB - CME)						
Spread Credit Rate	Decrease	+1:-1	70%	70%	60%	60%
GULF COAST ULSD (PLATTS) SWAP FUTURES (NY-LY - CME) vs SINGAPORE MOGAS 92 UNLEADED (PLATTS) SWAP FUTURES (NY-1N - CME)						
Spread Credit Rate	Decrease	+1:-1	82%	82%	75%	75%
GULF COAST ULSD CALENDAR SWAP (NY-LY) vs NY HARBOR RESIDUAL FUEL 1.0% S (NY-MM)						
Spread Credit Rate	Decrease	+1:-1	85%	85%	80%	80%
HEATING OIL FINANCIAL FUTURES (NYM-HO, BH, MP) vs DUBAI CRUDE OIL CALENDAR SWAP (NYM-DC - CME)						
Spread Credit Rate	Decrease	+1:-1	82%	82%	78%	78%
JAPAN C&F NAPHTHA (PLATTS) SWAP FUTURES (NY-JA - CME) vs NEW YORK HARBOR NO. 2 HEATING OIL FUTURES (NY-HO - CME)						
Spread Credit Rate	Decrease	+1:-9	65%	65%	55%	55%
JAPAN C&F NAPHTHA (PLATTS) SWAP FUTURES (NY-JA - CME) vs SINGAPORE FUEL OIL 380 CST (PLATTS) SWAP FUTURES (NY-SE - CME)						
Spread Credit Rate	Decrease	+1:-1	82%	82%	75%	75%
JAPAN C&F NAPHTHA (PLATTS) SWAP FUTURES (NY-JA - CME) vs SINGAPORE MOGAS 92 UNLEADED (PLATTS) SWAP FUTURES (NY-1N - CME)						
Spread Credit Rate	Decrease	+2:-15	85%	85%	80%	80%
JAPAN C&F NAPHTHA (PLATTS) SWAP FUTURES (NY-JA) vs. GULF COAST ULSD (PLATTS) SWAP FUTURES (NY-LY)						
Spread Credit Rate	Decrease	+2:-15	83%	83%	78%	78%
LIGHT SWEET CRUDE OIL FUTURES (NY-CL, CS, WS) vs EIA FLAT TAX ON-HIGHWAY DIESEL SWAP FUTURES (NY-A5 - CME)						
Spread Credit Rate	Decrease	+1:-1	81%	81%	78%	78%
MONT BELVIEU ISO-BUTANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-8I) vs. GULF COAST ULSD (PLATTS) SWAP FUTURES (NY-LY)						
Spread Credit Rate	Decrease	+1:-1	50%	50%	45%	45%
Spread Credit Rate	Decrease	+1:-1	60%	60%	50%	50%
MONT BELVIEU LDH PROPANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-B0 - CME) vs GULF COAST ULSD (PLATTS) SWAP FUTURES (NY-LY - CME)						
Spread Credit Rate	Decrease	+1:-1	55%	55%	50%	50%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
MONT BELVIEU LDH PROPANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-B0) vs. GULF COAST NO.6 FUEL OIL 3.0% (NY-MF)						
Spread Credit Rate	Decrease	+1:-1	65%	65%	55%	55%
Spread Credit Rate	Decrease	+1:-1	65%	65%	55%	55%
NEW YORK HARBOR NO. 2 HEATING OIL FUTURES (NY-HO - CME) vs OMAN CRUDE OIL (NY-OQ - CME)						
Spread Credit Rate	Decrease	+1:-1	80%	80%	72%	72%
Spread Credit Rate	Decrease	+1:-1	84%	84%	78%	78%
NEW YORK HARBOR NO. 2 HEATING OIL FUTURES (NY-HO, MP, BH) vs ARGUS PROPANE FAR EAST INDEX SWAP FUTURES (NY-7E - CME)						
Spread Credit Rate	Decrease	+12:-1	55%	55%	50%	50%
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)						
Spread Credit Rate	Decrease	+7:-1	90%	90%	88%	88%
OMAN CRUDE OIL (NY-OQ - CME) vs GULF COAST ULSD (PLATTS) SWAP FUTURES (NY-LY - CME)						
Spread Credit Rate	Decrease	+1:-1	85%	85%	80%	80%
PROPANE NON-LDH MONT BELVIEU (OPIS) SWAP FUTURES (NY-1R - CME) vs EUROPEAN 3.5% FUEL OIL (PLATTS) BARGES FOB RDAM CALENDAR SWAP FUTURES (NY-UV - CME)						
Spread Credit Rate	Decrease	+19:-3	70%	70%	60%	60%
PROPANE NON-LDH MONT BELVIEU (OPIS) SWAP FUTURES (NY-1R - CME) vs GULF COAST NO. 6 FUEL OIL 3.0% (PLATTS) SWAP FUTURES (NY-MF - CME)						
Spread Credit Rate	Decrease	+1:-1	65%	65%	55%	55%
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)						
Spread Credit Rate	Decrease	+1:-1	65%	65%	55%	55%
SINGAPORE FOB MARINE FUEL 0.5% (PLATTS) FUTURES (NY-S5F - CME) vs EUROPEAN GASOIL BULLET SWAP FUTURES (NY-BG - CME)						
Spread Credit Rate	Decrease	+1:-1	60%	60%	55%	55%
Spread Credit Rate	Decrease	+1:-1	68%	68%	62%	62%
SINGAPORE JET KEROSENE (PLATTS) SWAP FUTURES (NY-KS - CME) vs RBOB GASOLINE FUTURES (NY-RB - CME)						
Spread Credit Rate	Decrease	+1:-1	70%	70%	65%	65%
SINGAPORE MOGAS 92 UNLEADED (PLATTS) SWAP FUTURES (NY-1N - CME) vs MONT BELVIEU NATURAL GASOLINE 5 DECIMALS (OPIS) SWAP FUTURES (NY-7Q - CME)						
Spread Credit Rate	Decrease	+1:-1	70%	70%	60%	60%