



09-432

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

FROM: CME Clearing

SUBJECT: Performance Bond Requirements:

DATE: Tuesday, October 06, 2009

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

Wednesday, October 07, 2009.

Current rates as of:

Tuesday, October 06, 2009.

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

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

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

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
Outright Rates								
NYMEX CRACKS AND SPREADS - Outright Rates								
CHICAGO UNL GAS PL VS RBOB SPR (3C)								
3C	Spec		Decrease	USD	3,740	3,400	2,200	2,000
3C	Hedge/Member		Decrease	USD	3,400	3,400	2,000	2,000
DATED TO FRONTLINE BRENT CLNDR SWAP (FY)								
FY	Spec		Decrease	USD	1,620	1,200	810	600
FY	Hedge/Member		Decrease	USD	1,200	1,200	600	600
EURO GASOIL 10PPM VS. ICE (ET)								
ET	Spec		Increase	USD	4,950	4,500	6,600	6,000
ET	Hedge/Member		Increase	USD	4,500	4,500	6,000	6,000
FUELOIL SWAP:CARGOES VS.BARGES (FS)								
FS	Spec		Decrease	USD	8,800	8,000	6,050	5,500
FS	Hedge/Member		Decrease	USD	8,000	8,000	5,500	5,500
GASOIL 0.1 CIF NWE V. ISE SWAP (TU)								
TU	Spec		Increase	USD	4,400	4,000	5,500	5,000
TU	Hedge/Member		Increase	USD	4,000	4,000	5,000	5,000
GASOLINE UP-DOWN (ARGUS) SWAP (UZ)								
UZ	Spec		Decrease	USD	2,200	2,000	1,375	1,250
UZ	Hedge/Member		Decrease	USD	2,000	2,000	1,250	1,250
GC GASOLINE CRK SPR (ARGUS) (CK)								
CK	Spec		Decrease	USD	4,950	4,500	3,300	3,000
CK	Hedge/Member		Decrease	USD	4,500	4,500	3,000	3,000
GULF COAST NO.6 FUEL OIL CRACK SWAP (MG)								
MG	Spec		Decrease	USD	2,750	2,500	2,200	2,000
MG	Hedge/Member		Decrease	USD	2,500	2,500	2,000	2,000
GULF COAST ULSD CRACK SPREAD (GY)								
GY	Spec		Decrease	USD	6,600	6,000	3,300	3,000
GY	Hedge/Member		Decrease	USD	6,000	6,000	3,000	3,000
HEATING OIL VS. ICE GASOIL (HA)								
HA	Spec		Decrease	USD	4,125	3,750	3,300	3,000
HA	Hedge/Member		Decrease	USD	3,750	3,750	3,000	3,000
ICE BRENT DUBAI SWAP (DB)								
DB	Spec	Tier 1	Decrease	USD	3,300	3,000	2,200	2,000
DB	Hedge/Member	Tier 1	Decrease	USD	3,000	3,000	2,000	2,000
DB	Spec	Tier 2	Increase	USD	1,650	1,500	2,200	2,000
DB	Hedge/Member	Tier 2	Increase	USD	1,500	1,500	2,000	2,000

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
Outright Rates								
JET BARGES VS. ICE GASOIL SWAP (JR)								
JR	Spec		Decrease	USD	14,300	13,000	11,000	10,000
JR	Hedge/Member		Decrease	USD	13,000	13,000	10,000	10,000
JET CIF NWE VS ICE (JC)								
JC	Spec		Decrease	USD	13,200	12,000	11,000	10,000
JC	Hedge/Member		Decrease	USD	12,000	12,000	10,000	10,000
LA JET FUEL VS NYM NO 2 HO SPRD SWP (MQ)								
MQ	Spec		Decrease	USD	3,850	3,500	2,200	2,000
MQ	Hedge/Member		Decrease	USD	3,500	3,500	2,000	2,000
LLS (ARGUS) V WTI TRD MTH SWP (WK)								
WK	Spec		Decrease	USD	1,650	1,500	990	900
WK	Hedge/Member		Decrease	USD	1,500	1,500	900	900
LLS (ARGUS) V WTI SWAP (WJ)								
WJ	Spec		Decrease	USD	1,650	1,500	990	900
WJ	Hedge/Member		Decrease	USD	1,500	1,500	900	900
NO. 2 UP-DOWN SPREAD CALENDAR SWAP (UT)								
UT	Spec	Tier 1	Decrease	USD	1,650	1,500	825	750
UT	Hedge/Member	Tier 1	Decrease	USD	1,500	1,500	750	750
UT	Spec	Tier 2	Decrease	USD	1,100	1,000	825	750
UT	Hedge/Member	Tier 2	Decrease	USD	1,000	1,000	750	750
NY HARBOR RESIDUAL FUEL CRACK SWAP (ML)								
ML	Spec		Decrease	USD	2,750	2,500	2,200	2,000
ML	Hedge/Member		Decrease	USD	2,500	2,500	2,000	2,000
NYMEX ULSD VS. NYMEX HO (UY)								
UY	Spec		Decrease	USD	2,200	2,000	1,650	1,500
UY	Hedge/Member		Decrease	USD	2,000	2,000	1,500	1,500
RBOB CRACK SPREAD (RM)								
RM	Spec	Tier 1	Decrease	USD	2,475	2,250	1,925	1,750
RM	Hedge/Member	Tier 1	Decrease	USD	2,250	2,250	1,750	1,750
RM	Spec	Tier 2	Decrease	USD	2,475	2,250	1,925	1,750
RM	Hedge/Member	Tier 2	Decrease	USD	2,250	2,250	1,750	1,750
RM	Spec	Tier 3	Decrease	USD	2,200	2,000	1,650	1,500
RM	Hedge/Member	Tier 3	Decrease	USD	2,000	2,000	1,500	1,500
RM	Spec	Tier 4	Decrease	USD	2,200	2,000	1,650	1,500
RM	Hedge/Member	Tier 4	Decrease	USD	2,000	2,000	1,500	1,500

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
Outright Rates								
RBOB UP-DOWN CALENDAR SWAP (RV)								
RV	Spec	Tier 1	Decrease	USD	2,200	2,000	1,375	1,250
RV	Hedge/Member	Tier 1	Decrease	USD	2,000	2,000	1,250	1,250
RV	Spec	Tier 2	Decrease	USD	2,200	2,000	1,375	1,250
RV	Hedge/Member	Tier 2	Decrease	USD	2,000	2,000	1,250	1,250
RV	Spec	Tier 3	Decrease	USD	1,650	1,500	825	750
RV	Hedge/Member	Tier 3	Decrease	USD	1,500	1,500	750	750
RBOB VS. HEATING OIL SWAP (RH)								
RH	Spec		Decrease	USD	3,300	3,000	1,925	1,750
RH	Hedge/Member		Decrease	USD	3,000	3,000	1,750	1,750
SINGAPORE GASOIL VS ICE (GA)								
GA	Spec		Decrease	USD	3,850	3,500	2,475	2,250
GA	Hedge/Member		Decrease	USD	3,500	3,500	2,250	2,250
SINGAPORE JET KERO GASOIL SWAP (RK)								
RK	Spec		Decrease	USD	2,200	2,000	1,375	1,250
RK	Hedge/Member		Decrease	USD	2,000	2,000	1,250	1,250
UP DOWN GC LSD VS NMX HO SPRD (YL)								
YL	Spec	Tier 1	Decrease	USD	2,200	2,000	1,650	1,500
YL	Hedge/Member	Tier 1	Decrease	USD	2,000	2,000	1,500	1,500
YL	Spec	Tier 2	Decrease	USD	2,200	2,000	1,650	1,500
YL	Hedge/Member	Tier 2	Decrease	USD	2,000	2,000	1,500	1,500
UP DOWN GC ULSD VS NMX HO SPRD (LT)								
LT	Spec	Tier 1	Decrease	USD	1,650	1,500	1,100	1,000
LT	Hedge/Member	Tier 1	Decrease	USD	1,500	1,500	1,000	1,000
LT	Spec	Tier 2	Decrease	USD	1,650	1,500	1,100	1,000
LT	Hedge/Member	Tier 2	Decrease	USD	1,500	1,500	1,000	1,000
LT	Spec	Tier 3	Decrease	USD	1,100	1,000	550	500
LT	Hedge/Member	Tier 3	Decrease	USD	1,000	1,000	500	500
USGC UNL 87 CRACK SPREAD CAL SWAP (RU)								
RU	Spec	Tier 1	Decrease	USD	3,850	3,500	2,750	2,500
RU	Hedge/Member	Tier 1	Decrease	USD	3,500	3,500	2,500	2,500
RU	Spec	Tier 2	Decrease	USD	3,850	3,500	2,750	2,500
RU	Hedge/Member	Tier 2	Decrease	USD	3,500	3,500	2,500	2,500
RU	Spec	Tier 3	Decrease	USD	2,750	2,500	1,650	1,500
RU	Hedge/Member	Tier 3	Decrease	USD	2,500	2,500	1,500	1,500
WTI-BRENT CALENDAR SWAP (BK)								
BK	Spec		Decrease	USD	880	800	770	700
BK	Hedge/Member		Decrease	USD	800	800	700	700

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
Outright Rates								
WTS (ARGUS) V WTI TRD MTH SWP (FH)								
FH	Spec		Decrease	USD	1,650	1,500	990	900
FH	Hedge/Member		Decrease	USD	1,500	1,500	900	900

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
Outright Rates								
NYMEX PETROLEUM PRODUCTS - Outright Rates								
BUTANE 5 DECIMAL (D0)								
D0	Spec		Decrease	USD	8,250	7,500	4,950	4,500
D0	Hedge/Member		Decrease	USD	7,500	7,500	4,500	4,500
D0	Spec		Decrease	USD	4,950	4,500	4,400	4,000
D0	Hedge/Member		Decrease	USD	4,500	4,500	4,000	4,000
CONWAY NAT GASOLINE SWAP (8L)								
8L	Spec		Decrease	USD	6,600	6,000	4,950	4,500
8L	Hedge/Member		Decrease	USD	6,000	6,000	4,500	4,500
CONWAY NORMAL BUTANE SWAP (8M)								
8M	Spec		Decrease	USD	5,500	5,000	4,400	4,000
8M	Hedge/Member		Decrease	USD	5,000	5,000	4,000	4,000
CONWAY PROPANE (OPIS) SWAP (W1)								
W1	Spec		Decrease	USD	4,400	4,000	3,300	3,000
W1	Hedge/Member		Decrease	USD	4,000	4,000	3,000	3,000
CONWAY PROPANE 5 DEC. SWP (8K)								
8K	Spec		Decrease	USD	4,400	4,000	3,300	3,000
8K	Hedge/Member		Decrease	USD	4,000	4,000	3,000	3,000
ETHANE 5 DECIMAL (C0)								
C0	Spec		Decrease	USD	2,750	2,500	2,200	2,000
C0	Hedge/Member		Decrease	USD	2,500	2,500	2,000	2,000
JET AVIA FUEL(PLTT) FOB V. ICE (1V)								
1V	Spec		Decrease	USD	28,350	21,000	20,250	15,000
1V	Hedge/Member		Decrease	USD	21,000	21,000	15,000	15,000
MONT BELVIEU ETHANE (OPIS) SW (W8)								
W8	Spec		Decrease	USD	2,750	2,500	2,200	2,000
W8	Hedge/Member		Decrease	USD	2,500	2,500	2,000	2,000
MONT BELVIEU ISBT (OPIS) SW (Y2)								
Y2	Spec		Decrease	USD	8,250	7,500	4,950	4,500
Y2	Hedge/Member		Decrease	USD	7,500	7,500	4,500	4,500
MONT BELVIEU NRM BTN (OPIS) SW (Z2)								
Z2	Spec		Decrease	USD	4,950	4,500	4,400	4,000
Z2	Hedge/Member		Decrease	USD	4,500	4,500	4,000	4,000
MT BELVIEU ETHANE BALMO SWP (8C)								
8C	Spec		Decrease	USD	4,950	4,500	2,200	2,000
8C	Hedge/Member		Decrease	USD	4,500	4,500	2,000	2,000

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
Outright Rates								
MT BELVIEU LDH PROPANE BALMO (8O)								
8O	Spec		Decrease	USD	4,950	4,500	3,300	3,000
8O	Hedge/Member		Decrease	USD	4,500	4,500	3,000	3,000
MT BELVIEU NAT GASOLINE BALMO (R0)								
R0	Spec		Decrease	USD	6,050	5,500	4,950	4,500
R0	Hedge/Member		Decrease	USD	5,500	5,500	4,500	4,500
MT BELVIEU NORMAL BUTANE BALM (8J)								
8J	Spec		Decrease	USD	6,050	5,500	4,400	4,000
8J	Hedge/Member		Decrease	USD	5,500	5,500	4,000	4,000
MT BELVIEU ISO BUTANE 5 DEC. S (8I)								
8I	Spec		Decrease	USD	8,250	7,500	4,950	4,500
8I	Hedge/Member		Decrease	USD	7,500	7,500	4,500	4,500
MT. BELVIEU ETHANE (OPIS) BLM (V4)								
V4	Spec		Decrease	USD	4,950	4,500	2,200	2,000
V4	Hedge/Member		Decrease	USD	4,500	4,500	2,000	2,000
MT. BELVIEU NAT GAS (OPIS) BLM (V5)								
V5	Spec		Decrease	USD	6,050	5,500	4,950	4,500
V5	Hedge/Member		Decrease	USD	5,500	5,500	4,500	4,500
MT. BELVIEU NRM BTN (OPIS) BLM (Y5)								
Y5	Spec		Decrease	USD	6,050	5,500	4,400	4,000
Y5	Hedge/Member		Decrease	USD	5,500	5,500	4,000	4,000
MT. BELVIEU PROPANE (OPIS) BLM (V6)								
V6	Spec		Decrease	USD	4,950	4,500	3,300	3,000
V6	Hedge/Member		Decrease	USD	4,500	4,500	3,000	3,000
MT. BLVU PHSCL ISOBUTANE OPIS (3L)								
3L	Spec		Decrease	USD	8,250	7,500	4,950	4,500
3L	Hedge/Member		Decrease	USD	7,500	7,500	4,500	4,500
MT. BLVU PHSCL LDH PROPAN OPIS (3N)								
3N	Spec		Decrease	USD	4,950	4,500	3,850	3,500
3N	Hedge/Member		Decrease	USD	4,500	4,500	3,500	3,500
MT. BLVU PHSCL NONLDH PN OPIS (3P)								
3P	Spec		Decrease	USD	4,950	4,500	3,300	3,000
3P	Hedge/Member		Decrease	USD	4,500	4,500	3,000	3,000
MT. BLVU PHSCL NRML BUTAN OPIS (3M)								
3M	Spec		Decrease	USD	6,050	5,500	4,400	4,000
3M	Hedge/Member		Decrease	USD	5,500	5,500	4,000	4,000

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
Outright Rates								
NY JET FUEL(PL) VS HEATING OIL (1U)								
1U	Spec		Decrease	USD	6,750	5,000	3,375	2,500
1U	Hedge/Member		Decrease	USD	5,000	5,000	2,500	2,500
PROPANE 5 DECIMAL (B0)								
B0	Spec		Decrease	USD	3,850	3,500	3,300	3,000
B0	Hedge/Member		Decrease	USD	3,500	3,500	3,000	3,000
PROPANE SWAP (PT)								
PT	Spec		Decrease	USD	3,850	3,500	3,300	3,000
PT	Hedge/Member		Decrease	USD	3,500	3,500	3,000	3,000
ULSD UP-DOWN(ARGUS) SWAP (US)								
US	Spec		Decrease	USD	1,650	1,500	1,100	1,000
US	Hedge/Member		Decrease	USD	1,500	1,500	1,000	1,000

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
NYMEX CRUDE PRODUCTS - Inter-commodity Spread Rates						
BRENT CRUDE OIL BULLET SWAP FINANCIAL (NYM-BB - CME) vs 1% FUEL OIL (PLATTS) CARGOES CIF NWE SWAP (NYM-1X - CME)						
Spread Credit Rate	New	+19:-3			65%	65%
BRENT CRUDE OIL BULLET SWAP FINANCIAL (NYM-BB - CME) vs 1.5% FUEL OIL ROTTERDAM BARGES SWAP (NYM-Z3 - CME)						
Spread Credit Rate	New	+19:-3			65%	65%
BRENT CRUDE OIL BULLET SWAP FINANCIAL (NYM-BB - CME) vs DUBAI CRUDE OIL CALENDAR SWAP (NYM-DC - CME)						
Spread Credit Rate	New	+1:-1			70%	70%
BRENT CRUDE OIL BULLET SWAP FINANCIAL (NYM-BB - CME) vs EUROBOB GASOLINE 10PPM (PLATTS) RDAM FOB BARGES SWAP (NYM-7P - CME)						
Spread Credit Rate	New	+25:-3			65%	65%
BRENT CRUDE OIL BULLET SWAP FINANCIAL (NYM-BB - CME) vs EUROPEAN 1% FUEL OIL NORTHWEST EUROPE (NWE) CALENDAR SWAP (PLATTS) (NYM-UF - CME)						
Spread Credit Rate	New	+33:-5			65%	65%
BRENT CRUDE OIL BULLET SWAP FINANCIAL (NYM-BB - CME) vs EUROPEAN 1% FUEL OIL ROTTERDAM CALENDAR SWAP (NYM-UH - CME)						
Spread Credit Rate	New	+33:-5			65%	65%
BRENT CRUDE OIL BULLET SWAP FINANCIAL (NYM-BB - CME) vs EUROPEAN 3.5% FUEL OIL ROTTERDAM BALMO CALENDAR SWAP (NYM-UV - CME)						
Spread Credit Rate	New	+33:-5			65%	65%
BRENT CRUDE OIL BULLET SWAP FINANCIAL (NYM-BB - CME) vs EUROPEAN DATED BRENT SWAP (NYM-UB - CME)						
Spread Credit Rate	New	+1:-1			80%	80%
BRENT CRUDE OIL BULLET SWAP FINANCIAL (NYM-BB - CME) vs EUROPEAN GASOIL (ICE) CALENDAR SWAP (NYM-GX - CME)						
Spread Credit Rate	New	+15:-2			65%	65%
BRENT CRUDE OIL BULLET SWAP FINANCIAL (NYM-BB - CME) vs EUROPEAN GASOIL 10 PPM ROTTERDAM BARGES CALENDAR SWAP (NYM-GT - CME)						
Spread Credit Rate	New	+15:-2			65%	65%
BRENT CRUDE OIL BULLET SWAP FINANCIAL (NYM-BB - CME) vs EUROPEAN GASOIL BULLET SWAP (NYM-BG - CME)						
Spread Credit Rate	Decrease	+15:-2	75%	75%	65%	65%
BRENT CRUDE OIL BULLET SWAP FINANCIAL (NYM-BB - CME) vs EUROPEAN JET KERO NORTHWEST EUROPE (NWE) CALENDAR SWAP (PLATTS) (NYM-UJ - CME)						
Spread Credit Rate	New	+9:-1			65%	65%
BRENT CRUDE OIL BULLET SWAP FINANCIAL (NYM-BB - CME) vs EUROPEAN JET KERO ROTTERDAM CALENDAR SWAP (NYM-UR - CME)						
Spread Credit Rate	New	+9:-1			65%	65%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
BRENT CRUDE OIL BULLET SWAP FINANCIAL (NYM-BB - CME) vs EUROPEAN NAPHTHA CALENDAR SWAP (NYM-UN - CME)						
Spread Credit Rate	New	+9:-1			65%	65%
BRENT CRUDE OIL BULLET SWAP FINANCIAL (NYM-BB - CME) vs GASOIL 0.1 CARGOES CIF NWE SWAP (NYM-TW - CME)						
Spread Credit Rate	New	+15:-2			65%	65%
BRENT CRUDE OIL BULLET SWAP FINANCIAL (NYM-BB - CME) vs GASOIL 0.1 CARGOES FOB NORTHWEST EUROPE (NWE) SWAP (NYM-WR - CME)						
Spread Credit Rate	New	+15:-2			65%	65%
BRENT CRUDE OIL BULLET SWAP FINANCIAL (NYM-BB - CME) vs GASOIL 0.1 ROTTERDAM BARGES SWAP (NYM-VL - CME)						
Spread Credit Rate	New	+15:-2			65%	65%
BRENT CRUDE OIL BULLET SWAP FINANCIAL (NYM-BB - CME) vs GASOIL 10PPM CARGOES CIF NWE SWAP (NYM-TY - CME)						
Spread Credit Rate	New	+15:-2			65%	65%
BRENT CRUDE OIL BULLET SWAP FINANCIAL (NYM-BB - CME) vs HEATING OIL (NYM-HO - CME)						
Spread Credit Rate	Increase	+1:-1	70%	70%	80%	80%
BRENT CRUDE OIL BULLET SWAP FINANCIAL (NYM-BB - CME) vs JAPAN C&F NAPHTHA (PLATTS) SWAP (NYM-JA - CME)						
Spread Credit Rate	New	+9:-1			65%	65%
BRENT CRUDE OIL BULLET SWAP FINANCIAL (NYM-BB - CME) vs NY HARBOR RBOB (BLENDSTOCK) GAS (NYM-RB - CME)						
Spread Credit Rate	Increase	+1:-1	70%	70%	75%	75%
BRENT CRUDE OIL BULLET SWAP FINANCIAL (NYM-BB - CME) vs OMAN CRUDE OIL (NYM-OQ - CME)						
Spread Credit Rate	Decrease	+1:-1	90%	90%	70%	70%
BRENT CRUDE OIL BULLET SWAP FINANCIAL (NYM-BB - CME) vs PREMIUM UNLEADED 10 PPM (PLATTS) CARGOES CIF NWE SWAP (NYM-4G - CME)						
Spread Credit Rate	New	+25:-3			65%	65%
BRENT CRUDE OIL BULLET SWAP FINANCIAL (NYM-BB - CME) vs PREMIUM UNLEADED GASOLINE 10 PPM (PLATTS) RDAM FOB (NYM-7L - CME)						
Spread Credit Rate	New	+25:-3			65%	65%
BRENT CRUDE OIL BULLET SWAP FINANCIAL (NYM-BB - CME) vs SINGAPORE 380CST FUEL OIL (PLATTS) SWAP (NYM-SE - CME)						
Spread Credit Rate	New	+19:-3			65%	65%
BRENT CRUDE OIL BULLET SWAP FINANCIAL (NYM-BB - CME) vs SINGAPORE JET KEROSENE SWAP (NYM-KS - CME)						
Spread Credit Rate	Increase	+1:-1	55%	55%	65%	65%
BRENT CRUDE OIL BULLET SWAP FINANCIAL (NYM-BB - CME) vs SINGAPORE NAPHTHA SWAP (NYM-SP - CME)						
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
Inter-commodity Spread Rates						
DUBAI CRUDE OIL CALENDAR SWAP (NYM-DC - CME) vs EUROPEAN GASOIL (ICE) CALENDAR SWAP (NYM-GX - CME)						
Spread Credit Rate	New	+15:-2			65%	65%
DUBAI CRUDE OIL CALENDAR SWAP (NYM-DC - CME) vs EUROPEAN GASOIL BULLET SWAP (NYM-BG - CME)						
Spread Credit Rate	New	+15:-2			65%	65%
DUBAI CRUDE OIL CALENDAR SWAP (NYM-DC - CME) vs JAPAN C&F NAPHTHA (PLATTS) SWAP (NYM-JA - CME)						
Spread Credit Rate	New	+9:-1			65%	65%
DUBAI CRUDE OIL CALENDAR SWAP (NYM-DC - CME) vs OMAN CRUDE OIL (NYM-OQ - CME)						
Spread Credit Rate	Decrease	+1:-1	90%	90%	70%	70%
DUBAI CRUDE OIL CALENDAR SWAP (NYM-DC - CME) vs REBCO CRUDE OIL (NYM-RE - CME)						
Spread Credit Rate	New	+1:-1			70%	70%
DUBAI CRUDE OIL CALENDAR SWAP (NYM-DC - CME) vs REBCO CRUDE OIL FINANCIAL (NYM-R2 - CME)						
Spread Credit Rate	New	+1:-1			70%	70%
DUBAI CRUDE OIL CALENDAR SWAP (NYM-DC - CME) vs SINGAPORE 380 FUEL OIL (NYM-HZ - CME)						
Spread Credit Rate	New	+5:-8			65%	65%
DUBAI CRUDE OIL CALENDAR SWAP (NYM-DC - CME) vs SINGAPORE 380CST FUEL OIL (PLATTS) SWAP (NYM-SE - CME)						
Spread Credit Rate	New	+19:-3			65%	65%
DUBAI CRUDE OIL CALENDAR SWAP (NYM-DC - CME) vs SINGAPORE NAPHTHA SWAP (NYM-SP - CME)						
Spread Credit Rate	New	+9:-1			65%	65%
EUROPEAN 1% FUEL OIL ROTTERDAM CALENDAR SWAP (NYM-UH - CME) vs LIGHT, SWEET CRUDE OIL FUTURES (NYM-CL - CME)						
Spread Credit Rate	Decrease	+5:-33	80%	80%	65%	65%
EUROPEAN 3.5% FUEL OIL MED CALENDAR SWAP (MEDITERR (NYM-UI - CME) vs LIGHT, SWEET CRUDE OIL FUTURES (NYM-CL - CME)						
Spread Credit Rate	Decrease	+5:-33	80%	80%	65%	65%
EUROPEAN 3.5% FUEL OIL ROTTERDAM CALENDAR SWAP (NYM-UV - CME) vs LIGHT, SWEET CRUDE OIL FUTURES (NYM-CL - CME)						
Spread Credit Rate	Decrease	+5:-33	80%	80%	65%	65%
EUROPEAN GASOIL BULLET SWAP (NYM-BG - CME) vs LIGHT, SWEET CRUDE OIL FUTURES (NYM-CL - CME)						
Spread Credit Rate	Increase	+2:-15	50%	50%	70%	70%
EUROPEAN SINGAPORE FUEL OIL 180CST CALENDAR SWAP (NYM-UA - CME) vs LIGHT, SWEET CRUDE OIL FUTURES (NYM-CL - CME)						
Spread Credit Rate	Decrease	+5:-33	75%	75%	60%	60%
GULF COAST GASOLINE (ARGUS) CALENDAR SWAP (NYM-AW - CME) vs LIGHT, SWEET CRUDE OIL FUTURES (NYM-CL - CME)						
Spread Credit Rate	Increase	+1:-1	65%	65%	70%	70%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
GULF COAST JET (ARGUS) CALENDAR SWAP (NYM-AF - CME) vs LIGHT, SWEET CRUDE OIL FUTURES (NYM-CL - CME)						
Spread Credit Rate	Increase	+1:-1	65%	65%	70%	70%
LIGHT, SWEET CRUDE OIL FUTURES (NYM-CL - CME) vs CHICAGO ETHANOL (PLATTS) SWAP (NYM-CU - CME)						
Spread Credit Rate	Increase	+1:-1	50%	50%	60%	60%
LIGHT, SWEET CRUDE OIL FUTURES (NYM-CL - CME) vs CONWAY PROPANE (OPIS) SWAP (NYM-W1 - CME)						
Spread Credit Rate	New	+1:-1			65%	65%
LIGHT, SWEET CRUDE OIL FUTURES (NYM-CL - CME) vs EUROPEAN 1% FUEL OIL CALENDAR SWAP (NORTHWEST EURO (NYM-UF - CME)						
Spread Credit Rate	Decrease	+33:-5	80%	80%	65%	65%
LIGHT, SWEET CRUDE OIL FUTURES (NYM-CL - CME) vs GULF COAST HEATING OIL (ARGUS) SWAP (NYM-4U - CME)						
Spread Credit Rate	New	+1:-1			70%	70%
LIGHT, SWEET CRUDE OIL FUTURES (NYM-CL - CME) vs GULF COAST ULTRA LOW SULFUR DIESEL ((USLD) PLATTS) CALENDAR SWAP (NYM-LY - CME)						
Spread Credit Rate	New	+1:-1			70%	70%
LIGHT, SWEET CRUDE OIL FUTURES (NYM-CL - CME) vs GULF COAST ULTRA LOW SULFUR DIESEL (ULSD) (ARGUS) CALENDAR SWAP (NYM-AJ - CME)						
Spread Credit Rate	New	+1:-1			70%	70%
LIGHT, SWEET CRUDE OIL FUTURES (NYM-CL - CME) vs MONT BELVIEU ETHANE (OPIS) SWAP (NYM-W8 - CME)						
Spread Credit Rate	New	+1:-1			65%	65%
LIGHT, SWEET CRUDE OIL FUTURES (NYM-CL - CME) vs MONT BELVIEU ISOBUTANE (OPIS) SWAP (NYM-Y2 - CME)						
Spread Credit Rate	Increase	+1:-1	50%	50%	65%	65%
LIGHT, SWEET CRUDE OIL FUTURES (NYM-CL - CME) vs NEW YORK 0.3% FUEL OIL HIPR (PLATTS) SWAP (NYM-8N - CME)						
Spread Credit Rate	New	+1:-1			70%	70%
LIGHT, SWEET CRUDE OIL FUTURES (NYM-CL - CME) vs NEW YORK 0.7% FUEL OIL (PLATTS) SWAP (NYM-Y4 - CME)						
Spread Credit Rate	New	+1:-1			70%	70%
LIGHT, SWEET CRUDE OIL FUTURES (NYM-CL - CME) vs NEW YORK 2.2% FUEL OIL (PLATTS) SWAP (NYM-Y3 - CME)						
Spread Credit Rate	New	+1:-1			70%	70%
LIGHT, SWEET CRUDE OIL FUTURES (NYM-CL - CME) vs NEW YORK 3.0% FUEL OIL (PLATTS) SWAP (NYM-H1 - CME)						
Spread Credit Rate	New	+1:-1			65%	65%
LIGHT, SWEET CRUDE OIL FUTURES (NYM-CL - CME) vs NEW YORK ETHANOL (PLATTS) SWAP (NYM-EZ - CME)						
Spread Credit Rate	Increase	+1:-1	50%	50%	60%	60%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
LIGHT, SWEET CRUDE OIL FUTURES (NYM-CL - CME) vs NEW YORK HARBOR 0.3% FUEL OIL SWAP (NYM-VQ - CME)						
Spread Credit Rate	New	+1:-1			70%	70%
LIGHT, SWEET CRUDE OIL FUTURES (NYM-CL - CME) vs NEW YORK HARBOR ETHANOL (NYM-QE - CME)						
Spread Credit Rate	Increase	+1:-1	50%	50%	60%	60%
LIGHT, SWEET CRUDE OIL FUTURES (NYM-CL - CME) vs NEW YORK HARBOR RESIDUAL FUEL 1.0% SULFUR (PLATTS) SWAP (NYM-MM - CME)						
Spread Credit Rate	New	+1:-1			70%	70%
LIGHT, SWEET CRUDE OIL FUTURES (NYM-CL - CME) vs NEW YORK HEATING OIL (PLATTS) SWAP (NYM-YF - CME)						
Spread Credit Rate	New	+1:-1			70%	70%
LIGHT, SWEET CRUDE OIL FUTURES (NYM-CL - CME) vs NEW YORK JET FUEL (ARGUS) SWAP (NYM-4Y - CME)						
Spread Credit Rate	New	+1:-1			70%	70%
LIGHT, SWEET CRUDE OIL FUTURES (NYM-CL - CME) vs NEW YORK JET FUEL (PLATTS) SWAP (NYM-1Q - CME)						
Spread Credit Rate	New	+1:-1			70%	70%
LIGHT, SWEET CRUDE OIL FUTURES (NYM-CL - CME) vs NEW YORK ULTRA LOW SULFUR DIESEL (ULSD) (ARGUS) SWAP (NYM-5Y - CME)						
Spread Credit Rate	New	+1:-1			70%	70%
LIGHT, SWEET CRUDE OIL FUTURES (NYM-CL - CME) vs NEW YORK ULTRA LOW SULFUR DIESEL (USLD) CALENDAR SWAP (NYM-YS - CME)						
Spread Credit Rate	New	+1:-1			70%	70%
LIGHT, SWEET CRUDE OIL FUTURES (NYM-CL - CME) vs OMAN CRUDE OIL (NYM-OQ - CME)						
Spread Credit Rate	Decrease	+1:-1	90%	90%	75%	75%
LIGHT, SWEET CRUDE OIL FUTURES (NYM-CL - CME) vs SINGAPORE 380CST FUEL OIL (PLATTS) SWAP (NYM-SE - CME)						
Spread Credit Rate	New	+19:-3			60%	60%
LIGHT, SWEET CRUDE OIL FUTURES (NYM-CL - CME) vs SINGAPORE GASOIL SWAP (NYM-SG - CME)						
Spread Credit Rate	New	+1:-1			60%	60%
MONT BELVIEU NATURAL GASOLINE (OPIS) SWAP (NYM-W3 - CME) vs LIGHT, SWEET CRUDE OIL FUTURES (NYM-CL - CME)						
Spread Credit Rate	Decrease	+1:-1	90%	90%	65%	65%
NY HARBOR RBOB GASOLINE (NYM-RB - CME) vs LIGHT, SWEET CRUDE OIL FUTURES (NYM-CL - CME)						
Spread Credit Rate	Decrease	+1:-1	85%	85%	80%	80%
NYMEX RBOB MINUTE MARKER DAILY SWAP (NYM-6R - CME) vs LIGHT, SWEET CRUDE OIL FUTURES (NYM-CL - CME)						
Spread Credit Rate	Increase	+1:-1	75%	75%	80%	80%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
NYMEX NATURAL GAS PRODUCTS - Inter-commodity Spread Rates						
ANR OK BASIS SWAP (PLATTS IFERC) (NYM-NE - CME) vs HENRY HUB NATURAL GAS (NYM-NG - CME) vs PJM FINANCIALLY SETTLED MONTHLY FUTUR						
Spread Credit Rate	Decrease	+16:+4:-5	60%	60%	45%	45%
ANR OK BASIS SWAP (PLATTS IFERC) (NYM-NE - CME) vs HENRY HUB NATURAL GAS (NYM-NG - CME) vs PJM FINANCIALLY SETTLED MONTHLY FUTURES - PEAK (NYM-JM - CME)						
Spread Credit Rate	Decrease	+16:+4:-5	60%	60%	45%	45%
ANR OKLAHOMA NATURAL GAS BASIS SWAP (PLATTS IFERC) (NYM-NE - CME) vs HENRY HUB NATURAL GAS (NYM-NG - CME) vs NYISO ZONE A PEAK MONTHLY SWAP (NYM-KA - CME)						
Spread Credit Rate	New	+4:+1:-2			45%	45%
COLUMBIA GAS TRANSMISSION CORP. APPALACHIA (TCO) B (NYM-TC - CME) vs HENRY HUB NATURAL GAS (NYM-NG - CME) vs PJM FINANCIALLY SET						
Spread Credit Rate	Decrease	+16:+4:-5	60%	60%	45%	45%
COLUMBIA GAS TRANSMISSION CORP. APPALACHIA (TCO) B (NYM-TC - CME) vs HENRY HUB NATURAL GAS (NYM-NG - CME) vs PJM FINANCIALLY SETTLED MONTHLY FUTURES - PEAK (NYM-JM - CME)						
Spread Credit Rate	Decrease	+16:+4:-5	60%	60%	45%	45%
DOMINION APPALACHIA NATURAL GAS BASIS SWAP (PLATTS IFERC) (NYM-PG - CME) vs HENRY HUB NATURAL GAS (NYM-NG - CME) vs NYISO ZONE A PEAK MONTHLY SWAP (NYM-KA - CME)						
Spread Credit Rate	New	+4:+1:-2			45%	45%
DOW JONES MID-COLUMBIA (NYM-DO - CME) vs HENRY HUB NATURAL GAS (NYM-NG - CME)						
Spread Credit Rate	Decrease	+1:-1	70%	70%	45%	45%
HENRY HUB NATURAL GAS (NYM-NG - CME) vs TCO APPALACHIA NATURAL GAS BASIS SWAP (PLATTS IFERC) (NYM-TC - CME) vs NYISO ZONE A PEAK MONTHLY SWAP (NYM-KA - CME)						
Spread Credit Rate	New	+1:+4:-2			45%	45%
HOUSTON SHIP CHANNEL BASIS SWAP (PLATTS IFERC) (NYM-NH - CME) vs HENRY HUB NATURAL GAS (NYM-NG - CME) vs PJM FINANCIALLY SETTLED						
Spread Credit Rate	Decrease	+16:+4:-5	60%	60%	45%	45%
HOUSTON SHIP CHANNEL BASIS SWAP (PLATTS IFERC) (NYM-NH - CME) vs HENRY HUB NATURAL GAS (NYM-NG - CME) vs PJM FINANCIALLY SETTLED MONTHLY FUTURES - PEAK (NYM-JM - CME)						
Spread Credit Rate	Decrease	+16:+4:-5	60%	60%	45%	45%
HOUSTON SHIP CHANNEL NATURAL GAS BASIS SWAP (PLATTS IFERC) (NYM-NH - CME) vs HENRY HUB NATURAL GAS (NYM-NG - CME) vs NYISO ZONE A PEAK MONTHLY SWAP (NYM-KA - CME)						
Spread Credit Rate	New	+4:+1:-2			45%	45%
MICHCON NATURAL GAS BASIS SWAP (PLATTS IFERC) (NYM-NF - CME) vs HENRY HUB NATURAL GAS (NYM-NG - CME) vs NYISO ZONE A PEAK MONTHLY SWAP (NYM-KA - CME)						
Spread Credit Rate	New	+4:+1:-2			45%	45%
MICHIGAN CONSOLIDATED GAS CO. (MICHCON) BASIS SWAP (NYM-NF - CME) vs HENRY HUB NATURAL GAS (NYM-NG - CME) vs PJM FINANCIALLY SET						
Spread Credit Rate	Decrease	+16:+4:-5	60%	60%	45%	45%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
MICHIGAN CONSOLIDATED GAS CO. (MICHCON) BASIS SWAP (NYM-NF - CME) vs HENRY HUB NATURAL GAS (NYM-NG - CME) vs PJM FINANCIALLY SETTLED MONTHLY FUTURES - PEAK (NYM-JM - CME)						
Spread Credit Rate	Decrease	+16:+4:-5	60%	60%	45%	45%
NATURAL GAS PIPELINE (NGPL) MIDCONTINENT BASIS SWAP (PLATTS IFERC) (NYM-NL - CME) vs HENRY HUB NATURAL GAS (NYM-NG - CME) vs NYISO ZONE A PEAK MONTHLY SWAP (NYM-KA - CME)						
Spread Credit Rate	New	+4:+1:-2			45%	45%
NATURAL GAS PIPELINE CO. OF AMERICA (NGPL) LOUISIA (NYM-NY - CME) vs HENRY HUB NATURAL GAS (NYM-NG - CME) vs PJM FINANCIALLY SETTLED MONTHLY FUTURES - PEAK (NYM-JM - CME)						
Spread Credit Rate	Decrease	+16:+4:-5	60%	60%	45%	45%
NATURAL GAS PIPELINE CO. OF AMERICA (NGPL) MID-CON (NYM-NL - CME) vs HENRY HUB NATURAL GAS (NYM-NG - CME) vs PJM FINANCIALLY SET						
Spread Credit Rate	Decrease	+16:+4:-5	60%	60%	45%	45%
NATURAL GAS PIPELINE CO. OF AMERICA (NGPL) MID-CON (NYM-NL - CME) vs HENRY HUB NATURAL GAS (NYM-NG - CME) vs PJM FINANCIALLY SETTLED MONTHLY FUTURES - PEAK (NYM-JM - CME)						
Spread Credit Rate	Decrease	+16:+4:-5	60%	60%	45%	45%
NATURAL GAS PIPELINE CO. OF AMERICA (NGPL) TEXOK B (NYM-PD - CME) vs HENRY HUB NATURAL GAS (NYM-NG - CME) vs PJM FINANCIALLY SET						
Spread Credit Rate	Decrease	+16:+4:-5	60%	60%	45%	45%
NATURAL GAS PIPELINE CO. OF AMERICA (NGPL) TEXOK B (NYM-PD - CME) vs HENRY HUB NATURAL GAS (NYM-NG - CME) vs PJM FINANCIALLY SETTLED MONTHLY FUTURES - PEAK (NYM-JM - CME)						
Spread Credit Rate	Decrease	+16:+4:-5	60%	60%	45%	45%
NATURAL GAS PIPELINE TEXAS/OKLAHOMA NATURAL GAS BASIS SWAP (PLATTS IFERC) (NYM-PD - CME) vs HENRY HUB NATURAL GAS (NYM-NG - CME) vs NYISO ZONE A PEAK MONTHLY SWAP (NYM-KA - CME)						
Spread Credit Rate	New	+4:-1:+2			45%	45%
NORTHERN NATURAL GAS DEMARCATION BASIS SWAP (NYM-PE - CME) vs HENRY HUB NATURAL GAS (NYM-NG - CME) vs NYISO ZONE A PEAK MONTHLY SWAP (NYM-KA - CME)						
Spread Credit Rate	New	+4:+1:-2			45%	45%
NORTHERN NATURAL GAS DEMARCATION BASIS SWAP (PLATT (NYM-PE - CME) vs HENRY HUB NATURAL GAS (NYM-NG - CME) vs PJM FINANCIALLY SET						
Spread Credit Rate	Decrease	+16:+4:-5	60%	60%	45%	45%
NORTHERN NATURAL GAS DEMARCATION BASIS SWAP (PLATT (NYM-PE - CME) vs HENRY HUB NATURAL GAS (NYM-NG - CME) vs PJM FINANCIALLY SETTLED MONTHLY FUTURES - PEAK (NYM-JM - CME)						
Spread Credit Rate	Decrease	+16:+4:-5	60%	60%	45%	45%
NORTHERN NATURAL GAS VENTURA, IOWA BASIS SWAP (PLATTS IFERC) (NYM-PF - CME) vs HENRY HUB NATURAL GAS (NYM-NG - CME) vs NYISO ZONE A PEAK MONTHLY SWAP (NYM-KA - CME)						
Spread Credit Rate	New	+4:+1:-2			45%	45%
NYISO ZONE G PEAK MONTHLY SWAP (NYM-KG - CME) vs HENRY HUB NATURAL GAS (NYM-NG - CME)						
Spread Credit Rate	New	+2:-1			45%	45%
NYISO ZONE J PEAK MONTHLY SWAP (NYM-KJ - CME) vs HENRY HUB NATURAL GAS (NYM-NG - CME)						
Spread Credit Rate	New	+2:-1			45%	45%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
PJM FINANCIALLY SETTLED MONTHLY FUTURES - PEAK (NYM-JM - CME) vs HENRY HUB NATURAL GAS (NYM-NG - CME)						
Spread Credit Rate	Decrease	+5:-4	60%	60%	45%	45%
PJM OFF-PEAK LMP SWAP (NYM-JP - CME) vs HENRY HUB NATURAL GAS (NYM-NG - CME)						
Spread Credit Rate	New	+1:-1			50%	50%
SUMAS BASIS SWAP (PLATTS IFERC) (NYM-NK - CME) vs HENRY HUB NATURAL GAS (NYM-NG - CME) vs PJM FINANCIALLY SETTLED MONTHLY FUTURE						
Spread Credit Rate	Decrease	+16:+4:-5	60%	60%	45%	45%
SUMAS BASIS SWAP (PLATTS IFERC) (NYM-NK - CME) vs HENRY HUB NATURAL GAS (NYM-NG - CME) vs PJM FINANCIALLY SETTLED MONTHLY FUTURES - PEAK (NYM-JM - CME)						
Spread Credit Rate	Decrease	+16:+4:-5	60%	60%	45%	45%
SUMAS NATURAL GAS BASIS SWAP (PLATTS IFERC) (NYM-NK - CME) vs HENRY HUB NATURAL GAS (NYM-NG - CME) vs NYISO ZONE A PEAK MONTHLY SWAP (NYM-KA - CME)						
Spread Credit Rate	New	+4:+1:-2			45%	45%
SUMAS NATURAL GAS BASIS SWAP (PLATTS IFERC) (NYM-NK - CME) vs HENRY HUB NATURAL GAS (NYM-NG - CME) vs NYISO ZONE J PEAK MONTHLY SWAP (NYM-KJ - CME)						
Spread Credit Rate	New	+4:+1:-2			45%	45%
TEXAS EASTERN ZONE M-3 BASIS SWAP (PLATTS IFERC) (NYM-NX - CME) vs HENRY HUB NATURAL GAS (NYM-NG - CME) vs PJM FINANCIALLY SETTLED MONTHLY FUTURE						
Spread Credit Rate	Decrease	+16:+4:-5	60%	60%	45%	45%
TEXAS EASTERN ZONE M-3 BASIS SWAP (PLATTS IFERC) (NYM-NX - CME) vs HENRY HUB NATURAL GAS (NYM-NG - CME) vs PJM FINANCIALLY SETTLED MONTHLY FUTURES - PEAK (NYM-JM - CME)						
Spread Credit Rate	Decrease	+16:+4:-5	60%	60%	45%	45%
TEXAS EASTERN ZONE M-3 NATURAL GAS BASIS SWAP (PLATTS IFERC) (NYM-NX - CME) vs HENRY HUB NATURAL GAS (NYM-NG - CME) vs NYISO ZONE A PEAK MONTHLY SWAP (NYM-KA - CME)						
Spread Credit Rate	New	+4:+1:-2			45%	45%
TRANSCO ZONE 6 BASIS SWAP (PLATTS IFERC) (NYM-NZ - CME) vs HENRY HUB NATURAL GAS (NYM-NG - CME) vs PJM FINANCIALLY SETTLED MONTHLY FUTURE						
Spread Credit Rate	Decrease	+16:+4:-5	60%	60%	45%	45%
TRANSCO ZONE 6 BASIS SWAP (PLATTS IFERC) (NYM-NZ - CME) vs HENRY HUB NATURAL GAS (NYM-NG - CME) vs PJM FINANCIALLY SETTLED MONTHLY FUTURES - PEAK (NYM-JM - CME)						
Spread Credit Rate	Decrease	+16:+4:-5	60%	60%	45%	45%
VENTURA BASIS SWAP (PLATTS IFERC) (NYM-PF - CME) vs HENRY HUB NATURAL GAS (NYM-NG - CME) vs PJM FINANCIALLY SETTLED MONTHLY FUTURE						
Spread Credit Rate	Decrease	+16:+4:-5	60%	60%	45%	45%
VENTURA BASIS SWAP (PLATTS IFERC) (NYM-PF - CME) vs HENRY HUB NATURAL GAS (NYM-NG - CME) vs PJM FINANCIALLY SETTLED MONTHLY FUTURES - PEAK (NYM-JM - CME)						
Spread Credit Rate	Decrease	+16:+4:-5	60%	60%	45%	45%
WAHA, TEXAS NATURAL GAS BASIS SWAP (PLATTS IFERC) (NYM-NW - CME) vs HENRY HUB NATURAL GAS (NYM-NG - CME) vs NYISO ZONE A PEAK MONTHLY SWAP (NYM-KA - CME)						
Spread Credit Rate	New	+8:-2:-1			45%	45%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
NYMEX PETROLEUM PRODUCTS - Inter-commodity Spread Rates						
BRENT CRUDE OIL BULLET SWAP FINANCIAL (NYM-BB - CME) vs 1% FUEL OIL (PLATTS) CARGOES CIF NWE SWAP (NYM-1X - CME)						
Spread Credit Rate	New	+19:-3			65%	65%
BRENT CRUDE OIL BULLET SWAP FINANCIAL (NYM-BB - CME) vs 1.5% FUEL OIL ROTTERDAM BARGES SWAP (NYM-Z3 - CME)						
Spread Credit Rate	New	+19:-3			65%	65%
BRENT CRUDE OIL BULLET SWAP FINANCIAL (NYM-BB - CME) vs EUROBOB GASOLINE 10PPM (PLATTS) RDAM FOB BARGES SWAP (NYM-7P - CME)						
Spread Credit Rate	New	+25:-3			65%	65%
BRENT CRUDE OIL BULLET SWAP FINANCIAL (NYM-BB - CME) vs EUROPEAN 1% FUEL OIL NORTHWEST EUROPE (NWE) CALENDAR SWAP (PLATTS) (NYM-UF - CME)						
Spread Credit Rate	New	+33:-5			65%	65%
BRENT CRUDE OIL BULLET SWAP FINANCIAL (NYM-BB - CME) vs EUROPEAN 1% FUEL OIL ROTTERDAM CALENDAR SWAP (NYM-UH - CME)						
Spread Credit Rate	New	+33:-5			65%	65%
BRENT CRUDE OIL BULLET SWAP FINANCIAL (NYM-BB - CME) vs EUROPEAN 3.5% FUEL OIL ROTTERDAM BALMO CALENDAR SWAP (NYM-UV - CME)						
Spread Credit Rate	New	+33:-5			65%	65%
BRENT CRUDE OIL BULLET SWAP FINANCIAL (NYM-BB - CME) vs EUROPEAN GASOIL (ICE) CALENDAR SWAP (NYM-GX - CME)						
Spread Credit Rate	New	+15:-2			65%	65%
BRENT CRUDE OIL BULLET SWAP FINANCIAL (NYM-BB - CME) vs EUROPEAN GASOIL 10 PPM ROTTERDAM BARGES CALENDAR SWAP (NYM-GT - CME)						
Spread Credit Rate	New	+15:-2			65%	65%
BRENT CRUDE OIL BULLET SWAP FINANCIAL (NYM-BB - CME) vs EUROPEAN GASOIL BULLET SWAP (NYM-BG - CME)						
Spread Credit Rate	Decrease	+15:-2	75%	75%	65%	65%
BRENT CRUDE OIL BULLET SWAP FINANCIAL (NYM-BB - CME) vs EUROPEAN JET KERO NORTHWEST EUROPE (NWE) CALENDAR SWAP (PLATTS) (NYM-UJ - CME)						
Spread Credit Rate	New	+9:-1			65%	65%
BRENT CRUDE OIL BULLET SWAP FINANCIAL (NYM-BB - CME) vs EUROPEAN JET KERO ROTTERDAM CALENDAR SWAP (NYM-UR - CME)						
Spread Credit Rate	New	+9:-1			65%	65%
BRENT CRUDE OIL BULLET SWAP FINANCIAL (NYM-BB - CME) vs EUROPEAN NAPHTHA CALENDAR SWAP (NYM-UN - CME)						
Spread Credit Rate	New	+9:-1			65%	65%
BRENT CRUDE OIL BULLET SWAP FINANCIAL (NYM-BB - CME) vs GASOIL 0.1 CARGOES CIF NWE SWAP (NYM-TW - CME)						
Spread Credit Rate	New	+15:-2			65%	65%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
BRENT CRUDE OIL BULLET SWAP FINANCIAL (NYM-BB - CME) vs GASOIL 0.1 CARGOES FOB NORTHWEST EUROPE (NWE) SWAP (NYM-WR - CME)						
Spread Credit Rate	New	+15:-2			65%	65%
BRENT CRUDE OIL BULLET SWAP FINANCIAL (NYM-BB - CME) vs GASOIL 0.1 ROTTERDAM BARGES SWAP (NYM-VL - CME)						
Spread Credit Rate	New	+15:-2			65%	65%
BRENT CRUDE OIL BULLET SWAP FINANCIAL (NYM-BB - CME) vs GASOIL 10PPM CARGOES CIF NWE SWAP (NYM-TY - CME)						
Spread Credit Rate	New	+15:-2			65%	65%
BRENT CRUDE OIL BULLET SWAP FINANCIAL (NYM-BB - CME) vs HEATING OIL (NYM-HO - CME)						
Spread Credit Rate	Increase	+1:-1	70%	70%	80%	80%
BRENT CRUDE OIL BULLET SWAP FINANCIAL (NYM-BB - CME) vs JAPAN C&F NAPHTHA (PLATTS) SWAP (NYM-JA - CME)						
Spread Credit Rate	New	+9:-1			65%	65%
BRENT CRUDE OIL BULLET SWAP FINANCIAL (NYM-BB - CME) vs NY HARBOR RBOB (BLENDSTOCK) GAS (NYM-RB - CME)						
Spread Credit Rate	Increase	+1:-1	70%	70%	75%	75%
BRENT CRUDE OIL BULLET SWAP FINANCIAL (NYM-BB - CME) vs PREMIUM UNLEADED 10 PPM (PLATTS) CARGOES CIF NWE SWAP (NYM-4G - CME)						
Spread Credit Rate	New	+25:-3			65%	65%
BRENT CRUDE OIL BULLET SWAP FINANCIAL (NYM-BB - CME) vs PREMIUM UNLEADED GASOLINE 10 PPM (PLATTS) RDM FOB (NYM-7L - CME)						
Spread Credit Rate	New	+25:-3			65%	65%
BRENT CRUDE OIL BULLET SWAP FINANCIAL (NYM-BB - CME) vs SINGAPORE 380CST FUEL OIL (PLATTS) SWAP (NYM-SE - CME)						
Spread Credit Rate	New	+19:-3			65%	65%
BRENT CRUDE OIL BULLET SWAP FINANCIAL (NYM-BB - CME) vs SINGAPORE JET KEROSENE SWAP (NYM-KS - CME)						
Spread Credit Rate	Increase	+1:-1	55%	55%	65%	65%
BRENT CRUDE OIL BULLET SWAP FINANCIAL (NYM-BB - CME) vs SINGAPORE NAPHTHA SWAP (NYM-SP - CME)						
Spread Credit Rate	New	+1:-1			65%	65%
DUBAI CRUDE OIL CALENDAR SWAP (NYM-DC - CME) vs EUROPEAN GASOIL (ICE) CALENDAR SWAP (NYM-GX - CME)						
Spread Credit Rate	New	+15:-2			65%	65%
DUBAI CRUDE OIL CALENDAR SWAP (NYM-DC - CME) vs EUROPEAN GASOIL BULLET SWAP (NYM-BG - CME)						
Spread Credit Rate	New	+15:-2			65%	65%
DUBAI CRUDE OIL CALENDAR SWAP (NYM-DC - CME) vs JAPAN C&F NAPHTHA (PLATTS) SWAP (NYM-JA - CME)						
Spread Credit Rate	New	+9:-1			65%	65%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
DUBAI CRUDE OIL CALENDAR SWAP (NYM-DC - CME) vs SINGAPORE 380 FUEL OIL (NYM-HZ - CME)						
Spread Credit Rate	New	+5:-8			65%	65%
DUBAI CRUDE OIL CALENDAR SWAP (NYM-DC - CME) vs SINGAPORE 380CST FUEL OIL (PLATTS) SWAP (NYM-SE - CME)						
Spread Credit Rate	New	+19:-3			65%	65%
DUBAI CRUDE OIL CALENDAR SWAP (NYM-DC - CME) vs SINGAPORE NAPHTHA SWAP (NYM-SP - CME)						
Spread Credit Rate	New	+9:-1			65%	65%
EUROPEAN 1% FUEL OIL ROTTERDAM CALENDAR SWAP (NYM-UH - CME) vs LIGHT, SWEET CRUDE OIL FUTURES (NYM-CL - CME)						
Spread Credit Rate	Decrease	+5:-33	80%	80%	65%	65%
EUROPEAN 3.5% FUEL OIL MED CALENDAR SWAP (MEDITERR (NYM-UI - CME) vs LIGHT, SWEET CRUDE OIL FUTURES (NYM-CL - CME)						
Spread Credit Rate	Decrease	+5:-33	80%	80%	65%	65%
EUROPEAN 3.5% FUEL OIL ROTTERDAM CALENDAR SWAP (NYM-UV - CME) vs LIGHT, SWEET CRUDE OIL FUTURES (NYM-CL - CME)						
Spread Credit Rate	Decrease	+5:-33	80%	80%	65%	65%
EUROPEAN GASOIL BULLET SWAP (NYM-BG - CME) vs LIGHT, SWEET CRUDE OIL FUTURES (NYM-CL - CME)						
Spread Credit Rate	Increase	+2:-15	50%	50%	70%	70%
EUROPEAN SINGAPORE FUEL OIL 180CST CALENDAR SWAP (NYM-UA - CME) vs LIGHT, SWEET CRUDE OIL FUTURES (NYM-CL - CME)						
Spread Credit Rate	Decrease	+5:-33	75%	75%	60%	60%
GULF COAST GASOLINE (ARGUS) CALENDAR SWAP (NYM-AW - CME) vs LIGHT, SWEET CRUDE OIL FUTURES (NYM-CL - CME)						
Spread Credit Rate	Increase	+1:-1	65%	65%	70%	70%
GULF COAST JET (ARGUS) CALENDAR SWAP (NYM-AF - CME) vs LIGHT, SWEET CRUDE OIL FUTURES (NYM-CL - CME)						
Spread Credit Rate	Increase	+1:-1	65%	65%	70%	70%
LIGHT, SWEET CRUDE OIL FUTURES (NYM-CL - CME) vs CHICAGO ETHANOL (PLATTS) SWAP (NYM-CU - CME)						
Spread Credit Rate	Increase	+1:-1	50%	50%	60%	60%
LIGHT, SWEET CRUDE OIL FUTURES (NYM-CL - CME) vs CONWAY PROPANE (OPIS) SWAP (NYM-W1 - CME)						
Spread Credit Rate	New	+1:-1			65%	65%
LIGHT, SWEET CRUDE OIL FUTURES (NYM-CL - CME) vs EUROPEAN 1% FUEL OIL CALENDAR SWAP (NORTHWEST EURO (NYM-UF - CME)						
Spread Credit Rate	Decrease	+33:-5	80%	80%	65%	65%
LIGHT, SWEET CRUDE OIL FUTURES (NYM-CL - CME) vs GULF COAST HEATING OIL (ARGUS) SWAP (NYM-4U - CME)						
Spread Credit Rate	New	+1:-1			70%	70%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
LIGHT, SWEET CRUDE OIL FUTURES (NYM-CL - CME) vs GULF COAST ULTRA LOW SULFUR DIESEL ((USLD) PLATTS) CALENDAR SWAP (NYM-LY - CME)						
Spread Credit Rate	New	+1:-1			70%	70%
LIGHT, SWEET CRUDE OIL FUTURES (NYM-CL - CME) vs GULF COAST ULTRA LOW SULFUR DIESEL (ULSD) (ARGUS) CALENDAR SWAP (NYM-AJ - CME)						
Spread Credit Rate	New	+1:-1			70%	70%
LIGHT, SWEET CRUDE OIL FUTURES (NYM-CL - CME) vs MONT BELVIEU ETHANE (OPIS) SWAP (NYM-W8 - CME)						
Spread Credit Rate	New	+1:-1			65%	65%
LIGHT, SWEET CRUDE OIL FUTURES (NYM-CL - CME) vs MONT BELVIEU ISOBUTANE (OPIS) SWAP (NYM-Y2 - CME)						
Spread Credit Rate	Increase	+1:-1	50%	50%	65%	65%
LIGHT, SWEET CRUDE OIL FUTURES (NYM-CL - CME) vs NEW YORK 0.3% FUEL OIL HIPR (PLATTS) SWAP (NYM-8N - CME)						
Spread Credit Rate	New	+1:-1			70%	70%
LIGHT, SWEET CRUDE OIL FUTURES (NYM-CL - CME) vs NEW YORK 0.7% FUEL OIL (PLATTS) SWAP (NYM-Y4 - CME)						
Spread Credit Rate	New	+1:-1			70%	70%
LIGHT, SWEET CRUDE OIL FUTURES (NYM-CL - CME) vs NEW YORK 2.2% FUEL OIL (PLATTS) SWAP (NYM-Y3 - CME)						
Spread Credit Rate	New	+1:-1			70%	70%
LIGHT, SWEET CRUDE OIL FUTURES (NYM-CL - CME) vs NEW YORK 3.0% FUEL OIL (PLATTS) SWAP (NYM-H1 - CME)						
Spread Credit Rate	New	+1:-1			65%	65%
LIGHT, SWEET CRUDE OIL FUTURES (NYM-CL - CME) vs NEW YORK ETHANOL (PLATTS) SWAP (NYM-EZ - CME)						
Spread Credit Rate	Increase	+1:-1	50%	50%	60%	60%
LIGHT, SWEET CRUDE OIL FUTURES (NYM-CL - CME) vs NEW YORK HARBOR 0.3% FUEL OIL SWAP (NYM-VQ - CME)						
Spread Credit Rate	New	+1:-1			70%	70%
LIGHT, SWEET CRUDE OIL FUTURES (NYM-CL - CME) vs NEW YORK HARBOR ETHANOL (NYM-QE - CME)						
Spread Credit Rate	Increase	+1:-1	50%	50%	60%	60%
LIGHT, SWEET CRUDE OIL FUTURES (NYM-CL - CME) vs NEW YORK HARBOR RESIDUAL FUEL 1.0% SULFUR (PLATTS) SWAP (NYM-MM - CME)						
Spread Credit Rate	New	+1:-1			70%	70%
LIGHT, SWEET CRUDE OIL FUTURES (NYM-CL - CME) vs NEW YORK HEATING OIL (PLATTS) SWAP (NYM-YF - CME)						
Spread Credit Rate	New	+1:-1			70%	70%
LIGHT, SWEET CRUDE OIL FUTURES (NYM-CL - CME) vs NEW YORK JET FUEL (ARGUS) SWAP (NYM-4Y - CME)						
Spread Credit Rate	New	+1:-1			70%	70%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
LIGHT, SWEET CRUDE OIL FUTURES (NYM-CL - CME) vs NEW YORK JET FUEL (PLATTS) SWAP (NYM-1Q - CME)						
Spread Credit Rate	New	+1:-1			70%	70%
LIGHT, SWEET CRUDE OIL FUTURES (NYM-CL - CME) vs NEW YORK ULTRA LOW SULFUR DIESEL (ULSD) (ARGUS) SWAP (NYM-5Y - CME)						
Spread Credit Rate	New	+1:-1			70%	70%
LIGHT, SWEET CRUDE OIL FUTURES (NYM-CL - CME) vs NEW YORK ULTRA LOW SULFUR DIESEL (USLD) CALENDAR SWAP (NYM-YS - CME)						
Spread Credit Rate	New	+1:-1			70%	70%
LIGHT, SWEET CRUDE OIL FUTURES (NYM-CL - CME) vs SINGAPORE 380CST FUEL OIL (PLATTS) SWAP (NYM-SE - CME)						
Spread Credit Rate	New	+19:-3			60%	60%
LIGHT, SWEET CRUDE OIL FUTURES (NYM-CL - CME) vs SINGAPORE GASOIL SWAP (NYM-SG - CME)						
Spread Credit Rate	New	+1:-1			60%	60%
MONT BELVIEU NATURAL GASOLINE (OPIS) SWAP (NYM-W3 - CME) vs LIGHT, SWEET CRUDE OIL FUTURES (NYM-CL - CME)						
Spread Credit Rate	Decrease	+1:-1	90%	90%	65%	65%
NY HARBOR RBOB GASOLINE (NYM-RB - CME) vs LIGHT, SWEET CRUDE OIL FUTURES (NYM-CL - CME)						
Spread Credit Rate	Decrease	+1:-1	85%	85%	80%	80%
NYMEX RBOB MINUTE MARKER DAILY SWAP (NYM-6R - CME) vs LIGHT, SWEET CRUDE OIL FUTURES (NYM-CL - CME)						
Spread Credit Rate	Increase	+1:-1	75%	75%	80%	80%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
NYMEX POWER PRODUCTS - Inter-commodity Spread Rates						
ANR OK BASIS SWAP (PLATTS IFERC) (NYM-NE - CME) vs HENRY HUB NATURAL GAS (NYM-NG - CME) vs PJM FINANCIALLY SETTLED MONTHLY FUTUR						
Spread Credit Rate	Decrease	+16:+4:-5	60%	60%	45%	45%
ANR OK BASIS SWAP (PLATTS IFERC) (NYM-NE - CME) vs HENRY HUB NATURAL GAS (NYM-NG - CME) vs PJM FINANCIALLY SETTLED MONTHLY FUTURES - PEAK (NYM-JM - CME)						
Spread Credit Rate	Decrease	+16:+4:-5	60%	60%	45%	45%
ANR OKLAHOMA NATURAL GAS BASIS SWAP (PLATTS IFERC) (NYM-NE - CME) vs HENRY HUB NATURAL GAS (NYM-NG - CME) vs NYISO ZONE A PEAK MONTHLY SWAP (NYM-KA - CME)						
Spread Credit Rate	New	+4:+1:-2			45%	45%
CIN HUB 5MW DAY AHEAD PEAK (NYM-H5 - CME) vs PJM AEP DAYTON HUB PEAK CALENDAR-MONTH DAY-AHEAD L (NYM-D7 - CME)						
Spread Credit Rate	Increase	+1:-1	45%	45%	60%	60%
CIN HUB 5MW DAY AHEAD PEAK (NYM-H5 - CME) vs PJM WESTERN HUB PEAK CALENDAR-MONTH DAY-AHEAD LMP (NYM-J4 - CME)						
Spread Credit Rate	Increase	+1:-1	55%	55%	60%	60%
CIN HUB 5MW REAL TIME PEAK (NYM-H3 - CME) vs CIN HUB 5MW DAY AHEAD PEAK (NYM-H5 - CME)						
Spread Credit Rate	Increase	+1:-1	50%	50%	60%	60%
CIN HUB 5MW REAL TIME PEAK (NYM-H3 - CME) vs PJM AD HUB 5MW REAL TIME PEAK (NYM-Z9 - CME)						
Spread Credit Rate	Increase	+1:-1	45%	45%	60%	60%
CIN HUB 5MW REAL TIME PEAK (NYM-H3 - CME) vs PJM WESTERN HUB PEAK CALENDAR-MONTH REAL-TIME LMP (NYM-L1 - CME)						
Spread Credit Rate	Increase	+1:-1	55%	55%	60%	60%
CINERGY HUB OFF-PEAK LMP SWAP (NYM-EJ - CME) vs AEP-DAYTON HUB MONTHLY ELECTRICITY FUTURES - PEAK (NYM-VM - CME)						
Spread Credit Rate	Increase	+1:-1	30%	30%	60%	60%
CINERGY HUB OFF-PEAK LMP SWAP (NYM-EJ - CME) vs PJM FINANCIALLY SETTLED MONTHLY FUTURES - PEAK (NYM-JM - CME)						
Spread Credit Rate	Increase	+1:-1	25%	25%	60%	60%
CINERGY HUB PEAK (NYM-EM - CME) vs AEP-DAYTON HUB MONTHLY ELECTRICITY FUTURES - PEAK (NYM-VM - CME)						
Spread Credit Rate	Increase	+1:-1	45%	45%	60%	60%
CINERGY HUB PEAK (NYM-EM - CME) vs PJM FINANCIALLY SETTLED MONTHLY FUTURES - PEAK (NYM-JM - CME)						
Spread Credit Rate	Increase	+1:-1	55%	55%	60%	60%
COLUMBIA GAS TRANSMISSION CORP. APPALACHIA (TCO) B (NYM-TC - CME) vs HENRY HUB NATURAL GAS (NYM-NG - CME) vs PJM FINANCIALLY SET						
Spread Credit Rate	Decrease	+16:+4:-5	60%	60%	45%	45%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
COLUMBIA GAS TRANSMISSION CORP. APPALACHIA (TCO) B (NYM-TC - CME) vs HENRY HUB NATURAL GAS (NYM-NG - CME) vs PJM FINANCIALLY SETTLED MONTHLY FUTURES - PEAK (NYM-JM - CME)						
Spread Credit Rate	Decrease	+16:+4:-5	60%	60%	45%	45%
DOMINION APPALACHIA NATURAL GAS BASIS SWAP (PLATTS IFERC) (NYM-PG - CME) vs HENRY HUB NATURAL GAS (NYM-NG - CME) vs NYISO ZONE A PEAK MONTHLY SWAP (NYM-KA - CME)						
Spread Credit Rate	New	+4:+1:-2			45%	45%
DOW JONES MID-COLUMBIA (NYM-DO - CME) vs HENRY HUB NATURAL GAS (NYM-NG - CME)						
Spread Credit Rate	Decrease	+1:-1	70%	70%	45%	45%
DOW JONES PALOS VERDE (NYM-DP - CME) vs DOW JONES MID-COLUMBIA (NYM-DO - CME)						
Spread Credit Rate	Decrease	+1:-1	70%	70%	60%	60%
ERCOT HOUSTON ZONE MCPE 50 MW OFF-PEAK SWAP (NYM-2W - CME) vs ERCOT NORTH ZONE MCPE 50 MW OFF-PEAK SWAP (NYM-2X - CME)						
Spread Credit Rate	New	+1:-1			50%	50%
ERCOT HOUSTON ZONE MCPE 50 MW PEAK SWAP (NYM-2N - CME) vs ERCOT NORTH ZONE MCPE 50 MW PEAK SWAP (NYM-2P - CME)						
Spread Credit Rate	New	+1:-1			50%	50%
HENRY HUB NATURAL GAS (NYM-NG - CME) vs TCO APPALACHIA NATURAL GAS BASIS SWAP (PLATTS IFERC) (NYM-TC - CME) vs NYISO ZONE A PEAK MONTHLY SWAP (NYM-KA - CME)						
Spread Credit Rate	New	+1:+4:-2			45%	45%
HOUSTON SHIP CHANNEL BASIS SWAP (PLATTS IFERC) (NYM-NH - CME) vs HENRY HUB NATURAL GAS (NYM-NG - CME) vs PJM FINANCIALLY SETTLED						
Spread Credit Rate	Decrease	+16:+4:-5	60%	60%	45%	45%
HOUSTON SHIP CHANNEL BASIS SWAP (PLATTS IFERC) (NYM-NH - CME) vs HENRY HUB NATURAL GAS (NYM-NG - CME) vs PJM FINANCIALLY SETTLED MONTHLY FUTURES - PEAK (NYM-JM - CME)						
Spread Credit Rate	Decrease	+16:+4:-5	60%	60%	45%	45%
HOUSTON SHIP CHANNEL NATURAL GAS BASIS SWAP (PLATTS IFERC) (NYM-NH - CME) vs HENRY HUB NATURAL GAS (NYM-NG - CME) vs NYISO ZONE A PEAK MONTHLY SWAP (NYM-KA - CME)						
Spread Credit Rate	New	+4:+1:-2			45%	45%
ISO NEW ENGLAND INTERNAL HUB PEAK LOCATION MARGINAL PRICING [LMP] SWAP (NYM-NI - CME) vs NEPOOL INTERNAL HUB 5 MW PEAK CALENDAR-MONTH DAY AHEAD SWAP (NYM-U6 - CME)						
Spread Credit Rate	New	+1:-12			60%	60%
ISO NEW ENGLAND INTERNAL HUB PEAK LOCATION MARGINAL PRICING [LMP] SWAP (NYM-NI - CME) vs NYISO ZONE A PEAK MONTHLY SWAP (NYM-KA - CME)						
Spread Credit Rate	New	+1:-1			65%	65%
ISO NEW ENGLAND OFF-PEAK LMP MONTHLY SWAP (NYM-KI - CME) vs NEPOOL INTERNAL HUB 5 MW OFF-PEAK CALENDAR-MONTH DAY -AHEAD SWAP (NYM-H2 - CME)						
Spread Credit Rate	New	+1:-200			70%	70%
ISO NEW ENGLAND OFF-PEAK LMP MONTHLY SWAP (NYM-KI - CME) vs NYISO ZONE G OFF-PEAK MONTHLY SWAP (NYM-KH - CME)						
Spread Credit Rate	New	+1:-1			60%	60%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
MICHCON NATURAL GAS BASIS SWAP (PLATTS IFERC) (NYM-NF - CME) vs HENRY HUB NATURAL GAS (NYM-NG - CME) vs NYISO ZONE A PEAK MONTHLY SWAP (NYM-KA - CME)						
Spread Credit Rate	New	+4:+1:-2			45%	45%
MICHIGAN CONSOLIDATED GAS CO. (MICHCON) BASIS SWAP (NYM-NF - CME) vs HENRY HUB NATURAL GAS (NYM-NG - CME) vs PJM FINANCIALLY SET						
Spread Credit Rate	Decrease	+16:+4:-5	60%	60%	45%	45%
MICHIGAN CONSOLIDATED GAS CO. (MICHCON) BASIS SWAP (NYM-NF - CME) vs HENRY HUB NATURAL GAS (NYM-NG - CME) vs PJM FINANCIALLY SETTLED MONTHLY FUTURES - PEAK (NYM-JM - CME)						
Spread Credit Rate	Decrease	+16:+4:-5	60%	60%	45%	45%
NATURAL GAS PIPELINE (NGPL) MIDCONTINENT BASIS SWAP (PLATTS IFERC) (NYM-NL - CME) vs HENRY HUB NATURAL GAS (NYM-NG - CME) vs NYISO ZONE A PEAK MONTHLY SWAP (NYM-KA - CME)						
Spread Credit Rate	New	+4:+1:-2			45%	45%
NATURAL GAS PIPELINE CO. OF AMERICA (NGPL) LOUISIA (NYM-NY - CME) vs HENRY HUB NATURAL GAS (NYM-NG - CME) vs PJM FINANCIALLY SETTLED MONTHLY FUTURES - PEAK (NYM-JM - CME)						
Spread Credit Rate	Decrease	+16:+4:-5	60%	60%	45%	45%
NATURAL GAS PIPELINE CO. OF AMERICA (NGPL) MID-CON (NYM-NL - CME) vs HENRY HUB NATURAL GAS (NYM-NG - CME) vs PJM FINANCIALLY SET						
Spread Credit Rate	Decrease	+16:+4:-5	60%	60%	45%	45%
NATURAL GAS PIPELINE CO. OF AMERICA (NGPL) MID-CON (NYM-NL - CME) vs HENRY HUB NATURAL GAS (NYM-NG - CME) vs PJM FINANCIALLY SETTLED MONTHLY FUTURES - PEAK (NYM-JM - CME)						
Spread Credit Rate	Decrease	+16:+4:-5	60%	60%	45%	45%
NATURAL GAS PIPELINE CO. OF AMERICA (NGPL) TEXOK B (NYM-PD - CME) vs HENRY HUB NATURAL GAS (NYM-NG - CME) vs PJM FINANCIALLY SET						
Spread Credit Rate	Decrease	+16:+4:-5	60%	60%	45%	45%
NATURAL GAS PIPELINE CO. OF AMERICA (NGPL) TEXOK B (NYM-PD - CME) vs HENRY HUB NATURAL GAS (NYM-NG - CME) vs PJM FINANCIALLY SETTLED MONTHLY FUTURES - PEAK (NYM-JM - CME)						
Spread Credit Rate	Decrease	+16:+4:-5	60%	60%	45%	45%
NATURAL GAS PIPELINE TEXAS/OKLAHOMA NATURAL GAS BASIS SWAP (PLATTS IFERC) (NYM-PD - CME) vs HENRY HUB NATURAL GAS (NYM-NG - CME) vs NYISO ZONE A PEAK MONTHLY SWAP (NYM-KA - CME)						
Spread Credit Rate	New	+4:-1:+2			45%	45%
NEEPOOL INTER HUB 5MW DAY AHEAD OFF PEAK (NYM-H2 - CME) vs NEPOOL CONN 5MW DAY AHEAD OFF PEAK (NYM-P3 - CME)						
Spread Credit Rate	Increase	+1:-1	35%	35%	60%	60%
NEEPOOL INTER HUB 5MW DAY AHEAD OFF PEAK (NYM-H2 - CME) vs NEPOOL MAINE 5MW DAY AHEAD OFF PEAK (NYM-W2 - CME)						
Spread Credit Rate	Increase	+1:-1	35%	35%	60%	60%
NEEPOOL INTER HUB 5MW DAY AHEAD OFF PEAK (NYM-H2 - CME) vs NEPOOL NE MASS 5 MW DAY AHEAD OFF PEAK (NYM-P8 - CME)						
Spread Credit Rate	Increase	+1:-1	35%	35%	60%	60%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
NEEPOOL INTER HUB 5MW DAY AHEAD OFF PEAK (NYM-H2 - CME) vs NEPOOL SE MASS 5 MW DAY AHEAD OFF PEAK (NYM-P5 - CME)						
Spread Credit Rate	Increase	+1:-1	35%	35%	60%	60%
NEEPOOL INTER HUB 5MW DAY AHEAD OFF PEAK (NYM-H2 - CME) vs NEPOOL W CENTRAL MASS 5 MW DAY AHEAD OFF PEAK (NYM-L9 - CME)						
Spread Credit Rate	Increase	+1:-1	35%	35%	60%	60%
NEEPOOL INTER HUB 5MW DAY AHEAD OFF PEAK (NYM-H2 - CME) vs NYISO ZONE A 5MW DAY AHEAD OFF PEAK (NYM-K4 - CME)						
Spread Credit Rate	Increase	+1:-1	40%	40%	60%	60%
NEPOOL INTERNAL HUB 5 MW PEAK CALENDAR-MONTH DAY AHEAD SWAP (NYM-U6 - CME) vs NEPOOL CONNECTICUT 5 MW PEAK CALENDAR-MONTH DAY-AHEAD LMP SWAP (NYM-P2 - CME)						
Spread Credit Rate	New	+1:-1			80%	80%
NEPOOL INTERNAL HUB 5 MW PEAK CALENDAR-MONTH DAY AHEAD SWAP (NYM-U6 - CME) vs NEPOOL MAINE 5 MW PEAK CALENDAR-MONTH DAY-AHEAD LMP SWAP (NYM-P9 - CME)						
Spread Credit Rate	New	+1:-1			60%	60%
NEPOOL INTERNAL HUB 5 MW PEAK CALENDAR-MONTH DAY AHEAD SWAP (NYM-U6 - CME) vs NEPOOL NE MASS 5 PEAK MW DAY AHEAD CALENDAR-MONTH DAY-AHEAD SWAP (NYM-P7 - CME)						
Spread Credit Rate	New	+1:-1			80%	80%
NEPOOL INTERNAL HUB 5 MW PEAK CALENDAR-MONTH DAY AHEAD SWAP (NYM-U6 - CME) vs NEPOOL SE MASS 5 MW PEAK CALENDAR-MONTH DAY-AHEAD LMP SWAP (NYM-P4 - CME)						
Spread Credit Rate	New	+1:-1			80%	80%
NEPOOL INTERNAL HUB 5 MW PEAK CALENDAR-MONTH DAY AHEAD SWAP (NYM-U6 - CME) vs NEPOOL W CENTRAL MASS 5 MW PEAK CALENDAR-MONTH DAY-AHEAD SWAP (NYM-R6 - CME)						
Spread Credit Rate	New	+1:-1			80%	80%
NORTHERN ILLINOIS HUB MONTHLY ELECTRICITY FUTURES (NYM-UM - CME) vs PJM FINANCIALLY SETTLED MONTHLY FUTURES - PEAK (NYM-JM - CME)						
Spread Credit Rate	Increase	+1:-1	50%	50%	60%	60%
NORTHERN ILLINOIS HUB PEAK MONTHLY SWAP (NYM-UM - CME) vs AEP DAYTON HUB PEAK MONTHLY (NYM-VM - CME)						
Spread Credit Rate	New	+1:-1			50%	50%
NORTHERN NATURAL GAS DEMARCATION BASIS SWAP (NYM-PE - CME) vs HENRY HUB NATURAL GAS (NYM-NG - CME) vs NYISO ZONE A PEAK MONTHLY SWAP (NYM-KA - CME)						
Spread Credit Rate	New	+4:+1:-2			45%	45%
NORTHERN NATURAL GAS DEMARCATION BASIS SWAP (PLATT (NYM-PE - CME) vs HENRY HUB NATURAL GAS (NYM-NG - CME) vs PJM FINANCIALLY SET						
Spread Credit Rate	Decrease	+16:+4:-5	60%	60%	45%	45%
NORTHERN NATURAL GAS DEMARCATION BASIS SWAP (PLATT (NYM-PE - CME) vs HENRY HUB NATURAL GAS (NYM-NG - CME) vs PJM FINANCIALLY SETTLED MONTHLY FUTURES - PEAK (NYM-JM - CME)						
Spread Credit Rate	Decrease	+16:+4:-5	60%	60%	45%	45%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
NORTHERN NATURAL GAS VENTURA, IOWA BASIS SWAP (PLATTS IFERC) (NYM-PF - CME) vs HENRY HUB NATURAL GAS (NYM-NG - CME) vs NYISO ZONE A PEAK MONTHLY SWAP (NYM-KA - CME)						
Spread Credit Rate	New	+4:+1:-2			45%	45%
NYISO ZONE A 5 MW OFF-PEAK CALENDAR-MONTH DAY-AHEAD LBMP SWAP (NYM-K4 - CME) vs NYISO ZONE C 5 MW OFF-PEAK CALENDAR-MONTH DAY-AHEAD LBMP SWAP (NYM-A3 - CME)						
Spread Credit Rate	New	+1:-1			60%	60%
NYISO ZONE A OFF-PEAK MONTHLY (NYM-KB - CME) vs ISO NEW ENGLAND OFF-PEAK LMP MONTHLY SWAP (NYM-KI - CME)						
Spread Credit Rate	New	+1:-1			70%	70%
NYISO ZONE A OFF-PEAK MONTHLY (NYM-KB - CME) vs NYISO ZONE G OFF-PEAK MONTHLY SWAP (NYM-KH - CME)						
Spread Credit Rate	New	+1:-1			40%	40%
NYISO ZONE A OFF-PEAK MONTHLY (NYM-KB - CME) vs NYISO ZONE J OFF-PEAK MONTHLY SWAP (NYM-KK - CME)						
Spread Credit Rate	New	+1:-1			70%	70%
NYISO ZONE A PEAK MONTHLY SWAP (NYM-KA - CME) vs NYISO ZONE G PEAK MONTHLY SWAP (NYM-KG - CME)						
Spread Credit Rate	New	+1:-1			70%	70%
NYISO ZONE A PEAK MONTHLY SWAP (NYM-KA - CME) vs NYISO ZONE J PEAK MONTHLY SWAP (NYM-KJ - CME)						
Spread Credit Rate	New	+1:-1			70%	70%
NYISO ZONE G 5MW DAY AHEAD OFF PEAK (NYM-D2 - CME) vs NEEPOOL INTER HUB 5MW DAY AHEAD OFF PEAK (NYM-H2 - CME)						
Spread Credit Rate	Increase	+1:-1	40%	40%	60%	60%
NYISO ZONE G PEAK MONTHLY SWAP (NYM-KG - CME) vs HENRY HUB NATURAL GAS (NYM-NG - CME)						
Spread Credit Rate	New	+2:-1			45%	45%
NYISO ZONE J 5MW DAY AHEAD OFF PEAK (NYM-D4 - CME) vs NEEPOOL INTER HUB 5MW DAY AHEAD OFF PEAK (NYM-H2 - CME)						
Spread Credit Rate	Increase	+1:-1	40%	40%	60%	60%
NYISO ZONE J OFF-PEAK MONTHLY SWAP (NYM-KK - CME) vs ISO NEW ENGLAND OFF-PEAK LMP MONTHLY SWAP (NYM-KI - CME)						
Spread Credit Rate	New	+1:-1			70%	70%
NYISO ZONE J PEAK MONTHLY SWAP (NYM-KJ - CME) vs HENRY HUB NATURAL GAS (NYM-NG - CME)						
Spread Credit Rate	New	+2:-1			45%	45%
NYISO ZONE J PEAK MONTHLY SWAP (NYM-KJ - CME) vs NYISO ZONE G PEAK MONTHLY SWAP (NYM-KG - CME)						
Spread Credit Rate	New	+1:-1			70%	70%
PJM AD HUB 5 MW PEAK REAL-TIME LMP SWAP (NYM-Z9 - CME) vs PJM WESTERN HUB PEAK CALENDAR-MONTH REAL-TIME LMP SWAP (NYM-L1 - CME)						
Spread Credit Rate	New	+1:-1			70%	70%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
PJM EASTERN HUB PEAK CALENDAR-MONTH DAY-AHEAD LMP (NYM-E9 - CME) vs PJM JCPL ZONE PEAK CALENDAR-MONTH DAY-AHEAD LMP (NYM-J2 - CME)						
Spread Credit Rate	Increase	+1:-1	50%	50%	70%	70%
PJM EASTERN HUB PEAK CALENDAR-MONTH DAY-AHEAD LMP (NYM-E9 - CME) vs PJM PSEG ZONE PEAK CALENDAR-MONTH DAY-AHEAD LMP (NYM-L6 - CME)						
Spread Credit Rate	Increase	+1:-1	50%	50%	70%	70%
PJM FINANCIALLY SETTLED MONTHLY ELECTRICITY FUTURE (NYM-JP - CME) vs AEP-DAYTON HUB MONTHLY ELECTRICITY FUTURES - OFF-P (NYM-VP - CME)						
Spread Credit Rate	New	+1:-1			70%	70%
PJM FINANCIALLY SETTLED MONTHLY ELECTRICITY FUTURE (NYM-JP - CME) vs ISO NEW ENGLAND INTERNAL HUB LOCATION MARGINAL PRI (NYM-KI - CME)						
Spread Credit Rate	Decrease	+1:-1	75%	75%	70%	70%
PJM FINANCIALLY SETTLED MONTHLY ELECTRICITY FUTURE (NYM-JP - CME) vs NYISO ZONE A LBMP SWAP - OFF-PEAK (NYM-KB - CME)						
Spread Credit Rate	Decrease	+1:-1	75%	75%	70%	70%
PJM FINANCIALLY SETTLED MONTHLY ELECTRICITY FUTURE (NYM-JP - CME) vs NYISO ZONE G LBMP SWAP - OFF-PEAK (NYM-KH - CME)						
Spread Credit Rate	Decrease	+1:-1	80%	80%	70%	70%
PJM FINANCIALLY SETTLED MONTHLY ELECTRICITY FUTURE (NYM-JP - CME) vs NYISO ZONE J LBMP SWAP - OFF-PEAK (NYM-KK - CME)						
Spread Credit Rate	Decrease	+1:-1	75%	75%	70%	70%
PJM FINANCIALLY SETTLED MONTHLY FUTURES - PEAK (NYM-JM - CME) vs HENRY HUB NATURAL GAS (NYM-NG - CME)						
Spread Credit Rate	Decrease	+5:-4	60%	60%	45%	45%
PJM FINANCIALLY SETTLED MONTHLY FUTURES - PEAK (NYM-JM - CME) vs ISO NEW ENGLAND INTERNAL HUB LOCATION MARGINAL PRI (NYM-NI - CME)						
Spread Credit Rate	Decrease	+1:-1	90%	90%	60%	60%
PJM FINANCIALLY SETTLED MONTHLY FUTURES - PEAK (NYM-JM - CME) vs NYISO ZONE A LBMP SWAP - PEAK (NYM-KA - CME)						
Spread Credit Rate	Decrease	+1:-2	80%	80%	60%	60%
PJM FINANCIALLY SETTLED MONTHLY FUTURES - PEAK (NYM-JM - CME) vs NYISO ZONE G LBMP SWAP - PEAK (NYM-KG - CME)						
Spread Credit Rate	Decrease	+1:-2	85%	85%	60%	60%
PJM FINANCIALLY SETTLED MONTHLY FUTURES - PEAK (NYM-JM - CME) vs NYISO ZONE J LBMP SWAP - PEAK (NYM-KJ - CME)						
Spread Credit Rate	Decrease	+1:-2	80%	80%	60%	60%
PJM JCPL ZONE OFF-PEAK CALENDAR-MONTH DAY-AHEAD LM (NYM-F2 - CME) vs PJM EASTERN HUB OFF-PEAK CALENDAR-MONTH DAY-AHEAD (NYM-F4 - CME)						
Spread Credit Rate	Increase	+1:-1	35%	35%	60%	60%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
PJM JCPL ZONE OFF-PEAK CALENDAR-MONTH DAY-AHEAD LM (NYM-F2 - CME) vs PJM PSEG ZONE OFF- PEAK CALENDAR-MONTH DAY-AHEAD L (NYM-W6 - CME)						
Spread Credit Rate	Increase	+1:-1	35%	35%	60%	60%
PJM NI HUB 5MW REAL TIME PEAK (NYM-B3 - CME) vs PJM AD HUB 5MW REAL TIME PEAK (NYM-Z9 - CME)						
Spread Credit Rate	Decrease	+1:-1	75%	75%	60%	60%
PJM OFF-PEAK LMP SWAP (NYM-JP - CME) vs AEP-DAYTON HUB OFF-PEAK MONTHLY SWAP (NYM-VP - CME)						
Spread Credit Rate	New	+1:-1			70%	70%
PJM OFF-PEAK LMP SWAP (NYM-JP - CME) vs HENRY HUB NATURAL GAS (NYM-NG - CME)						
Spread Credit Rate	New	+1:-1			50%	50%
PJM OFF-PEAK LMP SWAP (NYM-JP - CME) vs ISO NEW ENGLAND OFF-PEAK LMP MONTHLY SWAP (NYM-KI - CME)						
Spread Credit Rate	New	+1:-1			70%	70%
PJM OFF-PEAK LMP SWAP (NYM-JP - CME) vs NORTHERN ILLINOIS OFF-PEAK MONTHLY SWAP (NYM-UO - CME)						
Spread Credit Rate	New	+1:-1			70%	70%
PJM OFF-PEAK LMP SWAP (NYM-JP - CME) vs NYISO ZONE A OFF-PEAK MONTHLY (NYM-KB - CME)						
Spread Credit Rate	New	+1:-1			70%	70%
PJM OFF-PEAK LMP SWAP (NYM-JP - CME) vs NYISO ZONE G OFF-PEAK MONTHLY SWAP (NYM-KH - CME)						
Spread Credit Rate	New	+1:-1			70%	70%
PJM OFF-PEAK LMP SWAP (NYM-JP - CME) vs NYISO ZONE J OFF-PEAK MONTHLY SWAP (NYM-KK - CME)						
Spread Credit Rate	New	+1:-1			70%	70%
PJM PSEG ZONE OFF- PEAK CALENDAR-MONTH DAY-AHEAD L (NYM-W6 - CME) vs PJM EASTERN HUB OFF-PEAK CALENDAR-MONTH DAY-AHEAD (NYM-F4 - CME)						
Spread Credit Rate	Increase	+1:-1	35%	35%	60%	60%
PJM PSEG ZONE PEAK CALENDAR-MONTH DAY-AHEAD LMP (NYM-L6 - CME) vs PJM JCPL ZONE PEAK CALENDAR-MONTH DAY-AHEAD LMP (NYM-J2 - CME)						
Spread Credit Rate	Increase	+1:-1	50%	50%	60%	60%
PJM WESTERN HUB OFF-PEAK CALENDAR-MONTH DAY-AHEAD (NYM-E4 - CME) vs PJM AECO ZONE OFF-PEAK CALENDAR-MONTH DAY-AHEAD LM (NYM-X1 - CME)						
Spread Credit Rate	Increase	+1:-1	35%	35%	60%	60%
PJM WESTERN HUB OFF-PEAK CALENDAR-MONTH DAY-AHEAD (NYM-E4 - CME) vs PJM AEP DAYTON HUB OFF-PEAK CALENDAR-MONTH DAY-AHE (NYM-R7 - CME)						
Spread Credit Rate	Increase	+1:-1	35%	35%	60%	60%
PJM WESTERN HUB OFF-PEAK CALENDAR-MONTH DAY-AHEAD (NYM-E4 - CME) vs PJM BGE ZONE OFF-PEAK CALENDAR-MONTH DAY-AHEAD LMP (NYM-R3 - CME)						
Spread Credit Rate	Increase	+1:-1	35%	35%	60%	60%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
PJM WESTERN HUB OFF-PEAK CALENDAR-MONTH DAY-AHEAD (NYM-E4 - CME) vs PJM COM-ED 5MW DAY AHEAD OFF PEAK (NYM-D9 - CME)						
Spread Credit Rate	Increase	+1:-1	35%	35%	60%	60%
PJM WESTERN HUB OFF-PEAK CALENDAR-MONTH DAY-AHEAD (NYM-E4 - CME) vs PJM DPL ZONE OFF-PEAK CALENDAR-MONTH DAY-AHEAD LMP (NYM-E8 - CME)						
Spread Credit Rate	Increase	+1:-1	35%	35%	60%	60%
PJM WESTERN HUB OFF-PEAK CALENDAR-MONTH DAY-AHEAD (NYM-E4 - CME) vs PJM EASTERN HUB OFF-PEAK CALENDAR-MONTH DAY-AHEAD (NYM-F4 - CME)						
Spread Credit Rate	Increase	+1:-1	35%	35%	60%	60%
PJM WESTERN HUB OFF-PEAK CALENDAR-MONTH DAY-AHEAD (NYM-E4 - CME) vs PJM JCPL ZONE OFF-PEAK CALENDAR-MONTH DAY-AHEAD LM (NYM-F2 - CME)						
Spread Credit Rate	Increase	+1:-1	35%	35%	60%	60%
PJM WESTERN HUB OFF-PEAK CALENDAR-MONTH DAY-AHEAD (NYM-E4 - CME) vs PJM NORTHERN ILLINOIS OFF-PEAK CALENDAR-MONTH DAY- (NYM-L3 - CME)						
Spread Credit Rate	Increase	+1:-1	35%	35%	60%	60%
PJM WESTERN HUB OFF-PEAK CALENDAR-MONTH DAY-AHEAD (NYM-E4 - CME) vs PJM PEPCO ZONE OFF-PEAK CALENDAR-MONTH DAY-AHEAD L (NYM-Q8 - CME)						
Spread Credit Rate	Increase	+1:-1	35%	35%	60%	60%
PJM WESTERN HUB OFF-PEAK CALENDAR-MONTH DAY-AHEAD (NYM-E4 - CME) vs PJM PPL ZONE OFF-PEAK CALENDAR-MONTH DAY-AHEAD LMP (NYM-F5 - CME)						
Spread Credit Rate	Increase	+1:-1	35%	35%	60%	60%
PJM WESTERN HUB OFF-PEAK CALENDAR-MONTH DAY-AHEAD (NYM-E4 - CME) vs PJM PSEG ZONE OFF- PEAK CALENDAR-MONTH DAY-AHEAD L (NYM-W6 - CME)						
Spread Credit Rate	Increase	+1:-1	35%	35%	60%	60%
PJM WESTERN HUB OFF-PEAK CALENDAR-MONTH DAY-AHEAD (NYM-E4 - CME) vs PJM WESTERN HUB OFF-PEAK CALENDAR-MONTH REAL-TIME (NYM-N9 - CME)						
Spread Credit Rate	Increase	+1:-1	50%	50%	60%	60%
PJM WESTERN HUB PEAK CALENDAR-MONTH DAY-AHEAD LMP (NYM-J4 - CME) vs PJM WESTERN HUB PEAK CALENDAR-MONTH REAL-TIME LMP (NYM-L1 -						
Spread Credit Rate	Increase	+1:-1	50%	50%	70%	70%
PJM WESTERN HUB PEAK CALENDAR-MONTH DAY-AHEAD LMP (NYM-J4 - CME) vs PJM WESTERN HUB PEAK CALENDAR-MONTH REAL-TIME LMP (NYM-L1 - CME)						
Spread Credit Rate	Increase	+1:-1	50%	50%	70%	70%
SUMAS BASIS SWAP (PLATTS IFERC) (NYM-NK - CME) vs HENRY HUB NATURAL GAS (NYM-NG - CME) vs PJM FINANCIALLY SETTLED MONTHLY FUTURE						
Spread Credit Rate	Decrease	+16:+4:-5	60%	60%	45%	45%
SUMAS BASIS SWAP (PLATTS IFERC) (NYM-NK - CME) vs HENRY HUB NATURAL GAS (NYM-NG - CME) vs PJM FINANCIALLY SETTLED MONTHLY FUTURES - PEAK (NYM-JM - CME)						
Spread Credit Rate	Decrease	+16:+4:-5	60%	60%	45%	45%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
SUMAS NATURAL GAS BASIS SWAP (PLATTS IFERC) (NYM-NK - CME) vs HENRY HUB NATURAL GAS (NYM-NG - CME) vs NYISO ZONE A PEAK MONTHLY SWAP (NYM-KA - CME)						
Spread Credit Rate	New	+4:+1:-2			45%	45%
SUMAS NATURAL GAS BASIS SWAP (PLATTS IFERC) (NYM-NK - CME) vs HENRY HUB NATURAL GAS (NYM-NG - CME) vs NYISO ZONE J PEAK MONTHLY SWAP (NYM-KJ - CME)						
Spread Credit Rate	New	+4:+1:-2			45%	45%
TEXAS EASTERN ZONE M-3 BASIS SWAP (PLATTS IFERC) (NYM-NX - CME) vs HENRY HUB NATURAL GAS (NYM-NG - CME) vs PJM FINANCIALLY SETTL						
Spread Credit Rate	Decrease	+16:+4:-5	60%	60%	45%	45%
TEXAS EASTERN ZONE M-3 BASIS SWAP (PLATTS IFERC) (NYM-NX - CME) vs HENRY HUB NATURAL GAS (NYM-NG - CME) vs PJM FINANCIALLY SETTLED MONTHLY FUTURES - PEAK (NYM-JM - CME)						
Spread Credit Rate	Decrease	+16:+4:-5	60%	60%	45%	45%
TEXAS EASTERN ZONE M-3 NATURAL GAS BASIS SWAP (PLATTS IFERC) (NYM-NX - CME) vs HENRY HUB NATURAL GAS (NYM-NG - CME) vs NYISO ZONE A PEAK MONTHLY SWAP (NYM-KA - CME)						
Spread Credit Rate	New	+4:+1:-2			45%	45%
TRANSCO ZONE 6 BASIS SWAP (PLATTS IFERC) (NYM-NZ - CME) vs HENRY HUB NATURAL GAS (NYM-NG - CME) vs PJM FINANCIALLY SETTLED MONTH						
Spread Credit Rate	Decrease	+16:+4:-5	60%	60%	45%	45%
TRANSCO ZONE 6 BASIS SWAP (PLATTS IFERC) (NYM-NZ - CME) vs HENRY HUB NATURAL GAS (NYM-NG - CME) vs PJM FINANCIALLY SETTLED MONTHLY FUTURES - PEAK (NYM-JM - CME)						
Spread Credit Rate	Decrease	+16:+4:-5	60%	60%	45%	45%
VENTURA BASIS SWAP (PLATTS IFERC) (NYM-PF - CME) vs HENRY HUB NATURAL GAS (NYM-NG - CME) vs PJM FINANCIALLY SETTLED MONTHLY FUTU						
Spread Credit Rate	Decrease	+16:+4:-5	60%	60%	45%	45%
VENTURA BASIS SWAP (PLATTS IFERC) (NYM-PF - CME) vs HENRY HUB NATURAL GAS (NYM-NG - CME) vs PJM FINANCIALLY SETTLED MONTHLY FUTURES - PEAK (NYM-JM - CME)						
Spread Credit Rate	Decrease	+16:+4:-5	60%	60%	45%	45%
WAHA, TEXAS NATURAL GAS BASIS SWAP (PLATTS IFERC) (NYM-NW - CME) vs HENRY HUB NATURAL GAS (NYM-NG - CME) vs NYISO ZONE A PEAK MONTHLY SWAP (NYM-KA - CME)						
Spread Credit Rate	New	+8:-2:-1			45%	45%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Current Initial	Current Maintenance	New Initial	New Maintenance
Volatility Scan (volScan) Rate					

NYMEX CRUDE PRODUCTS - Volatility Scan (volScan) Rate

BRENT (ICE) CALENDAR SWAP (NYM-CY) - volScan

Clearing Member Rate	Decrease	0.09	0.07	0.08	0.06
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BRENT CRUDE OIL BULLET SWAP FINANCIAL (NYM-BB) - volScan

Clearing Member Rate	Increase	0.06	0.05	0.07	0.06
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BRENT LAST DAY CONTRACT (NYM-BZ) - volScan

Clearing Member Rate	Decrease	0.08	0.07	0.07	0.06
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LIGHT, SWEET CRUDE OIL FUTURES (NYM-CL) - volScan

Clearing Member Rate	Decrease	0.08	0.06	0.06	0.045
Clearing Member Rate	Decrease	0.08	0.06	0.06	0.045
Clearing Member Rate	Decrease	0.08	0.06	0.06	0.045
Clearing Member Rate	Decrease	0.08	0.06	0.06	0.045
Clearing Member Rate	Decrease	0.08	0.06	0.06	0.045

NYMEX NATURAL GAS PRODUCTS - Volatility Scan (volScan) Rate

HENRY HUB FULL PENULTIMATE (NYM-HP) - volScan

Clearing Member Rate	Increase	0.09	0.07	0.11	0.08
Clearing Member Rate	Increase	0.09	0.07	0.11	0.08
Clearing Member Rate	Increase	0.09	0.07	0.11	0.08
Clearing Member Rate	Decrease	0.09	0.07	0.07	0.05
Clearing Member Rate	Decrease	0.09	0.07	0.07	0.05
Clearing Member Rate	Decrease	0.09	0.07	0.07	0.05
Clearing Member Rate	Decrease	0.09	0.07	0.07	0.05
Clearing Member Rate	Decrease	0.09	0.07	0.07	0.05
Clearing Member Rate	Decrease	0.09	0.07	0.07	0.05

HENRY HUB NATURAL GAS (NYM-NG) - volScan

Clearing Member Rate	Decrease	0.11	0.08	0.07	0.05
Clearing Member Rate	Decrease	0.11	0.08	0.07	0.05
Clearing Member Rate	Decrease	0.11	0.08	0.07	0.05
Clearing Member Rate	Decrease	0.11	0.08	0.07	0.05
Clearing Member Rate	Decrease	0.11	0.08	0.07	0.05
Clearing Member Rate	Decrease	0.11	0.08	0.07	0.05

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Current Initial	Current Maintenance	New Initial	New Maintenance
Volatility Scan (volScan) Rate					
NYMEX PETROLEUM PRODUCTS - Volatility Scan (volScan) Rate					
MONT BELVIEU ETHANE (OPIS) SWAP (NYM-W8) - volScan					
Clearing Member Rate	Increase	0.03	0.03	0.04	0.04
MONT BELVIEU NATURAL GASOLINE (OPIS) SWAP (NYM-W3) - volScan					
Clearing Member Rate	Increase	0.03	0.03	0.04	0.04
MONT BELVIEU NORMAL BUTANE (OPIS) SWAP (NYM-Z2) - volScan					
Clearing Member Rate	Increase	0.03	0.03	0.04	0.04
MONT BELVIEU PROPANE (OPIS) SWAP (NYM-PT) - volScan					
Clearing Member Rate	Increase	0.03	0.03	0.04	0.04

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Current Initial	Current Maintenance	New Initial	New Maintenance
Volatility Scan (volScan) Rate					
NYMEX POWER PRODUCTS - Volatility Scan (volScan) Rate					
AEP DAYTON HUB PEAK MONTHLY (NYM-VM) - volScan					
Clearing Member Rate	Increase	0.04	0.04	0.07	0.06
Clearing Member Rate	Increase	0.04	0.04	0.07	0.06
Clearing Member Rate	Increase	0.04	0.04	0.07	0.06
Clearing Member Rate	Increase	0.04	0.04	0.07	0.06
CINERGY HUB PEAK CALENDAR-MONTH LMP SWAP (NYM-EM) - volScan					
Clearing Member Rate	Increase	0.04	0.04	0.07	0.06
Clearing Member Rate	Increase	0.04	0.04	0.07	0.06
Clearing Member Rate	Increase	0.04	0.04	0.07	0.06
Clearing Member Rate	Increase	0.04	0.04	0.07	0.06
ISO NEW ENGLAND INTERNAL HUB PEAK LOCATION MARGINAL PRICING [LMP] SWAP (NYM-NI) - volScan					
Clearing Member Rate	Increase	0.04	0.04	0.07	0.06
Clearing Member Rate	Increase	0.04	0.04	0.07	0.06
Clearing Member Rate	Increase	0.04	0.04	0.07	0.06
Clearing Member Rate	Increase	0.04	0.04	0.07	0.06
NORTHERN ILLINOIS HUB PEAK MONTHLY SWAP (NYM-UM) - volScan					
Clearing Member Rate	Increase	0.04	0.04	0.07	0.06
Clearing Member Rate	Increase	0.04	0.04	0.07	0.06
Clearing Member Rate	Increase	0.04	0.04	0.07	0.06
Clearing Member Rate	Increase	0.04	0.04	0.07	0.06
NYISO ZONE A 5 MW PEAK CALENDAR-MONTH DAY-AHEAD LBMP SWAP (NYM-K3) - volScan					
Clearing Member Rate	Increase	0.03	0.03	0.07	0.06
Clearing Member Rate	Increase	0.03	0.03	0.07	0.06
Clearing Member Rate	Increase	0.03	0.03	0.07	0.06
Clearing Member Rate	Increase	0.03	0.03	0.07	0.06
NYISO ZONE G PEAK MONTHLY SWAP (NYM-KG) - volScan					
Clearing Member Rate	Increase	0.04	0.04	0.07	0.06
Clearing Member Rate	Increase	0.04	0.04	0.07	0.06
Clearing Member Rate	Increase	0.04	0.04	0.07	0.06
Clearing Member Rate	Increase	0.04	0.04	0.07	0.06
NYISO ZONE J 5 MW PEAK CALENDAR-MONTH DAY-AHEAD LBMP SWAP (NYM-D3) - volScan					
Clearing Member Rate	Increase	0.03	0.03	0.07	0.06
Clearing Member Rate	Increase	0.03	0.03	0.07	0.06
Clearing Member Rate	Increase	0.03	0.03	0.07	0.06
Clearing Member Rate	Increase	0.03	0.03	0.07	0.06
PJM PEAK CALENDAR-MONTH LMP SWAP (NYM-JM) - volScan					
Clearing Member Rate	Increase	0.04	0.04	0.07	0.06
Clearing Member Rate	Increase	0.04	0.04	0.07	0.06
Clearing Member Rate	Increase	0.04	0.04	0.07	0.06
Clearing Member Rate	Increase	0.04	0.04	0.07	0.06

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Current Initial	Current Maintenance	New Initial	New Maintenance
Volatility Scan (volScan) Rate					
Clearing Member Rate	Increase	0.04	0.04	0.07	0.06
Clearing Member Rate	Increase	0.04	0.04	0.07	0.06