



14-062

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

FROM: CME Clearing

SUBJECT: Performance Bond Requirements

DATE: Thursday, February 06, 2014

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

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

and subscribe to the Performance Bond Rates Advisory Notice listserver.

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

The rates will be effective after the close of business on

Friday, February 07, 2014.

Current rates as of:

Thursday, February 06, 2014.

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								
ELECTRICITY - Outright Rates								
MISO INDIANA HUB 5MW REAL TIME PK (H3)								
H3	Spec	Mnth 12+	Increase	USD	385	350	413	375
H3	Hedge/Member	Mnth 12+	Increase	USD	350	350	375	375
NYISO A OFF-PEAK (KB)								
KB	Spec	Mnths 3-11	Increase	USD	2,090	1,900	2,750	2,500
KB	Hedge/Member	Mnths 3-11	Increase	USD	1,900	1,900	2,500	2,500
PJM AD HUB 5MW REAL TIME PK (Z9)								
Z9	Spec	Mnth 2	Increase	USD	1,650	1,500	3,025	2,750
Z9	Hedge/Member	Mnth 2	Increase	USD	1,500	1,500	2,750	2,750
PJM NI HUB 5MW REAL TIME PK (B3)								
B3	Spec	Mnth 2	Increase	USD	1,980	1,800	2,475	2,250
B3	Hedge/Member	Mnth 2	Increase	USD	1,800	1,800	2,250	2,250
PJM NILL DA PEAK (N3)								
N3	Spec	Mnths 3-11	Increase	USD	275	250	303	275
N3	Hedge/Member	Mnths 3-11	Increase	USD	250	250	275	275
PJM WES HUB PEAK CAL MON REAL TIME (L1)								
L1	Spec	Mnth 2	Increase	USD	2,750	2,500	5,445	4,950
L1	Hedge/Member	Mnth 2	Increase	USD	2,500	2,500	4,950	4,950
PJM WES HUB PEAK LMP 50 MW (4S)								
4S	Spec	Mnth 2	Increase	USD	27,500	25,000	54,450	49,500
4S	Hedge/Member	Mnth 2	Increase	USD	25,000	25,000	49,500	49,500

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
Outright Rates								
FX - Outright Rates								
AD/CD FUTURES (AC)								
AC	Spec		Increase	CAD	3,300	3,000	4,125	3,750
AC	Hedge/Member		Increase	CAD	3,000	3,000	3,750	3,750
AUSTRALIAN DOLLAR FUTURES (AD)								
AD	Spec		Increase	USD	1,815	1,650	2,035	1,850
AD	Hedge/Member		Increase	USD	1,650	1,650	1,850	1,850
EC/AD CROSS RATE FUTURES (CA)								
CA	Spec		Increase	AUD	3,025	2,750	4,510	4,100
CA	Hedge/Member		Increase	AUD	2,750	2,750	4,100	4,100
E-MICRO AUD/USD FUTURES (M6A)								
M6A	Spec		Increase	USD	182	165	204	185
M6A	Hedge/Member		Increase	USD	165	165	185	185
HUNGARIAN FORINT/ EURO FX FUTURES (R)								
R	Spec		Increase	EUR	1,788	1,625	1,980	1,800
R	Hedge/Member		Increase	EUR	1,625	1,625	1,800	1,800
METALS - Outright Rates								
ALUMINUM MW TRANS PREM PLATTS SWAPS (AUP)								
AUP	Spec		Increase	USD	990	900	1,210	1,100
AUP	Hedge/Member		Increase	USD	900	900	1,100	1,100

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
Outright Rates								
NATURAL GAS - Outright Rates								
COLUMBIA GULF MAIN NAT G INDEX FUT (L2)								
L2	Spec	Mnth 1-2	Increase	USD	770	700	1,210	1,100
L2	Hedge/Member	Mnth 1-2	Increase	USD	700	700	1,100	1,100
DOMINION BASIS FUT (PLATTS IFERC) (PG)								
PG	Spec	Mnth 1	Increase	USD	792	720	935	850
PG	Hedge/Member	Mnth 1	Increase	USD	720	720	850	850
NATURAL GAS PIPELINE TEXOK BASIS FUT (PD)								
PD	Spec	Mnth 1	Increase	USD	110	100	165	150
PD	Hedge/Member	Mnth 1	Increase	USD	100	100	150	150
PD	Spec	Mnths 2	Increase	USD	72	65	88	80
PD	Hedge/Member	Mnths 2	Increase	USD	65	65	80	80
NORTHERN ROCKIES PIPE FUT (XR)								
XR	Spec		Increase	USD	1,320	1,200	1,540	1,400
XR	Hedge/Member		Increase	USD	1,200	1,200	1,400	1,400
SOCAL PIPE FUT (XN)								
XN	Spec	Mnth 1	Increase	USD	1,210	1,100	1,430	1,300
XN	Hedge/Member	Mnth 1	Increase	USD	1,100	1,100	1,300	1,300
TEXAS EASTERN ZONE M-3 BASIS FUT (NX)								
NX	Spec	Apr 2015+	Increase	USD	550	500	770	700
NX	Hedge/Member	Apr 2015+	Increase	USD	500	500	700	700

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

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

PETROLEUM CRACKS AND SPREADS - Outright Rates

ARGS GSOLNE E-BOB OXY BARGES NWE CK (EOB)

EOB	Spec	Mnth 2-6	Increase	USD	18,326	16,660	22,908	20,825
EOB	Hedge/Member	Mnth 2-6	Increase	USD	16,660	16,660	20,825	20,825
EOB	Spec	Mnths 7+	Increase	USD	17,410	15,827	21,991	19,992
EOB	Hedge/Member	Mnths 7+	Increase	USD	15,827	15,827	19,992	19,992

GAS EURO-BOB OXY (ARG) CRACK (7K)

7K	Spec	Mnth 2-6	Increase	USD	2,200	2,000	2,750	2,500
7K	Hedge/Member	Mnth 2-6	Increase	USD	2,000	2,000	2,500	2,500
7K	Spec	Mnths 7+	Increase	USD	2,090	1,900	2,640	2,400
7K	Hedge/Member	Mnths 7+	Increase	USD	1,900	1,900	2,400	2,400

GLFCST JET PLATTS UP/DN FUT (ME)

ME	Spec	Mnths 6+	Increase	USD	715	650	1,100	1,000
ME	Hedge/Member	Mnths 6+	Increase	USD	650	650	1,000	1,000

MINI RBOB V. EBOB(ARGUS) NWE BRGS (MXB)

MXB	Spec		Increase	USD	1,100	1,000	1,650	1,500
MXB	Hedge/Member		Increase	USD	1,000	1,000	1,500	1,500

RBOB GAS VS EURO BOB OXY NWE BARGES (XER)

XER	Spec		Increase	USD	1,320	1,200	1,980	1,800
XER	Hedge/Member		Increase	USD	1,200	1,200	1,800	1,800

RBOB GAS VS EUROBOB(ARGUS) NWE BRGS (EXR)

EXR	Spec		Increase	USD	11,000	10,000	16,500	15,000
EXR	Hedge/Member		Increase	USD	10,000	10,000	15,000	15,000

WEATHER - Outright Rates

SALT LAKE CITY MONTHLY HDD FUTURES (HA)

HA	Spec		Increase	USD	8%	6%	11%	8%
HA	Hedge/Member		Increase	USD	6%	6%	8%	8%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

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

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
Intra Spreads								
INTEREST RATES - Intra Spreads								
10 Year Deliverable Swap Future (N1U) - All Months (10 YEAR USD INTEREST RATE SWAP)								
N1U	Spec		Increase	USD	165	150	275	250
N1U	Hedge/Member		Increase	USD	150	150	250	250
10 Year Treasury Note (21) - All Months (10Y TREASURY NOTE FUTURES)								
21	Spec		Increase	USD	275	250	385	350
21	Hedge/Member		Increase	USD	250	250	350	350
2 Year Deliverable Swap Future (T1U) - All Months (2 YEAR USD INT RATE SWAP FUTURES)								
T1U	Spec		Increase	USD	110	100	165	150
T1U	Hedge/Member		Increase	USD	100	100	150	150
2 Year Treasury Note (26) - All Months (2 YEAR TREASURY NOTE FUTURES)								
26	Spec		Increase	USD	110	100	138	125
26	Hedge/Member		Increase	USD	100	100	125	125
30 Year Deliverable Swap Future (B1U) - All Months (30 YEAR USD INTEREST RATE SWAP)								
B1U	Spec		Increase	USD	220	200	330	300
B1U	Hedge/Member		Increase	USD	200	200	300	300
5 Year Deliverable Swap Future (F1U) - All Months (5 YEAR USD INTEREST RATE SWAP)								
F1U	Spec		Increase	USD	165	150	220	200
F1U	Hedge/Member		Increase	USD	150	150	200	200
5 Year Treasury Note (25) - All Months (5 YR TREASURY NOTE FUTURES)								
25	Spec		Increase	USD	110	100	165	150
25	Hedge/Member		Increase	USD	100	100	150	150
Eurodollar (ED) - 1 Year Butterfly [Mo. 04] (EURODOLLAR FUTURES)								
ED	Spec		Increase	USD	220	200	259	235
ED	Hedge/Member		Increase	USD	200	200	235	235
Eurodollar (ED) - 1 Year Butterfly [Mo. 05] (EURODOLLAR FUTURES)								
ED	Spec		Increase	USD	220	200	248	225
ED	Hedge/Member		Increase	USD	200	200	225	225
Eurodollar (ED) - 1 Year Butterfly [Mo. 06] (EURODOLLAR FUTURES)								
ED	Spec		Increase	USD	220	200	248	225
ED	Hedge/Member		Increase	USD	200	200	225	225
Eurodollar (ED) - 1 Year Butterfly [Mo. 07] (EURODOLLAR FUTURES)								
ED	Spec		Increase	USD	220	200	248	225
ED	Hedge/Member		Increase	USD	200	200	225	225

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
Intra Spreads								
Eurodollar (ED) - 1 Year Butterfly [Mo. 08] (EURODOLLAR FUTURES)								
ED	Spec		Increase	USD	220	200	248	225
ED	Hedge/Member		Increase	USD	200	200	225	225
Eurodollar (ED) - 1 Year Condor [Mo. 03] (EURODOLLAR FUTURES)								
ED	Spec		Increase	USD	275	250	352	320
ED	Hedge/Member		Increase	USD	250	250	320	320
Eurodollar (ED) - 1 Year Condor [Mo. 04] (EURODOLLAR FUTURES)								
ED	Spec		Increase	USD	275	250	352	320
ED	Hedge/Member		Increase	USD	250	250	320	320
Eurodollar (ED) - 1 Year Condor [Mo. 05] (EURODOLLAR FUTURES)								
ED	Spec		Increase	USD	330	300	347	315
ED	Hedge/Member		Increase	USD	300	300	315	315
Eurodollar (ED) - 1 Year Condor [Mo. 06] (EURODOLLAR FUTURES)								
ED	Spec		Increase	USD	330	300	347	315
ED	Hedge/Member		Increase	USD	300	300	315	315
Eurodollar (ED) - 1 Year Condor [Mo. 07] (EURODOLLAR FUTURES)								
ED	Spec		Decrease	USD	385	350	347	315
ED	Hedge/Member		Decrease	USD	350	350	315	315
Eurodollar (ED) - 1 Year Condor [Mo. 08] (EURODOLLAR FUTURES)								
ED	Spec		Decrease	USD	385	350	347	315
ED	Hedge/Member		Decrease	USD	350	350	315	315
Eurodollar (ED) - 1 Year Condor [Mo. 09] (EURODOLLAR FUTURES)								
ED	Spec		Decrease	USD	275	250	215	195
ED	Hedge/Member		Decrease	USD	250	250	195	195
Eurodollar (ED) - 1 Year Condor [Mo. 10] (EURODOLLAR FUTURES)								
ED	Spec		Decrease	USD	248	225	160	145
ED	Hedge/Member		Decrease	USD	225	225	145	145
Eurodollar (ED) - 1 Year Condor [Mo. 11] (EURODOLLAR FUTURES)								
ED	Spec		Decrease	USD	220	200	132	120
ED	Hedge/Member		Decrease	USD	200	200	120	120
Eurodollar (ED) - 1 Year Condor [Mo. 12] (EURODOLLAR FUTURES)								
ED	Spec		Decrease	USD	220	200	132	120
ED	Hedge/Member		Decrease	USD	200	200	120	120

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
Intra Spreads								
Eurodollar (ED) - 1 Year Condor [Mo. 20] (EURODOLLAR FUTURES)								
ED	Spec		Increase	USD	138	125	165	150
ED	Hedge/Member		Increase	USD	125	125	150	150
Eurodollar (ED) - 3 Month Condor [Mo. 07] (EURODOLLAR FUTURES)								
ED	Spec		Increase	USD	110	100	143	130
ED	Hedge/Member		Increase	USD	100	100	130	130
Eurodollar (ED) - 3 Month Condor [Mo. 08] (EURODOLLAR FUTURES)								
ED	Spec		Increase	USD	110	100	143	130
ED	Hedge/Member		Increase	USD	100	100	130	130
Eurodollar (ED) - 3 Month Double Butterfly [Mo.17] (EURODOLLAR FUTURES)								
ED	Spec		Increase	USD	55	50	83	75
ED	Hedge/Member		Increase	USD	50	50	75	75
Eurodollar (ED) - 3 Month Double Butterfly [Mo.18] (EURODOLLAR FUTURES)								
ED	Spec		Increase	USD	55	50	83	75
ED	Hedge/Member		Increase	USD	50	50	75	75
Eurodollar (ED) - 3 Month Double Butterfly [Mo.19] (EURODOLLAR FUTURES)								
ED	Spec		Increase	USD	55	50	83	75
ED	Hedge/Member		Increase	USD	50	50	75	75
Eurodollar (ED) - 3 Month Double Butterfly [Mo.20] (EURODOLLAR FUTURES)								
ED	Spec		Increase	USD	55	50	83	75
ED	Hedge/Member		Increase	USD	50	50	75	75
Eurodollar (ED) - 6 Month Butterfly [Mo. 06] (EURODOLLAR FUTURES)								
ED	Spec		Increase	USD	11	10	33	30
ED	Hedge/Member		Increase	USD	10	10	30	30
Eurodollar (ED) - 6 Month Butterfly [Mo. 07] (EURODOLLAR FUTURES)								
ED	Spec		Increase	USD	110	100	160	145
ED	Hedge/Member		Increase	USD	100	100	145	145
Eurodollar (ED) - 6 Month Butterfly [Mo. 08] (EURODOLLAR FUTURES)								
ED	Spec		Increase	USD	110	100	160	145
ED	Hedge/Member		Increase	USD	100	100	145	145
Eurodollar (ED) - 6 Month Condor [Mo. 06] (EURODOLLAR FUTURES)								
ED	Spec		Increase	USD	220	200	231	210
ED	Hedge/Member		Increase	USD	200	200	210	210

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
Intra Spreads								
Eurodollar (ED) - 6 Month Condor [Mo. 07] (EURODOLLAR FUTURES)								
ED	Spec		Decrease	USD	110	100	105	95
ED	Hedge/Member		Decrease	USD	100	100	95	95
Eurodollar (ED) - 6 Month Condor [Mo. 08] (EURODOLLAR FUTURES)								
ED	Spec		Decrease	USD	248	225	215	195
ED	Hedge/Member		Decrease	USD	225	225	195	195
Eurodollar (ED) - 6 Month Condor [Mo. 09] (EURODOLLAR FUTURES)								
ED	Spec		Decrease	USD	220	200	143	130
ED	Hedge/Member		Decrease	USD	200	200	130	130
Eurodollar (ED) - 6 Month Condor [Mo. 10] (EURODOLLAR FUTURES)								
ED	Spec		Decrease	USD	220	200	193	175
ED	Hedge/Member		Decrease	USD	200	200	175	175
Eurodollar (ED) - 6 Month Condor [Mo. 11] (EURODOLLAR FUTURES)								
ED	Spec		Decrease	USD	110	100	50	45
ED	Hedge/Member		Decrease	USD	100	100	45	45
Eurodollar (ED) - 6 Month Condor [Mo. 12] (EURODOLLAR FUTURES)								
ED	Spec		Decrease	USD	110	100	50	45
ED	Hedge/Member		Decrease	USD	100	100	45	45
Eurodollar (ED) - Consecutive Spread [Mo. 03-04] (EURODOLLAR FUTURES)								
ED	Spec		Decrease	USD	110	100	11	10
ED	Hedge/Member		Decrease	USD	100	100	10	10
Eurodollar (ED) - Consecutive Spread [Mo. 04-05] (EURODOLLAR FUTURES)								
ED	Spec		Increase	USD	28	25	83	75
ED	Hedge/Member		Increase	USD	25	25	75	75
Eurodollar (ED) - Tier 5 vs. Tier 8 [mth 17-20 vs. mth 29-32] (EURODOLLAR FUTURES)								
ED	Spec		Increase	USD	220	200	275	250
ED	Hedge/Member		Increase	USD	200	200	250	250
Fed Funds (CBOT) (41) - Consecutive Mos. 1-2 (30 DAY FED FUND FUTURES)								
41	Spec		Increase	USD	55	50	143	130
41	Hedge/Member		Increase	USD	50	50	130	130
Fed Funds (CBOT) (41) - Tier 2 vs. Tier 4 [mth 2-4 vs. mth 13-24] (30 DAY FED FUND FUTURES)								
41	Spec		Increase	USD	110	100	165	150
41	Hedge/Member		Increase	USD	100	100	150	150

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

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

Fed Funds (CBOT) (41) - Tier 3 vs. Tier 3 [mth 5-12 vs. mth 5-12] (30 DAY FED FUND FUTURES)

41	Spec		Increase	USD	83	75	110	100
41	Hedge/Member		Increase	USD	75	75	100	100

Fed Funds (CBOT) (41) - Tier 3 vs. Tier 4 [mth 5-12 vs. mth 13-24] (30 DAY FED FUND FUTURES)

41	Spec		Increase	USD	165	150	220	200
41	Hedge/Member		Increase	USD	150	150	200	200

Fed Funds (CBOT) (41) - Tier 4 vs. Tier 4 [mth 13-24 vs. mth 13-24] (30 DAY FED FUND FUTURES)

41	Spec		Increase	USD	275	250	330	300
41	Hedge/Member		Increase	USD	250	250	300	300

U.S. Treasury Bond (17) - All Months (30 YR U.S. TREASURY BOND FUTURES)

17	Spec		Increase	USD	385	350	440	400
17	Hedge/Member		Increase	USD	350	350	400	400

Ultra Long Bond (UBE) - All Months (LONG TERM U.S. TREASURY BOND FUTURE)

UBE	Spec		Increase	USD	385	350	495	450
UBE	Hedge/Member		Increase	USD	350	350	450	450

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
Intra Spreads								
NATURAL GAS - Intra Spreads								
Algonquin City-gates Natural Gas Basis Swap - All Months (ALGONQUIN CITYGATES BASIS)								
B4	Spec		Increase	USD	1,100	1,000	2,200	2,000
B4	Hedge/Member		Increase	USD	1,000	1,000	2,000	2,000
ANR OK Basis Swap (Platts IFERC) - All Months (ANR OKLAHOMA)								
NE	Spec		Increase	USD	110	100	220	200
NE	Hedge/Member		Increase	USD	100	100	200	200
CIG Rocky Mountain Basis Swap (Platts IFERC) - All Months (CIG BASIS)								
CI	Spec		Increase	USD	165	150	275	250
CI	Hedge/Member		Increase	USD	150	150	250	250
Columbia Gas Transmission Corp. Appalachia (TCO) B - All Months (TCO BASIS FUT)								
TC	Spec		Increase	USD	165	150	220	200
TC	Hedge/Member		Increase	USD	150	150	200	200
Dominion Basis Swap - All Months (DOMINION BASIS FUT (PLATTS IFERC))								
PG	Spec		Increase	USD	220	200	440	400
PG	Hedge/Member		Increase	USD	200	200	400	400
Florida Gas Zone 3 Basis Swap - All Months (FLORIDA GAS ZONE3 BASIS FUT)								
FP	Spec		Increase	USD	193	175	226	205
FP	Hedge/Member		Increase	USD	175	175	205	205
Henry Hub Natural Gas (HH, NG, NN, HP) - 1 Month Butterfly Month 10-12 (HENRY HUB FUT TRADE AT SETTLEMENT)								
NNT	Spec		Increase	USD	69	63	96	88
NNT	Hedge/Member		Increase	USD	63	63	88	88
Henry Hub Natural Gas (HH, NG, NN, HP) - 1 Month Butterfly Month 10-12 (HENRY HUB FUT)								
NN	Spec		Increase	USD	69	63	96	88
NN	Hedge/Member		Increase	USD	63	63	88	88
Henry Hub Natural Gas (HH, NG, NN, HP) - 1 Month Butterfly Month 10-12 (HH TAS NYMEX NATURAL GAS FUTURES)								
HHT	Spec		Increase	USD	275	250	385	350
HHT	Hedge/Member		Increase	USD	250	250	350	350
Henry Hub Natural Gas (HH, NG, NN, HP) - 1 Month Butterfly Month 10-12 (NYMEX NATURAL GAS (H.HUB LTD) FUT)								
HH	Spec		Increase	USD	275	250	385	350
HH	Hedge/Member		Increase	USD	250	250	350	350
Henry Hub Natural Gas (HH, NG, NN, HP) - 1 Month Butterfly Month 11-13 (HENRY HUB FUT TRADE AT SETTLEMENT)								
NNT	Spec		Increase	USD	69	63	96	88
NNT	Hedge/Member		Increase	USD	63	63	88	88

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
Intra Spreads								
Henry Hub Natural Gas (HH, NG, NN, HP) - 1 Month Butterfly Month 11-13 (HENRY HUB FUT)								
NN	Spec		Increase	USD	69	63	96	88
NN	Hedge/Member		Increase	USD	63	63	88	88
Henry Hub Natural Gas (HH, NG, NN, HP) - 1 Month Butterfly Month 11-13 (HH TAS NYMEX NATURAL GAS FUTURES)								
HHT	Spec		Increase	USD	275	250	385	350
HHT	Hedge/Member		Increase	USD	250	250	350	350
Henry Hub Natural Gas (HH, NG, NN, HP) - 1 Month Butterfly Month 11-13 (NYMEX NATURAL GAS (H.HUB LTD) FUT)								
HH	Spec		Increase	USD	275	250	385	350
HH	Hedge/Member		Increase	USD	250	250	350	350
Henry Hub Natural Gas (HH, NG, NN, HP) - 1 Month Butterfly Month 12-14 (HENRY HUB FUT TRADE AT SETTLEMENT)								
NNT	Spec		Increase	USD	69	63	96	88
NNT	Hedge/Member		Increase	USD	63	63	88	88
Henry Hub Natural Gas (HH, NG, NN, HP) - 1 Month Butterfly Month 12-14 (HENRY HUB FUT)								
NN	Spec		Increase	USD	69	63	96	88
NN	Hedge/Member		Increase	USD	63	63	88	88
Henry Hub Natural Gas (HH, NG, NN, HP) - 1 Month Butterfly Month 12-14 (HH TAS NYMEX NATURAL GAS FUTURES)								
HHT	Spec		Increase	USD	275	250	385	350
HHT	Hedge/Member		Increase	USD	250	250	350	350
Henry Hub Natural Gas (HH, NG, NN, HP) - 1 Month Butterfly Month 12-14 (NYMEX NATURAL GAS (H.HUB LTD) FUT)								
HH	Spec		Increase	USD	275	250	385	350
HH	Hedge/Member		Increase	USD	250	250	350	350
Henry Hub Natural Gas (HH, NG, NN, HP) - 1 Month Butterfly Month 1-3 (HENRY HUB FUT TRADE AT SETTLEMENT)								
NNT	Spec		Increase	USD	69	63	578	525
NNT	Hedge/Member		Increase	USD	63	63	525	525
Henry Hub Natural Gas (HH, NG, NN, HP) - 1 Month Butterfly Month 1-3 (HENRY HUB FUT)								
NN	Spec		Increase	USD	69	63	578	525
NN	Hedge/Member		Increase	USD	63	63	525	525
Henry Hub Natural Gas (HH, NG, NN, HP) - 1 Month Butterfly Month 1-3 (HH TAS NYMEX NATURAL GAS FUTURES)								
HHT	Spec		Increase	USD	275	250	2,310	2,100
HHT	Hedge/Member		Increase	USD	250	250	2,100	2,100
Henry Hub Natural Gas (HH, NG, NN, HP) - 1 Month Butterfly Month 1-3 (NYMEX NATURAL GAS (H.HUB LTD) FUT)								
HH	Spec		Increase	USD	275	250	2,310	2,100
HH	Hedge/Member		Increase	USD	250	250	2,100	2,100

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
Intra Spreads								
Henry Hub Natural Gas (HH, NG, NN, HP) - 1 Month Butterfly Month 13-15 (HENRY HUB FUT TRADE AT SETTLEMENT)								
NNT	Spec		Increase	USD	69	63	96	88
NNT	Hedge/Member		Increase	USD	63	63	88	88
Henry Hub Natural Gas (HH, NG, NN, HP) - 1 Month Butterfly Month 13-15 (HENRY HUB FUT)								
NN	Spec		Increase	USD	69	63	96	88
NN	Hedge/Member		Increase	USD	63	63	88	88
Henry Hub Natural Gas (HH, NG, NN, HP) - 1 Month Butterfly Month 13-15 (HH TAS NYMEX NATURAL GAS FUTURES)								
HHT	Spec		Increase	USD	275	250	385	350
HHT	Hedge/Member		Increase	USD	250	250	350	350
Henry Hub Natural Gas (HH, NG, NN, HP) - 1 Month Butterfly Month 13-15 (NYMEX NATURAL GAS (H.HUB LTD) FUT)								
HH	Spec		Increase	USD	275	250	385	350
HH	Hedge/Member		Increase	USD	250	250	350	350
Henry Hub Natural Gas (HH, NG, NN, HP) - 1 Month Butterfly Month 14-16 (HENRY HUB FUT TRADE AT SETTLEMENT)								
NNT	Spec		Increase	USD	69	63	96	88
NNT	Hedge/Member		Increase	USD	63	63	88	88
Henry Hub Natural Gas (HH, NG, NN, HP) - 1 Month Butterfly Month 14-16 (HENRY HUB FUT)								
NN	Spec		Increase	USD	69	63	96	88
NN	Hedge/Member		Increase	USD	63	63	88	88
Henry Hub Natural Gas (HH, NG, NN, HP) - 1 Month Butterfly Month 14-16 (HH TAS NYMEX NATURAL GAS FUTURES)								
HHT	Spec		Increase	USD	275	250	385	350
HHT	Hedge/Member		Increase	USD	250	250	350	350
Henry Hub Natural Gas (HH, NG, NN, HP) - 1 Month Butterfly Month 14-16 (NYMEX NATURAL GAS (H.HUB LTD) FUT)								
HH	Spec		Increase	USD	275	250	385	350
HH	Hedge/Member		Increase	USD	250	250	350	350
Henry Hub Natural Gas (HH, NG, NN, HP) - 1 Month Butterfly Month 15-17 (HENRY HUB FUT TRADE AT SETTLEMENT)								
NNT	Spec		Increase	USD	69	63	96	88
NNT	Hedge/Member		Increase	USD	63	63	88	88
Henry Hub Natural Gas (HH, NG, NN, HP) - 1 Month Butterfly Month 15-17 (HENRY HUB FUT)								
NN	Spec		Increase	USD	69	63	96	88
NN	Hedge/Member		Increase	USD	63	63	88	88
Henry Hub Natural Gas (HH, NG, NN, HP) - 1 Month Butterfly Month 15-17 (HH TAS NYMEX NATURAL GAS FUTURES)								
HHT	Spec		Increase	USD	275	250	385	350
HHT	Hedge/Member		Increase	USD	250	250	350	350

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
Intra Spreads								
Henry Hub Natural Gas (HH, NG, NN, HP) - 1 Month Butterfly Month 15-17 (NYMEX NATURAL GAS (H.HUB LTD) FUT)								
HH	Spec		Increase	USD	275	250	385	350
HH	Hedge/Member		Increase	USD	250	250	350	350
Henry Hub Natural Gas (HH, NG, NN, HP) - 1 Month Butterfly Month 16-18 (HENRY HUB FUT TRADE AT SETTLEMENT)								
NNT	Spec		Increase	USD	69	63	96	88
NNT	Hedge/Member		Increase	USD	63	63	88	88
Henry Hub Natural Gas (HH, NG, NN, HP) - 1 Month Butterfly Month 16-18 (HENRY HUB FUT)								
NN	Spec		Increase	USD	69	63	96	88
NN	Hedge/Member		Increase	USD	63	63	88	88
Henry Hub Natural Gas (HH, NG, NN, HP) - 1 Month Butterfly Month 16-18 (HH TAS NYMEX NATURAL GAS FUTURES)								
HHT	Spec		Increase	USD	275	250	385	350
HHT	Hedge/Member		Increase	USD	250	250	350	350
Henry Hub Natural Gas (HH, NG, NN, HP) - 1 Month Butterfly Month 16-18 (NYMEX NATURAL GAS (H.HUB LTD) FUT)								
HH	Spec		Increase	USD	275	250	385	350
HH	Hedge/Member		Increase	USD	250	250	350	350
Henry Hub Natural Gas (HH, NG, NN, HP) - 1 Month Butterfly Month 17-19 (HENRY HUB FUT TRADE AT SETTLEMENT)								
NNT	Spec		Increase	USD	69	63	96	88
NNT	Hedge/Member		Increase	USD	63	63	88	88
Henry Hub Natural Gas (HH, NG, NN, HP) - 1 Month Butterfly Month 17-19 (HENRY HUB FUT)								
NN	Spec		Increase	USD	69	63	96	88
NN	Hedge/Member		Increase	USD	63	63	88	88
Henry Hub Natural Gas (HH, NG, NN, HP) - 1 Month Butterfly Month 17-19 (HH TAS NYMEX NATURAL GAS FUTURES)								
HHT	Spec		Increase	USD	275	250	385	350
HHT	Hedge/Member		Increase	USD	250	250	350	350
Henry Hub Natural Gas (HH, NG, NN, HP) - 1 Month Butterfly Month 17-19 (NYMEX NATURAL GAS (H.HUB LTD) FUT)								
HH	Spec		Increase	USD	275	250	385	350
HH	Hedge/Member		Increase	USD	250	250	350	350
Henry Hub Natural Gas (HH, NG, NN, HP) - 1 Month Butterfly Month 18-20 (HENRY HUB FUT TRADE AT SETTLEMENT)								
NNT	Spec		Increase	USD	69	63	96	88
NNT	Hedge/Member		Increase	USD	63	63	88	88
Henry Hub Natural Gas (HH, NG, NN, HP) - 1 Month Butterfly Month 18-20 (HENRY HUB FUT)								
NN	Spec		Increase	USD	69	63	96	88
NN	Hedge/Member		Increase	USD	63	63	88	88

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
Intra Spreads								
Henry Hub Natural Gas (HH, NG, NN, HP) - 1 Month Butterfly Month 18-20 (HH TAS NYMEX NATURAL GAS FUTURES)								
HHT	Spec		Increase	USD	275	250	385	350
HHT	Hedge/Member		Increase	USD	250	250	350	350
Henry Hub Natural Gas (HH, NG, NN, HP) - 1 Month Butterfly Month 18-20 (NYMEX NATURAL GAS (H.HUB LTD) FUT)								
HH	Spec		Increase	USD	275	250	385	350
HH	Hedge/Member		Increase	USD	250	250	350	350
Henry Hub Natural Gas (HH, NG, NN, HP) - 1 Month Butterfly Month 19-21 (HENRY HUB FUT TRADE AT SETTLEMENT)								
NNT	Spec		Increase	USD	69	63	96	88
NNT	Hedge/Member		Increase	USD	63	63	88	88
Henry Hub Natural Gas (HH, NG, NN, HP) - 1 Month Butterfly Month 19-21 (HENRY HUB FUT)								
NN	Spec		Increase	USD	69	63	96	88
NN	Hedge/Member		Increase	USD	63	63	88	88
Henry Hub Natural Gas (HH, NG, NN, HP) - 1 Month Butterfly Month 19-21 (HH TAS NYMEX NATURAL GAS FUTURES)								
HHT	Spec		Increase	USD	275	250	385	350
HHT	Hedge/Member		Increase	USD	250	250	350	350
Henry Hub Natural Gas (HH, NG, NN, HP) - 1 Month Butterfly Month 19-21 (NYMEX NATURAL GAS (H.HUB LTD) FUT)								
HH	Spec		Increase	USD	275	250	385	350
HH	Hedge/Member		Increase	USD	250	250	350	350
Henry Hub Natural Gas (HH, NG, NN, HP) - 1 Month Butterfly Month 20-22 (HENRY HUB FUT TRADE AT SETTLEMENT)								
NNT	Spec		Increase	USD	69	63	96	88
NNT	Hedge/Member		Increase	USD	63	63	88	88
Henry Hub Natural Gas (HH, NG, NN, HP) - 1 Month Butterfly Month 20-22 (HENRY HUB FUT)								
NN	Spec		Increase	USD	69	63	96	88
NN	Hedge/Member		Increase	USD	63	63	88	88
Henry Hub Natural Gas (HH, NG, NN, HP) - 1 Month Butterfly Month 20-22 (HH TAS NYMEX NATURAL GAS FUTURES)								
HHT	Spec		Increase	USD	275	250	385	350
HHT	Hedge/Member		Increase	USD	250	250	350	350
Henry Hub Natural Gas (HH, NG, NN, HP) - 1 Month Butterfly Month 20-22 (NYMEX NATURAL GAS (H.HUB LTD) FUT)								
HH	Spec		Increase	USD	275	250	385	350
HH	Hedge/Member		Increase	USD	250	250	350	350
Henry Hub Natural Gas (HH, NG, NN, HP) - 1 Month Butterfly Month 21-23 (HENRY HUB FUT TRADE AT SETTLEMENT)								
NNT	Spec		Increase	USD	69	63	96	88
NNT	Hedge/Member		Increase	USD	63	63	88	88

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
Intra Spreads								
Henry Hub Natural Gas (HH, NG, NN, HP) - 1 Month Butterfly Month 21-23 (HENRY HUB FUT)								
NN	Spec		Increase	USD	69	63	96	88
NN	Hedge/Member		Increase	USD	63	63	88	88
Henry Hub Natural Gas (HH, NG, NN, HP) - 1 Month Butterfly Month 21-23 (HH TAS NYMEX NATURAL GAS FUTURES)								
HHT	Spec		Increase	USD	275	250	385	350
HHT	Hedge/Member		Increase	USD	250	250	350	350
Henry Hub Natural Gas (HH, NG, NN, HP) - 1 Month Butterfly Month 21-23 (NYMEX NATURAL GAS (H.HUB LTD) FUT)								
HH	Spec		Increase	USD	275	250	385	350
HH	Hedge/Member		Increase	USD	250	250	350	350
Henry Hub Natural Gas (HH, NG, NN, HP) - 1 Month Butterfly Month 22-24 (HENRY HUB FUT TRADE AT SETTLEMENT)								
NNT	Spec		Increase	USD	69	63	96	88
NNT	Hedge/Member		Increase	USD	63	63	88	88
Henry Hub Natural Gas (HH, NG, NN, HP) - 1 Month Butterfly Month 22-24 (HENRY HUB FUT)								
NN	Spec		Increase	USD	69	63	96	88
NN	Hedge/Member		Increase	USD	63	63	88	88
Henry Hub Natural Gas (HH, NG, NN, HP) - 1 Month Butterfly Month 22-24 (HH TAS NYMEX NATURAL GAS FUTURES)								
HHT	Spec		Increase	USD	275	250	385	350
HHT	Hedge/Member		Increase	USD	250	250	350	350
Henry Hub Natural Gas (HH, NG, NN, HP) - 1 Month Butterfly Month 22-24 (NYMEX NATURAL GAS (H.HUB LTD) FUT)								
HH	Spec		Increase	USD	275	250	385	350
HH	Hedge/Member		Increase	USD	250	250	350	350
Henry Hub Natural Gas (HH, NG, NN, HP) - 1 Month Butterfly Month 23-25 (HENRY HUB FUT TRADE AT SETTLEMENT)								
NNT	Spec		Increase	USD	69	63	96	88
NNT	Hedge/Member		Increase	USD	63	63	88	88
Henry Hub Natural Gas (HH, NG, NN, HP) - 1 Month Butterfly Month 23-25 (HENRY HUB FUT)								
NN	Spec		Increase	USD	69	63	96	88
NN	Hedge/Member		Increase	USD	63	63	88	88
Henry Hub Natural Gas (HH, NG, NN, HP) - 1 Month Butterfly Month 23-25 (HH TAS NYMEX NATURAL GAS FUTURES)								
HHT	Spec		Increase	USD	275	250	385	350
HHT	Hedge/Member		Increase	USD	250	250	350	350
Henry Hub Natural Gas (HH, NG, NN, HP) - 1 Month Butterfly Month 23-25 (NYMEX NATURAL GAS (H.HUB LTD) FUT)								
HH	Spec		Increase	USD	275	250	385	350
HH	Hedge/Member		Increase	USD	250	250	350	350

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
Intra Spreads								
Henry Hub Natural Gas (HH, NG, NN, HP) - 1 Month Butterfly Month 24-26 (HENRY HUB FUT TRADE AT SETTLEMENT)								
NNT	Spec		Increase	USD	69	63	96	88
NNT	Hedge/Member		Increase	USD	63	63	88	88
Henry Hub Natural Gas (HH, NG, NN, HP) - 1 Month Butterfly Month 24-26 (HENRY HUB FUT)								
NN	Spec		Increase	USD	69	63	96	88
NN	Hedge/Member		Increase	USD	63	63	88	88
Henry Hub Natural Gas (HH, NG, NN, HP) - 1 Month Butterfly Month 24-26 (HH TAS NYMEX NATURAL GAS FUTURES)								
HHT	Spec		Increase	USD	275	250	385	350
HHT	Hedge/Member		Increase	USD	250	250	350	350
Henry Hub Natural Gas (HH, NG, NN, HP) - 1 Month Butterfly Month 24-26 (NYMEX NATURAL GAS (H.HUB LTD) FUT)								
HH	Spec		Increase	USD	275	250	385	350
HH	Hedge/Member		Increase	USD	250	250	350	350
Henry Hub Natural Gas (HH, NG, NN, HP) - 1 Month Butterfly Month 3-5 (HENRY HUB FUT TRADE AT SETTLEMENT)								
NNT	Spec		Increase	USD	69	63	138	125
NNT	Hedge/Member		Increase	USD	63	63	125	125
Henry Hub Natural Gas (HH, NG, NN, HP) - 1 Month Butterfly Month 3-5 (HENRY HUB FUT)								
NN	Spec		Increase	USD	69	63	138	125
NN	Hedge/Member		Increase	USD	63	63	125	125
Henry Hub Natural Gas (HH, NG, NN, HP) - 1 Month Butterfly Month 3-5 (HH TAS NYMEX NATURAL GAS FUTURES)								
HHT	Spec		Increase	USD	275	250	550	500
HHT	Hedge/Member		Increase	USD	250	250	500	500
Henry Hub Natural Gas (HH, NG, NN, HP) - 1 Month Butterfly Month 3-5 (NYMEX NATURAL GAS (H.HUB LTD) FUT)								
HH	Spec		Increase	USD	275	250	550	500
HH	Hedge/Member		Increase	USD	250	250	500	500
Henry Hub Natural Gas (HH, NG, NN, HP) - 1 Month Butterfly Month 4-6 (HENRY HUB FUT TRADE AT SETTLEMENT)								
NNT	Spec		Increase	USD	69	63	96	88
NNT	Hedge/Member		Increase	USD	63	63	88	88
Henry Hub Natural Gas (HH, NG, NN, HP) - 1 Month Butterfly Month 4-6 (HENRY HUB FUT)								
NN	Spec		Increase	USD	69	63	96	88
NN	Hedge/Member		Increase	USD	63	63	88	88
Henry Hub Natural Gas (HH, NG, NN, HP) - 1 Month Butterfly Month 4-6 (HH TAS NYMEX NATURAL GAS FUTURES)								
HHT	Spec		Increase	USD	275	250	385	350
HHT	Hedge/Member		Increase	USD	250	250	350	350

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
Intra Spreads								
Henry Hub Natural Gas (HH, NG, NN, HP) - 1 Month Butterfly Month 4-6 (NYMEX NATURAL GAS (H.HUB LTD) FUT)								
HH	Spec		Increase	USD	275	250	385	350
HH	Hedge/Member		Increase	USD	250	250	350	350
Henry Hub Natural Gas (HH, NG, NN, HP) - 1 Month Butterfly Month 5-7 (HENRY HUB FUT TRADE AT SETTLEMENT)								
NNT	Spec		Increase	USD	69	63	96	88
NNT	Hedge/Member		Increase	USD	63	63	88	88
Henry Hub Natural Gas (HH, NG, NN, HP) - 1 Month Butterfly Month 5-7 (HENRY HUB FUT)								
NN	Spec		Increase	USD	69	63	96	88
NN	Hedge/Member		Increase	USD	63	63	88	88
Henry Hub Natural Gas (HH, NG, NN, HP) - 1 Month Butterfly Month 5-7 (HH TAS NYMEX NATURAL GAS FUTURES)								
HHT	Spec		Increase	USD	275	250	385	350
HHT	Hedge/Member		Increase	USD	250	250	350	350
Henry Hub Natural Gas (HH, NG, NN, HP) - 1 Month Butterfly Month 5-7 (NYMEX NATURAL GAS (H.HUB LTD) FUT)								
HH	Spec		Increase	USD	275	250	385	350
HH	Hedge/Member		Increase	USD	250	250	350	350
Henry Hub Natural Gas (HH, NG, NN, HP) - 1 Month Butterfly Month 6-8 (HENRY HUB FUT TRADE AT SETTLEMENT)								
NNT	Spec		Increase	USD	69	63	96	88
NNT	Hedge/Member		Increase	USD	63	63	88	88
Henry Hub Natural Gas (HH, NG, NN, HP) - 1 Month Butterfly Month 6-8 (HENRY HUB FUT)								
NN	Spec		Increase	USD	69	63	96	88
NN	Hedge/Member		Increase	USD	63	63	88	88
Henry Hub Natural Gas (HH, NG, NN, HP) - 1 Month Butterfly Month 6-8 (HH TAS NYMEX NATURAL GAS FUTURES)								
HHT	Spec		Increase	USD	275	250	385	350
HHT	Hedge/Member		Increase	USD	250	250	350	350
Henry Hub Natural Gas (HH, NG, NN, HP) - 1 Month Butterfly Month 6-8 (NYMEX NATURAL GAS (H.HUB LTD) FUT)								
HH	Spec		Increase	USD	275	250	385	350
HH	Hedge/Member		Increase	USD	250	250	350	350
Henry Hub Natural Gas (HH, NG, NN, HP) - 1 Month Butterfly Month 7-9 (HENRY HUB FUT TRADE AT SETTLEMENT)								
NNT	Spec		Increase	USD	69	63	96	88
NNT	Hedge/Member		Increase	USD	63	63	88	88
Henry Hub Natural Gas (HH, NG, NN, HP) - 1 Month Butterfly Month 7-9 (HENRY HUB FUT)								
NN	Spec		Increase	USD	69	63	96	88
NN	Hedge/Member		Increase	USD	63	63	88	88

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

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

Henry Hub Natural Gas (HH, NG, NN, HP) - 1 Month Butterfly Month 7-9 (HH TAS NYMEX NATURAL GAS FUTURES)

HHT	Spec		Increase	USD	275	250	385	350
HHT	Hedge/Member		Increase	USD	250	250	350	350

Henry Hub Natural Gas (HH, NG, NN, HP) - 1 Month Butterfly Month 7-9 (NYMEX NATURAL GAS (H.HUB LTD) FUT)

HH	Spec		Increase	USD	275	250	385	350
HH	Hedge/Member		Increase	USD	250	250	350	350

Henry Hub Natural Gas (HH, NG, NN, HP) - 1 Month Butterfly Month 8-10 (HENRY HUB FUT TRADE AT SETTLEMENT)

NNT	Spec		Increase	USD	69	63	96	88
NNT	Hedge/Member		Increase	USD	63	63	88	88

Henry Hub Natural Gas (HH, NG, NN, HP) - 1 Month Butterfly Month 8-10 (HENRY HUB FUT)

NN	Spec		Increase	USD	69	63	96	88
NN	Hedge/Member		Increase	USD	63	63	88	88

Henry Hub Natural Gas (HH, NG, NN, HP) - 1 Month Butterfly Month 8-10 (HH TAS NYMEX NATURAL GAS FUTURES)

HHT	Spec		Increase	USD	275	250	385	350
HHT	Hedge/Member		Increase	USD	250	250	350	350

Henry Hub Natural Gas (HH, NG, NN, HP) - 1 Month Butterfly Month 8-10 (NYMEX NATURAL GAS (H.HUB LTD) FUT)

HH	Spec		Increase	USD	275	250	385	350
HH	Hedge/Member		Increase	USD	250	250	350	350

Henry Hub Natural Gas (HH, NG, NN, HP) - 1 Month Butterfly Month 9-11 (HENRY HUB FUT TRADE AT SETTLEMENT)

NNT	Spec		Increase	USD	69	63	96	88
NNT	Hedge/Member		Increase	USD	63	63	88	88

Henry Hub Natural Gas (HH, NG, NN, HP) - 1 Month Butterfly Month 9-11 (HENRY HUB FUT)

NN	Spec		Increase	USD	69	63	96	88
NN	Hedge/Member		Increase	USD	63	63	88	88

Henry Hub Natural Gas (HH, NG, NN, HP) - 1 Month Butterfly Month 9-11 (HH TAS NYMEX NATURAL GAS FUTURES)

HHT	Spec		Increase	USD	275	250	385	350
HHT	Hedge/Member		Increase	USD	250	250	350	350

Henry Hub Natural Gas (HH, NG, NN, HP) - 1 Month Butterfly Month 9-11 (NYMEX NATURAL GAS (H.HUB LTD) FUT)

HH	Spec		Increase	USD	275	250	385	350
HH	Hedge/Member		Increase	USD	250	250	350	350

Henry Hub Natural Gas (NG) - 1 Month Butterfly Month 10-12 (HENRY HUB NAT GAS LAST DAY DELV)

MNG	Spec		Increase	USD	69	63	96	88
MNG	Hedge/Member		Increase	USD	63	63	88	88

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
Intra Spreads								
Henry Hub Natural Gas (NG) - 1 Month Butterfly Month 10-12 (NATURAL GAS HENRY HUB FUTURE)								
NG	Spec		Increase	USD	275	250	385	350
NG	Hedge/Member		Increase	USD	250	250	350	350
Henry Hub Natural Gas (NG) - 1 Month Butterfly Month 10-12 (NATURAL GAS TRADE AT SETTLEMENT)								
NGT	Spec		Increase	USD	275	250	385	350
NGT	Hedge/Member		Increase	USD	250	250	350	350
Henry Hub Natural Gas (NG) - 1 Month Butterfly Month 11-13 (HENRY HUB NAT GAS LAST DAY DELV)								
MNG	Spec		Increase	USD	69	63	96	88
MNG	Hedge/Member		Increase	USD	63	63	88	88
Henry Hub Natural Gas (NG) - 1 Month Butterfly Month 11-13 (NATURAL GAS HENRY HUB FUTURE)								
NG	Spec		Increase	USD	275	250	385	350
NG	Hedge/Member		Increase	USD	250	250	350	350
Henry Hub Natural Gas (NG) - 1 Month Butterfly Month 11-13 (NATURAL GAS TRADE AT SETTLEMENT)								
NGT	Spec		Increase	USD	275	250	385	350
NGT	Hedge/Member		Increase	USD	250	250	350	350
Henry Hub Natural Gas (NG) - 1 Month Butterfly Month 12-14 (HENRY HUB NAT GAS LAST DAY DELV)								
MNG	Spec		Increase	USD	69	63	96	88
MNG	Hedge/Member		Increase	USD	63	63	88	88
Henry Hub Natural Gas (NG) - 1 Month Butterfly Month 12-14 (NATURAL GAS HENRY HUB FUTURE)								
NG	Spec		Increase	USD	275	250	385	350
NG	Hedge/Member		Increase	USD	250	250	350	350
Henry Hub Natural Gas (NG) - 1 Month Butterfly Month 12-14 (NATURAL GAS TRADE AT SETTLEMENT)								
NGT	Spec		Increase	USD	275	250	385	350
NGT	Hedge/Member		Increase	USD	250	250	350	350
Henry Hub Natural Gas (NG) - 1 Month Butterfly Month 1-3 (HENRY HUB NAT GAS LAST DAY DELV)								
MNG	Spec		Increase	USD	69	63	578	525
MNG	Hedge/Member		Increase	USD	63	63	525	525
Henry Hub Natural Gas (NG) - 1 Month Butterfly Month 1-3 (NATURAL GAS HENRY HUB FUTURE)								
NG	Spec		Increase	USD	275	250	2,310	2,100
NG	Hedge/Member		Increase	USD	250	250	2,100	2,100
Henry Hub Natural Gas (NG) - 1 Month Butterfly Month 1-3 (NATURAL GAS TRADE AT SETTLEMENT)								
NGT	Spec		Increase	USD	275	250	2,310	2,100
NGT	Hedge/Member		Increase	USD	250	250	2,100	2,100

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
Intra Spreads								
Henry Hub Natural Gas (NG) - 1 Month Butterfly Month 13-15 (HENRY HUB NAT GAS LAST DAY DELV)								
MNG	Spec		Increase	USD	69	63	96	88
MNG	Hedge/Member		Increase	USD	63	63	88	88
Henry Hub Natural Gas (NG) - 1 Month Butterfly Month 13-15 (NATURAL GAS HENRY HUB FUTURE)								
NG	Spec		Increase	USD	275	250	385	350
NG	Hedge/Member		Increase	USD	250	250	350	350
Henry Hub Natural Gas (NG) - 1 Month Butterfly Month 13-15 (NATURAL GAS TRADE AT SETTLEMENT)								
NGT	Spec		Increase	USD	275	250	385	350
NGT	Hedge/Member		Increase	USD	250	250	350	350
Henry Hub Natural Gas (NG) - 1 Month Butterfly Month 14-16 (HENRY HUB NAT GAS LAST DAY DELV)								
MNG	Spec		Increase	USD	69	63	96	88
MNG	Hedge/Member		Increase	USD	63	63	88	88
Henry Hub Natural Gas (NG) - 1 Month Butterfly Month 14-16 (NATURAL GAS HENRY HUB FUTURE)								
NG	Spec		Increase	USD	275	250	385	350
NG	Hedge/Member		Increase	USD	250	250	350	350
Henry Hub Natural Gas (NG) - 1 Month Butterfly Month 14-16 (NATURAL GAS TRADE AT SETTLEMENT)								
NGT	Spec		Increase	USD	275	250	385	350
NGT	Hedge/Member		Increase	USD	250	250	350	350
Henry Hub Natural Gas (NG) - 1 Month Butterfly Month 15-17 (HENRY HUB NAT GAS LAST DAY DELV)								
MNG	Spec		Increase	USD	69	63	96	88
MNG	Hedge/Member		Increase	USD	63	63	88	88
Henry Hub Natural Gas (NG) - 1 Month Butterfly Month 15-17 (NATURAL GAS HENRY HUB FUTURE)								
NG	Spec		Increase	USD	275	250	385	350
NG	Hedge/Member		Increase	USD	250	250	350	350
Henry Hub Natural Gas (NG) - 1 Month Butterfly Month 15-17 (NATURAL GAS TRADE AT SETTLEMENT)								
NGT	Spec		Increase	USD	275	250	385	350
NGT	Hedge/Member		Increase	USD	250	250	350	350
Henry Hub Natural Gas (NG) - 1 Month Butterfly Month 16-18 (HENRY HUB NAT GAS LAST DAY DELV)								
MNG	Spec		Increase	USD	69	63	96	88
MNG	Hedge/Member		Increase	USD	63	63	88	88
Henry Hub Natural Gas (NG) - 1 Month Butterfly Month 16-18 (NATURAL GAS HENRY HUB FUTURE)								
NG	Spec		Increase	USD	275	250	385	350
NG	Hedge/Member		Increase	USD	250	250	350	350

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
Intra Spreads								
Henry Hub Natural Gas (NG) - 1 Month Butterfly Month 16-18 (NATURAL GAS TRADE AT SETTLEMENT)								
NGT	Spec		Increase	USD	275	250	385	350
NGT	Hedge/Member		Increase	USD	250	250	350	350
Henry Hub Natural Gas (NG) - 1 Month Butterfly Month 17-19 (HENRY HUB NAT GAS LAST DAY DELV)								
MNG	Spec		Increase	USD	69	63	96	88
MNG	Hedge/Member		Increase	USD	63	63	88	88
Henry Hub Natural Gas (NG) - 1 Month Butterfly Month 17-19 (NATURAL GAS HENRY HUB FUTURE)								
NG	Spec		Increase	USD	275	250	385	350
NG	Hedge/Member		Increase	USD	250	250	350	350
Henry Hub Natural Gas (NG) - 1 Month Butterfly Month 17-19 (NATURAL GAS TRADE AT SETTLEMENT)								
NGT	Spec		Increase	USD	275	250	385	350
NGT	Hedge/Member		Increase	USD	250	250	350	350
Henry Hub Natural Gas (NG) - 1 Month Butterfly Month 18-20 (HENRY HUB NAT GAS LAST DAY DELV)								
MNG	Spec		Increase	USD	69	63	96	88
MNG	Hedge/Member		Increase	USD	63	63	88	88
Henry Hub Natural Gas (NG) - 1 Month Butterfly Month 18-20 (NATURAL GAS HENRY HUB FUTURE)								
NG	Spec		Increase	USD	275	250	385	350
NG	Hedge/Member		Increase	USD	250	250	350	350
Henry Hub Natural Gas (NG) - 1 Month Butterfly Month 18-20 (NATURAL GAS TRADE AT SETTLEMENT)								
NGT	Spec		Increase	USD	275	250	385	350
NGT	Hedge/Member		Increase	USD	250	250	350	350
Henry Hub Natural Gas (NG) - 1 Month Butterfly Month 19-21 (HENRY HUB NAT GAS LAST DAY DELV)								
MNG	Spec		Increase	USD	69	63	96	88
MNG	Hedge/Member		Increase	USD	63	63	88	88
Henry Hub Natural Gas (NG) - 1 Month Butterfly Month 19-21 (NATURAL GAS HENRY HUB FUTURE)								
NG	Spec		Increase	USD	275	250	385	350
NG	Hedge/Member		Increase	USD	250	250	350	350
Henry Hub Natural Gas (NG) - 1 Month Butterfly Month 19-21 (NATURAL GAS TRADE AT SETTLEMENT)								
NGT	Spec		Increase	USD	275	250	385	350
NGT	Hedge/Member		Increase	USD	250	250	350	350
Henry Hub Natural Gas (NG) - 1 Month Butterfly Month 20-22 (HENRY HUB NAT GAS LAST DAY DELV)								
MNG	Spec		Increase	USD	69	63	96	88
MNG	Hedge/Member		Increase	USD	63	63	88	88

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
Intra Spreads								
Henry Hub Natural Gas (NG) - 1 Month Butterfly Month 20-22 (NATURAL GAS HENRY HUB FUTURE)								
NG	Spec		Increase	USD	275	250	385	350
NG	Hedge/Member		Increase	USD	250	250	350	350
Henry Hub Natural Gas (NG) - 1 Month Butterfly Month 20-22 (NATURAL GAS TRADE AT SETTLEMENT)								
NGT	Spec		Increase	USD	275	250	385	350
NGT	Hedge/Member		Increase	USD	250	250	350	350
Henry Hub Natural Gas (NG) - 1 Month Butterfly Month 21-23 (HENRY HUB NAT GAS LAST DAY DELV)								
MNG	Spec		Increase	USD	69	63	96	88
MNG	Hedge/Member		Increase	USD	63	63	88	88
Henry Hub Natural Gas (NG) - 1 Month Butterfly Month 21-23 (NATURAL GAS HENRY HUB FUTURE)								
NG	Spec		Increase	USD	275	250	385	350
NG	Hedge/Member		Increase	USD	250	250	350	350
Henry Hub Natural Gas (NG) - 1 Month Butterfly Month 21-23 (NATURAL GAS TRADE AT SETTLEMENT)								
NGT	Spec		Increase	USD	275	250	385	350
NGT	Hedge/Member		Increase	USD	250	250	350	350
Henry Hub Natural Gas (NG) - 1 Month Butterfly Month 22-24 (HENRY HUB NAT GAS LAST DAY DELV)								
MNG	Spec		Increase	USD	69	63	96	88
MNG	Hedge/Member		Increase	USD	63	63	88	88
Henry Hub Natural Gas (NG) - 1 Month Butterfly Month 22-24 (NATURAL GAS HENRY HUB FUTURE)								
NG	Spec		Increase	USD	275	250	385	350
NG	Hedge/Member		Increase	USD	250	250	350	350
Henry Hub Natural Gas (NG) - 1 Month Butterfly Month 22-24 (NATURAL GAS TRADE AT SETTLEMENT)								
NGT	Spec		Increase	USD	275	250	385	350
NGT	Hedge/Member		Increase	USD	250	250	350	350
Henry Hub Natural Gas (NG) - 1 Month Butterfly Month 23-25 (HENRY HUB NAT GAS LAST DAY DELV)								
MNG	Spec		Increase	USD	69	63	96	88
MNG	Hedge/Member		Increase	USD	63	63	88	88
Henry Hub Natural Gas (NG) - 1 Month Butterfly Month 23-25 (NATURAL GAS HENRY HUB FUTURE)								
NG	Spec		Increase	USD	275	250	385	350
NG	Hedge/Member		Increase	USD	250	250	350	350
Henry Hub Natural Gas (NG) - 1 Month Butterfly Month 23-25 (NATURAL GAS TRADE AT SETTLEMENT)								
NGT	Spec		Increase	USD	275	250	385	350
NGT	Hedge/Member		Increase	USD	250	250	350	350

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
Intra Spreads								
Henry Hub Natural Gas (NG) - 1 Month Butterfly Month 24-26 (HENRY HUB NAT GAS LAST DAY DELV)								
MNG	Spec		Increase	USD	69	63	96	88
MNG	Hedge/Member		Increase	USD	63	63	88	88
Henry Hub Natural Gas (NG) - 1 Month Butterfly Month 24-26 (NATURAL GAS HENRY HUB FUTURE)								
NG	Spec		Increase	USD	275	250	385	350
NG	Hedge/Member		Increase	USD	250	250	350	350
Henry Hub Natural Gas (NG) - 1 Month Butterfly Month 24-26 (NATURAL GAS TRADE AT SETTLEMENT)								
NGT	Spec		Increase	USD	275	250	385	350
NGT	Hedge/Member		Increase	USD	250	250	350	350
Henry Hub Natural Gas (NG) - 1 Month Butterfly Month 3-5 (HENRY HUB NAT GAS LAST DAY DELV)								
MNG	Spec		Increase	USD	69	63	138	125
MNG	Hedge/Member		Increase	USD	63	63	125	125
Henry Hub Natural Gas (NG) - 1 Month Butterfly Month 3-5 (NATURAL GAS HENRY HUB FUTURE)								
NG	Spec		Increase	USD	275	250	550	500
NG	Hedge/Member		Increase	USD	250	250	500	500
Henry Hub Natural Gas (NG) - 1 Month Butterfly Month 3-5 (NATURAL GAS TRADE AT SETTLEMENT)								
NGT	Spec		Increase	USD	275	250	550	500
NGT	Hedge/Member		Increase	USD	250	250	500	500
Henry Hub Natural Gas (NG) - 1 Month Butterfly Month 4-6 (HENRY HUB NAT GAS LAST DAY DELV)								
MNG	Spec		Increase	USD	69	63	96	88
MNG	Hedge/Member		Increase	USD	63	63	88	88
Henry Hub Natural Gas (NG) - 1 Month Butterfly Month 4-6 (NATURAL GAS HENRY HUB FUTURE)								
NG	Spec		Increase	USD	275	250	385	350
NG	Hedge/Member		Increase	USD	250	250	350	350
Henry Hub Natural Gas (NG) - 1 Month Butterfly Month 4-6 (NATURAL GAS TRADE AT SETTLEMENT)								
NGT	Spec		Increase	USD	275	250	385	350
NGT	Hedge/Member		Increase	USD	250	250	350	350
Henry Hub Natural Gas (NG) - 1 Month Butterfly Month 5-7 (HENRY HUB NAT GAS LAST DAY DELV)								
MNG	Spec		Increase	USD	69	63	96	88
MNG	Hedge/Member		Increase	USD	63	63	88	88
Henry Hub Natural Gas (NG) - 1 Month Butterfly Month 5-7 (NATURAL GAS HENRY HUB FUTURE)								
NG	Spec		Increase	USD	275	250	385	350
NG	Hedge/Member		Increase	USD	250	250	350	350

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
Intra Spreads								
Henry Hub Natural Gas (NG) - 1 Month Butterfly Month 5-7 (NATURAL GAS TRADE AT SETTLEMENT)								
NGT	Spec		Increase	USD	275	250	385	350
NGT	Hedge/Member		Increase	USD	250	250	350	350
Henry Hub Natural Gas (NG) - 1 Month Butterfly Month 6-8 (HENRY HUB NAT GAS LAST DAY DELV)								
MNG	Spec		Increase	USD	69	63	96	88
MNG	Hedge/Member		Increase	USD	63	63	88	88
Henry Hub Natural Gas (NG) - 1 Month Butterfly Month 6-8 (NATURAL GAS HENRY HUB FUTURE)								
NG	Spec		Increase	USD	275	250	385	350
NG	Hedge/Member		Increase	USD	250	250	350	350
Henry Hub Natural Gas (NG) - 1 Month Butterfly Month 6-8 (NATURAL GAS TRADE AT SETTLEMENT)								
NGT	Spec		Increase	USD	275	250	385	350
NGT	Hedge/Member		Increase	USD	250	250	350	350
Henry Hub Natural Gas (NG) - 1 Month Butterfly Month 7-9 (HENRY HUB NAT GAS LAST DAY DELV)								
MNG	Spec		Increase	USD	69	63	96	88
MNG	Hedge/Member		Increase	USD	63	63	88	88
Henry Hub Natural Gas (NG) - 1 Month Butterfly Month 7-9 (NATURAL GAS HENRY HUB FUTURE)								
NG	Spec		Increase	USD	275	250	385	350
NG	Hedge/Member		Increase	USD	250	250	350	350
Henry Hub Natural Gas (NG) - 1 Month Butterfly Month 7-9 (NATURAL GAS TRADE AT SETTLEMENT)								
NGT	Spec		Increase	USD	275	250	385	350
NGT	Hedge/Member		Increase	USD	250	250	350	350
Henry Hub Natural Gas (NG) - 1 Month Butterfly Month 8-10 (HENRY HUB NAT GAS LAST DAY DELV)								
MNG	Spec		Increase	USD	69	63	96	88
MNG	Hedge/Member		Increase	USD	63	63	88	88
Henry Hub Natural Gas (NG) - 1 Month Butterfly Month 8-10 (NATURAL GAS HENRY HUB FUTURE)								
NG	Spec		Increase	USD	275	250	385	350
NG	Hedge/Member		Increase	USD	250	250	350	350
Henry Hub Natural Gas (NG) - 1 Month Butterfly Month 8-10 (NATURAL GAS TRADE AT SETTLEMENT)								
NGT	Spec		Increase	USD	275	250	385	350
NGT	Hedge/Member		Increase	USD	250	250	350	350
Henry Hub Natural Gas (NG) - 1 Month Butterfly Month 9-11 (HENRY HUB NAT GAS LAST DAY DELV)								
MNG	Spec		Increase	USD	69	63	96	88
MNG	Hedge/Member		Increase	USD	63	63	88	88

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
Intra Spreads								
Henry Hub Natural Gas (NG) - 1 Month Butterfly Month 9-11 (NATURAL GAS HENRY HUB FUTURE)								
NG	Spec		Increase	USD	275	250	385	350
NG	Hedge/Member		Increase	USD	250	250	350	350
Henry Hub Natural Gas (NG) - 1 Month Butterfly Month 9-11 (NATURAL GAS TRADE AT SETTLEMENT)								
NGT	Spec		Increase	USD	275	250	385	350
NGT	Hedge/Member		Increase	USD	250	250	350	350
Henry Hub Natural Gas Penultimate Financial Futures (HP) - 1 Month Butterfly Month 10-12 (E-MINI NATURAL GAS FUTURES)								
QG	Spec		Increase	USD	69	63	96	88
QG	Hedge/Member		Increase	USD	63	63	88	88
Henry Hub Natural Gas Penultimate Financial Futures (HP) - 1 Month Butterfly Month 10-12 (HENRY HUB PENULTIMATE)								
NP	Spec		Increase	USD	69	63	96	88
NP	Hedge/Member		Increase	USD	63	63	88	88
Henry Hub Natural Gas Penultimate Financial Futures (HP) - 1 Month Butterfly Month 10-12 (NYMEX NATURAL GAS FUTURES)								
HP	Spec		Increase	USD	275	250	385	350
HP	Hedge/Member		Increase	USD	250	250	350	350
Henry Hub Natural Gas Penultimate Financial Futures (HP) - 1 Month Butterfly Month 11-13 (E-MINI NATURAL GAS FUTURES)								
QG	Spec		Increase	USD	69	63	96	88
QG	Hedge/Member		Increase	USD	63	63	88	88
Henry Hub Natural Gas Penultimate Financial Futures (HP) - 1 Month Butterfly Month 11-13 (HENRY HUB PENULTIMATE)								
NP	Spec		Increase	USD	69	63	96	88
NP	Hedge/Member		Increase	USD	63	63	88	88
Henry Hub Natural Gas Penultimate Financial Futures (HP) - 1 Month Butterfly Month 11-13 (NYMEX NATURAL GAS FUTURES)								
HP	Spec		Increase	USD	275	250	385	350
HP	Hedge/Member		Increase	USD	250	250	350	350
Henry Hub Natural Gas Penultimate Financial Futures (HP) - 1 Month Butterfly Month 12-14 (E-MINI NATURAL GAS FUTURES)								
QG	Spec		Increase	USD	69	63	96	88
QG	Hedge/Member		Increase	USD	63	63	88	88
Henry Hub Natural Gas Penultimate Financial Futures (HP) - 1 Month Butterfly Month 12-14 (HENRY HUB PENULTIMATE)								
NP	Spec		Increase	USD	69	63	96	88
NP	Hedge/Member		Increase	USD	63	63	88	88

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
Intra Spreads								
Henry Hub Natural Gas Penultimate Financial Futures (HP) - 1 Month Butterfly Month 12-14 (NYMEX NATURAL GAS FUTURES)								
HP	Spec		Increase	USD	275	250	385	350
HP	Hedge/Member		Increase	USD	250	250	350	350
Henry Hub Natural Gas Penultimate Financial Futures (HP) - 1 Month Butterfly Month 1-3 (E-MINI NATURAL GAS FUTURES)								
QG	Spec		Increase	USD	69	63	578	525
QG	Hedge/Member		Increase	USD	63	63	525	525
Henry Hub Natural Gas Penultimate Financial Futures (HP) - 1 Month Butterfly Month 1-3 (HENRY HUB PENULTIMATE)								
NP	Spec		Increase	USD	69	63	578	525
NP	Hedge/Member		Increase	USD	63	63	525	525
Henry Hub Natural Gas Penultimate Financial Futures (HP) - 1 Month Butterfly Month 1-3 (NYMEX NATURAL GAS FUTURES)								
HP	Spec		Increase	USD	275	250	2,310	2,100
HP	Hedge/Member		Increase	USD	250	250	2,100	2,100
Henry Hub Natural Gas Penultimate Financial Futures (HP) - 1 Month Butterfly Month 13-15 (E-MINI NATURAL GAS FUTURES)								
QG	Spec		Increase	USD	69	63	96	88
QG	Hedge/Member		Increase	USD	63	63	88	88
Henry Hub Natural Gas Penultimate Financial Futures (HP) - 1 Month Butterfly Month 13-15 (HENRY HUB PENULTIMATE)								
NP	Spec		Increase	USD	69	63	96	88
NP	Hedge/Member		Increase	USD	63	63	88	88
Henry Hub Natural Gas Penultimate Financial Futures (HP) - 1 Month Butterfly Month 13-15 (NYMEX NATURAL GAS FUTURES)								
HP	Spec		Increase	USD	275	250	385	350
HP	Hedge/Member		Increase	USD	250	250	350	350
Henry Hub Natural Gas Penultimate Financial Futures (HP) - 1 Month Butterfly Month 14-16 (E-MINI NATURAL GAS FUTURES)								
QG	Spec		Increase	USD	69	63	96	88
QG	Hedge/Member		Increase	USD	63	63	88	88
Henry Hub Natural Gas Penultimate Financial Futures (HP) - 1 Month Butterfly Month 14-16 (HENRY HUB PENULTIMATE)								
NP	Spec		Increase	USD	69	63	96	88
NP	Hedge/Member		Increase	USD	63	63	88	88

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

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

Henry Hub Natural Gas Penultimate Financial Futures (HP) - 1 Month Butterfly Month 14-16 (NYMEX NATURAL GAS FUTURES)

HP	Spec	Increase	USD	275	250	385	350
HP	Hedge/Member	Increase	USD	250	250	350	350

Henry Hub Natural Gas Penultimate Financial Futures (HP) - 1 Month Butterfly Month 15-17 (E-MINI NATURAL GAS FUTURES)

QG	Spec	Increase	USD	69	63	96	88
QG	Hedge/Member	Increase	USD	63	63	88	88

Henry Hub Natural Gas Penultimate Financial Futures (HP) - 1 Month Butterfly Month 15-17 (HENRY HUB PENULTIMATE)

NP	Spec	Increase	USD	69	63	96	88
NP	Hedge/Member	Increase	USD	63	63	88	88

Henry Hub Natural Gas Penultimate Financial Futures (HP) - 1 Month Butterfly Month 15-17 (NYMEX NATURAL GAS FUTURES)

HP	Spec	Increase	USD	275	250	385	350
HP	Hedge/Member	Increase	USD	250	250	350	350

Henry Hub Natural Gas Penultimate Financial Futures (HP) - 1 Month Butterfly Month 16-18 (E-MINI NATURAL GAS FUTURES)

QG	Spec	Increase	USD	69	63	96	88
QG	Hedge/Member	Increase	USD	63	63	88	88

Henry Hub Natural Gas Penultimate Financial Futures (HP) - 1 Month Butterfly Month 16-18 (HENRY HUB PENULTIMATE)

NP	Spec	Increase	USD	69	63	96	88
NP	Hedge/Member	Increase	USD	63	63	88	88

Henry Hub Natural Gas Penultimate Financial Futures (HP) - 1 Month Butterfly Month 16-18 (NYMEX NATURAL GAS FUTURES)

HP	Spec	Increase	USD	275	250	385	350
HP	Hedge/Member	Increase	USD	250	250	350	350

Henry Hub Natural Gas Penultimate Financial Futures (HP) - 1 Month Butterfly Month 17-19 (E-MINI NATURAL GAS FUTURES)

QG	Spec	Increase	USD	69	63	96	88
QG	Hedge/Member	Increase	USD	63	63	88	88

Henry Hub Natural Gas Penultimate Financial Futures (HP) - 1 Month Butterfly Month 17-19 (HENRY HUB PENULTIMATE)

NP	Spec	Increase	USD	69	63	96	88
NP	Hedge/Member	Increase	USD	63	63	88	88

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
Intra Spreads								
Henry Hub Natural Gas Penultimate Financial Futures (HP) - 1 Month Butterfly Month 17-19 (NYMEX NATURAL GAS FUTURES)								
HP	Spec		Increase	USD	275	250	385	350
HP	Hedge/Member		Increase	USD	250	250	350	350
Henry Hub Natural Gas Penultimate Financial Futures (HP) - 1 Month Butterfly Month 18-20 (E-MINI NATURAL GAS FUTURES)								
QG	Spec		Increase	USD	69	63	96	88
QG	Hedge/Member		Increase	USD	63	63	88	88
Henry Hub Natural Gas Penultimate Financial Futures (HP) - 1 Month Butterfly Month 18-20 (HENRY HUB PENULTIMATE)								
NP	Spec		Increase	USD	69	63	96	88
NP	Hedge/Member		Increase	USD	63	63	88	88
Henry Hub Natural Gas Penultimate Financial Futures (HP) - 1 Month Butterfly Month 18-20 (NYMEX NATURAL GAS FUTURES)								
HP	Spec		Increase	USD	275	250	385	350
HP	Hedge/Member		Increase	USD	250	250	350	350
Henry Hub Natural Gas Penultimate Financial Futures (HP) - 1 Month Butterfly Month 19-21 (E-MINI NATURAL GAS FUTURES)								
QG	Spec		Increase	USD	69	63	96	88
QG	Hedge/Member		Increase	USD	63	63	88	88
Henry Hub Natural Gas Penultimate Financial Futures (HP) - 1 Month Butterfly Month 19-21 (HENRY HUB PENULTIMATE)								
NP	Spec		Increase	USD	69	63	96	88
NP	Hedge/Member		Increase	USD	63	63	88	88
Henry Hub Natural Gas Penultimate Financial Futures (HP) - 1 Month Butterfly Month 19-21 (NYMEX NATURAL GAS FUTURES)								
HP	Spec		Increase	USD	275	250	385	350
HP	Hedge/Member		Increase	USD	250	250	350	350
Henry Hub Natural Gas Penultimate Financial Futures (HP) - 1 Month Butterfly Month 20-22 (E-MINI NATURAL GAS FUTURES)								
QG	Spec		Increase	USD	69	63	96	88
QG	Hedge/Member		Increase	USD	63	63	88	88
Henry Hub Natural Gas Penultimate Financial Futures (HP) - 1 Month Butterfly Month 20-22 (HENRY HUB PENULTIMATE)								
NP	Spec		Increase	USD	69	63	96	88
NP	Hedge/Member		Increase	USD	63	63	88	88

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
Intra Spreads								
Henry Hub Natural Gas Penultimate Financial Futures (HP) - 1 Month Butterfly Month 20-22 (NYMEX NATURAL GAS FUTURES)								
HP	Spec		Increase	USD	275	250	385	350
HP	Hedge/Member		Increase	USD	250	250	350	350
Henry Hub Natural Gas Penultimate Financial Futures (HP) - 1 Month Butterfly Month 21-23 (E-MINI NATURAL GAS FUTURES)								
QG	Spec		Increase	USD	69	63	96	88
QG	Hedge/Member		Increase	USD	63	63	88	88
Henry Hub Natural Gas Penultimate Financial Futures (HP) - 1 Month Butterfly Month 21-23 (HENRY HUB PENULTIMATE)								
NP	Spec		Increase	USD	69	63	96	88
NP	Hedge/Member		Increase	USD	63	63	88	88
Henry Hub Natural Gas Penultimate Financial Futures (HP) - 1 Month Butterfly Month 21-23 (NYMEX NATURAL GAS FUTURES)								
HP	Spec		Increase	USD	275	250	385	350
HP	Hedge/Member		Increase	USD	250	250	350	350
Henry Hub Natural Gas Penultimate Financial Futures (HP) - 1 Month Butterfly Month 22-24 (E-MINI NATURAL GAS FUTURES)								
QG	Spec		Increase	USD	69	63	96	88
QG	Hedge/Member		Increase	USD	63	63	88	88
Henry Hub Natural Gas Penultimate Financial Futures (HP) - 1 Month Butterfly Month 22-24 (HENRY HUB PENULTIMATE)								
NP	Spec		Increase	USD	69	63	96	88
NP	Hedge/Member		Increase	USD	63	63	88	88
Henry Hub Natural Gas Penultimate Financial Futures (HP) - 1 Month Butterfly Month 22-24 (NYMEX NATURAL GAS FUTURES)								
HP	Spec		Increase	USD	275	250	385	350
HP	Hedge/Member		Increase	USD	250	250	350	350
Henry Hub Natural Gas Penultimate Financial Futures (HP) - 1 Month Butterfly Month 23-25 (E-MINI NATURAL GAS FUTURES)								
QG	Spec		Increase	USD	69	63	96	88
QG	Hedge/Member		Increase	USD	63	63	88	88
Henry Hub Natural Gas Penultimate Financial Futures (HP) - 1 Month Butterfly Month 23-25 (HENRY HUB PENULTIMATE)								
NP	Spec		Increase	USD	69	63	96	88
NP	Hedge/Member		Increase	USD	63	63	88	88

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

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

Henry Hub Natural Gas Penultimate Financial Futures (HP) - 1 Month Butterfly Month 23-25 (NYMEX NATURAL GAS FUTURES)

HP	Spec		Increase	USD	275	250	385	350
HP	Hedge/Member		Increase	USD	250	250	350	350

Henry Hub Natural Gas Penultimate Financial Futures (HP) - 1 Month Butterfly Month 24-26 (E-MINI NATURAL GAS FUTURES)

QG	Spec		Increase	USD	69	63	96	88
QG	Hedge/Member		Increase	USD	63	63	88	88

Henry Hub Natural Gas Penultimate Financial Futures (HP) - 1 Month Butterfly Month 24-26 (HENRY HUB PENULTIMATE)

NP	Spec		Increase	USD	69	63	96	88
NP	Hedge/Member		Increase	USD	63	63	88	88

Henry Hub Natural Gas Penultimate Financial Futures (HP) - 1 Month Butterfly Month 24-26 (NYMEX NATURAL GAS FUTURES)

HP	Spec		Increase	USD	275	250	385	350
HP	Hedge/Member		Increase	USD	250	250	350	350

Henry Hub Natural Gas Penultimate Financial Futures (HP) - 1 Month Butterfly Month 3-5 (E-MINI NATURAL GAS FUTURES)

QG	Spec		Increase	USD	69	63	138	125
QG	Hedge/Member		Increase	USD	63	63	125	125

Henry Hub Natural Gas Penultimate Financial Futures (HP) - 1 Month Butterfly Month 3-5 (HENRY HUB PENULTIMATE)

NP	Spec		Increase	USD	69	63	138	125
NP	Hedge/Member		Increase	USD	63	63	125	125

Henry Hub Natural Gas Penultimate Financial Futures (HP) - 1 Month Butterfly Month 3-5 (NYMEX NATURAL GAS FUTURES)

HP	Spec		Increase	USD	275	250	550	500
HP	Hedge/Member		Increase	USD	250	250	500	500

Henry Hub Natural Gas Penultimate Financial Futures (HP) - 1 Month Butterfly Month 4-6 (E-MINI NATURAL GAS FUTURES)

QG	Spec		Increase	USD	69	63	96	88
QG	Hedge/Member		Increase	USD	63	63	88	88

Henry Hub Natural Gas Penultimate Financial Futures (HP) - 1 Month Butterfly Month 4-6 (HENRY HUB PENULTIMATE)

NP	Spec		Increase	USD	69	63	96	88
NP	Hedge/Member		Increase	USD	63	63	88	88

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
Intra Spreads								
Henry Hub Natural Gas Penultimate Financial Futures (HP) - 1 Month Butterfly Month 4-6 (NYMEX NATURAL GAS FUTURES)								
HP	Spec		Increase	USD	275	250	385	350
HP	Hedge/Member		Increase	USD	250	250	350	350
Henry Hub Natural Gas Penultimate Financial Futures (HP) - 1 Month Butterfly Month 5-7 (E-MINI NATURAL GAS FUTURES)								
QG	Spec		Increase	USD	69	63	96	88
QG	Hedge/Member		Increase	USD	63	63	88	88
Henry Hub Natural Gas Penultimate Financial Futures (HP) - 1 Month Butterfly Month 5-7 (HENRY HUB PENULTIMATE)								
NP	Spec		Increase	USD	69	63	96	88
NP	Hedge/Member		Increase	USD	63	63	88	88
Henry Hub Natural Gas Penultimate Financial Futures (HP) - 1 Month Butterfly Month 5-7 (NYMEX NATURAL GAS FUTURES)								
HP	Spec		Increase	USD	275	250	385	350
HP	Hedge/Member		Increase	USD	250	250	350	350
Henry Hub Natural Gas Penultimate Financial Futures (HP) - 1 Month Butterfly Month 6-8 (E-MINI NATURAL GAS FUTURES)								
QG	Spec		Increase	USD	69	63	96	88
QG	Hedge/Member		Increase	USD	63	63	88	88
Henry Hub Natural Gas Penultimate Financial Futures (HP) - 1 Month Butterfly Month 6-8 (HENRY HUB PENULTIMATE)								
NP	Spec		Increase	USD	69	63	96	88
NP	Hedge/Member		Increase	USD	63	63	88	88
Henry Hub Natural Gas Penultimate Financial Futures (HP) - 1 Month Butterfly Month 6-8 (NYMEX NATURAL GAS FUTURES)								
HP	Spec		Increase	USD	275	250	385	350
HP	Hedge/Member		Increase	USD	250	250	350	350
Henry Hub Natural Gas Penultimate Financial Futures (HP) - 1 Month Butterfly Month 7-9 (E-MINI NATURAL GAS FUTURES)								
QG	Spec		Increase	USD	69	63	96	88
QG	Hedge/Member		Increase	USD	63	63	88	88
Henry Hub Natural Gas Penultimate Financial Futures (HP) - 1 Month Butterfly Month 7-9 (HENRY HUB PENULTIMATE)								
NP	Spec		Increase	USD	69	63	96	88
NP	Hedge/Member		Increase	USD	63	63	88	88

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
Intra Spreads								
Henry Hub Natural Gas Penultimate Financial Futures (HP) - 1 Month Butterfly Month 7-9 (NYMEX NATURAL GAS FUTURES)								
HP	Spec		Increase	USD	275	250	385	350
HP	Hedge/Member		Increase	USD	250	250	350	350
Henry Hub Natural Gas Penultimate Financial Futures (HP) - 1 Month Butterfly Month 8-10 (E-MINI NATURAL GAS FUTURES)								
QG	Spec		Increase	USD	69	63	96	88
QG	Hedge/Member		Increase	USD	63	63	88	88
Henry Hub Natural Gas Penultimate Financial Futures (HP) - 1 Month Butterfly Month 8-10 (HENRY HUB PENULTIMATE)								
NP	Spec		Increase	USD	69	63	96	88
NP	Hedge/Member		Increase	USD	63	63	88	88
Henry Hub Natural Gas Penultimate Financial Futures (HP) - 1 Month Butterfly Month 8-10 (NYMEX NATURAL GAS FUTURES)								
HP	Spec		Increase	USD	275	250	385	350
HP	Hedge/Member		Increase	USD	250	250	350	350
Henry Hub Natural Gas Penultimate Financial Futures (HP) - 1 Month Butterfly Month 9-11 (E-MINI NATURAL GAS FUTURES)								
QG	Spec		Increase	USD	69	63	96	88
QG	Hedge/Member		Increase	USD	63	63	88	88
Henry Hub Natural Gas Penultimate Financial Futures (HP) - 1 Month Butterfly Month 9-11 (HENRY HUB PENULTIMATE)								
NP	Spec		Increase	USD	69	63	96	88
NP	Hedge/Member		Increase	USD	63	63	88	88
Henry Hub Natural Gas Penultimate Financial Futures (HP) - 1 Month Butterfly Month 9-11 (NYMEX NATURAL GAS FUTURES)								
HP	Spec		Increase	USD	275	250	385	350
HP	Hedge/Member		Increase	USD	250	250	350	350
Houston Ship Channel Basis Swap (Platts IFERC) - All Months (HOUSTON SHIP CHANNEL BASIS FUT)								
NH	Spec		Increase	USD	50	45	88	80
NH	Hedge/Member		Increase	USD	45	45	80	80
MICHIGAN BASIS (NF) - All Months (MICHIGAN BASIS)								
NF	Spec		Increase	USD	110	100	275	250
NF	Hedge/Member		Increase	USD	100	100	250	250
NGPL LA Basis - All Months (NGPL LA)								
NY	Spec		Increase	USD	110	100	220	200
NY	Hedge/Member		Increase	USD	100	100	200	200

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
Intra Spreads								
NGPL Mid-Continent Basis - All Months (NGPL MIDCONTINENT BASIS FUT)								
NL	Spec		Increase	USD	110	100	330	300
NL	Hedge/Member		Increase	USD	100	100	300	300
Northwest Pipeline, Rockies Basis Swap - All Months (NORTHWEST PIPELINE BASIS FUT)								
NR	Spec		Increase	USD	165	150	220	200
NR	Hedge/Member		Increase	USD	150	150	200	200
ONEOK OKLAHOMA NG BASIS - All Months (ONEOK OKLAHOMA NG BASIS)								
8X	Spec		Increase	USD	110	100	220	200
8X	Hedge/Member		Increase	USD	100	100	200	200
Panhandle Basis Swap - All Months (PANHANDLE BASIS FUT)								
PH	Spec		Increase	USD	165	150	275	250
PH	Hedge/Member		Increase	USD	150	150	250	250
PGE&E CITYGATE (PC) - All Months (PGE&E CITYGATE)								
PC	Spec		Increase	USD	165	150	275	250
PC	Hedge/Member		Increase	USD	150	150	250	250
SoCal Basis Swap (NGI) - All Months (SOCAL BASIS FUT)								
NS	Spec		Increase	USD	132	120	160	145
NS	Hedge/Member		Increase	USD	120	120	145	145
TETCO STX BASIS (TX) - All Months (TETCO STX BASIS)								
TX	Spec		Increase	USD	83	75	110	100
TX	Hedge/Member		Increase	USD	75	75	100	100
Texas Eastern Zone M-3 Basis Swap - All Months (TEXAS EASTERN ZONE M-3 BASIS FUT)								
NX	Spec		Increase	USD	440	400	880	800
NX	Hedge/Member		Increase	USD	400	400	800	800
Transco Zone 3 Basis Swap - All Months (TRANSCO ZONE 3 BASIS)								
CZ	Spec		Increase	USD	55	50	88	80
CZ	Hedge/Member		Increase	USD	50	50	80	80
Transco Zone 6 Basis Swap - All Months (TRANSCO ZONE 6 BASIS FUT)								
NZ	Spec		Increase	USD	660	600	1,320	1,200
NZ	Hedge/Member		Increase	USD	600	600	1,200	1,200
Transco Zone 6 Non-N.Y (Platts IFERC) Basis Swap Futures - All Months (TRANSCO ZONE 6 NON NY BASIS FUT)								
TZ6	Spec		Increase	USD	275	250	550	500
TZ6	Hedge/Member		Increase	USD	250	250	500	500

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

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

Waha Basis Swap - All Months (WAHA TEXAS BASIS FUT)

NW	Spec		Increase	USD	110	100	248	225
NW	Hedge/Member		Increase	USD	100	100	225	225

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
ELECTRICITY - Inter-commodity Spread Rates						
AEP DAYTON HUB PEAK MONTHLY (NYM-VM - CME) vs HENRY HUB NATURAL GAS (NYM-NG, NN, HP)						
Spread Credit Rate	Decrease	+1:-1	45%	45%	30%	30%
AEP-DAYTON HUB MONTHLY ELECTRICITY FUTURES - PEAK (NYM-VM - CME) vs PJM FINANCIALLY SETTLED MONTHLY FUTURES - PEAK (NYM-JM - CME)						
Spread Credit Rate	Decrease	+1:-1	70%	70%	40%	40%
AEP-DAYTON HUB OFF-PEAK MONTHLY SWAP (NYM-VP - CME) vs HENRY HUB NATURAL GAS (NYM-NG, NN, HP)						
Spread Credit Rate	Decrease	+1:-1	45%	45%	30%	30%
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	Decrease	+1:-1	75%	75%	40%	40%
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	Decrease	+1:-1	75%	75%	40%	40%
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	65%	65%	90%	90%
CIN HUB 5MW REAL TIME PEAK (NYM-H3 - CME) vs PJM AD HUB 5MW REAL TIME PEAK (NYM-Z9 - CME)						
Spread Credit Rate	Decrease	+1:-1	75%	75%	40%	40%
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	Decrease	+1:-1	70%	70%	40%	40%
CINERGY HUB OFF-PEAK CALENDAR-MONTH LMP SWAP (NYM-EJ - CME) vs AEP-DAYTON HUB OFF-PEAK MONTHLY SWAP (NYM-VP - CME)						
Spread Credit Rate	Decrease	+1:-1	30%	30%	0%	0%
CINERGY HUB OFF-PEAK CALENDAR-MONTH LMP SWAP (NYM-EJ - CME) vs PJM OFF-PEAK LMP SWAP (NYM-JP - CME)						
Spread Credit Rate	Decrease	+1:-1	35%	35%	0%	0%
CINERGY HUB PEAK (NYM-EM - CME) vs AEP-DAYTON HUB MONTHLY ELECTRICITY FUTURES - PEAK (NYM-VM - CME)						
Spread Credit Rate	Decrease	+1:-1	75%	75%	60%	60%
CINERGY HUB PEAK (NYM-EM - CME) vs PJM FINANCIALLY SETTLED MONTHLY FUTURES - PEAK (NYM-JM - CME)						
Spread Credit Rate	Decrease	+1:-1	75%	75%	40%	40%
HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs MIDWEST ISO CINERGY HUB 5 MW PEAK CALENDAR-MONTH DAY-AHEAD SWAP FUTURES (NY-H5 - CME)						
Spread Credit Rate	Decrease	+1:-11	45%	45%	0%	0%
HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs MIDWEST ISO ILLINOIS HUB 5 MW PEAK CALENDAR-MONTH DAY-AHEAD SWAP FUTURES (NY-4Q - CME)						
Spread Credit Rate	Decrease	+1:-11	35%	35%	0%	0%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs NYISO ZONE A 5 MW OFF-PEAK CALENDAR-MONTH DAY-AHEAD LBMP SWAP FUTURES (NY-K4 - CME)						
Spread Credit Rate	Decrease	+1:-194	50%	50%	30%	30%
HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs NYISO ZONE A OFF-PEAK LBMP SWAP FUTURES (NY-KB - CME)						
Spread Credit Rate	Decrease	+1:-1	40%	40%	0%	0%
HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs NYISO ZONE C 5 MW OFF-PEAK CALENDAR-MONTH DAY-AHEAD LBMP SWAP FUTURES (NY-A3 - CME)						
Spread Credit Rate	Decrease	+1:-194	50%	50%	30%	30%
HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs NYISO ZONE C 5 MW PEAK CALENDAR-MONTH DAY-AHEAD LBMP SWAP FUTURES (NY-Q5 - CME)						
Spread Credit Rate	Decrease	+1:-11	15%	15%	0%	0%
HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs NYISO ZONE G 5 MW OFF-PEAK CALENDAR-MONTH DAY-AHEAD LBMP SWAP FUTURES (NY-D2 - CME)						
Spread Credit Rate	Decrease	+1:-194	45%	45%	30%	30%
HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs NYISO ZONE G OFF-PEAK LBMP SWAP FUTURES (NY-KH - CME)						
Spread Credit Rate	Decrease	+1:-1	30%	30%	0%	0%
HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs NYISO ZONE J 5 MW OFF-PEAK CALENDAR-MONTH DAY-AHEAD LBMP SWAP FUTURES (NY-D4 - CME)						
Spread Credit Rate	Decrease	+1:-194	50%	50%	30%	30%
HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs NYISO ZONE J OFF-PEAK LBMP SWAP FUTURES (NY-KK - CME)						
Spread Credit Rate	Decrease	+1:-1	30%	30%	0%	0%
HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs PJM AECO ZONE OFF-PEAK CALENDAR-MONTH DAY-AHEAD LMP SWAP FUTURES (NY-X1 - CME)						
Spread Credit Rate	Decrease	+1:-194	60%	60%	30%	30%
HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs PJM AECO ZONE PEAK CALENDAR-MONTH DAY-AHEAD LMP SWAP FUTURES (NY-Y1 - CME)						
Spread Credit Rate	Decrease	+1:-11	50%	50%	30%	30%
HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs PJM AEP DAYTON HUB OFF-PEAK CALENDAR-MONTH DAY-AHEAD LMP SWAP FUTURES (NY-R7 - CME)						
Spread Credit Rate	Decrease	+1:-194	50%	50%	0%	0%
HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs PJM AEP DAYTON HUB PEAK CALENDAR-MONTH DAY-AHEAD LMP SWAP FUTURES (NY-D7 - CME)						
Spread Credit Rate	Decrease	+1:-11	45%	45%	0%	0%
HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs PJM APS ZONE OFF-PEAK CALENDAR-MONTH DAY-AHEAD LMP SWAP FUTURES (NY-W4 - CME)						
Spread Credit Rate	Decrease	+1:-194	65%	65%	30%	30%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs PJM APS ZONE PEAK CALENDAR-MONTH DAY-AHEAD LMP SWAP FUTURES (NY-S4 - CME)						
Spread Credit Rate	Decrease	+1:-11	15%	15%	0%	0%
HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs PJM BGE ZONE OFF-PEAK CALENDAR-MONTH DAY-AHEAD LMP SWAP FUTURES (NY-R3 - CME)						
Spread Credit Rate	Decrease	+1:-194	60%	60%	30%	30%
HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs PJM BGE ZONE PEAK CALENDAR-MONTH DAY-AHEAD LMP SWAP FUTURES (NY-E3 - CME)						
Spread Credit Rate	Decrease	+1:-11	55%	55%	30%	30%
HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs PJM COMED ZONE 5 MW PEAK CALENDAR-MONTH DAY-AHEAD LMP SWAP FUTURES (NY-D8 - CME)						
Spread Credit Rate	Decrease	+1:-11	50%	50%	30%	30%
HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs PJM DPL ZONE OFF-PEAK CALENDAR-MONTH DAY-AHEAD LMP SWAP FUTURES (NY-E8 - CME)						
Spread Credit Rate	Decrease	+1:-194	60%	60%	30%	30%
HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs PJM DUQUESNE ZONE 5 MW OFF-PEAK CALENDAR-MONTH DAY-AHEAD LMP SWAP FUTURES (NY-D6 - CME)						
Spread Credit Rate	Decrease	+1:-194	45%	45%	0%	0%
HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs PJM DUQUESNE ZONE 5 MW PEAK CALENDAR-MONTH DAY-AHEAD LMP SWAP FUTURES (NY-D5 - CME)						
Spread Credit Rate	Decrease	+1:-11	40%	40%	0%	0%
HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs PJM EASTERN HUB OFF-PEAK CALENDAR-MONTH DAY-AHEAD LMP SWAP FUTURES (NY-F4 - CME)						
Spread Credit Rate	Decrease	+1:-194	55%	55%	30%	30%
HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs PJM EASTERN HUB PEAK CALENDAR-MONTH DAY-AHEAD LMP SWAP FUTURES (NY-E9 - CME)						
Spread Credit Rate	Decrease	+1:-11	60%	60%	0%	0%
HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs PJM JCPL ZONE OFF-PEAK CALENDAR-MONTH DAY-AHEAD LMP SWAP FUTURES (NY-F2 - CME)						
Spread Credit Rate	Decrease	+1:-194	65%	65%	30%	30%
HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs PJM JCPL ZONE PEAK CALENDAR-MONTH DAY-AHEAD LMP SWAP FUTURES (NY-J2 - CME)						
Spread Credit Rate	Decrease	+1:-11	45%	45%	0%	0%
HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs PJM NORTHERN ILLINOIS HUB OFF-PEAK CALENDAR-MONTH DAY-AHEAD LMP SWAP FUTURES (NY-L3 - CME)						
Spread Credit Rate	Decrease	+1:-194	65%	65%	30%	30%
HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs PJM NORTHERN ILLINOIS HUB PEAK CALENDAR-MONTH DAY-AHEAD LMP SWAP FUTURES (NY-N3 - CME)						
Spread Credit Rate	Decrease	+1:-11	50%	50%	30%	30%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs PJM PEAK CALENDAR-MONTH LMP SWAP FUTURES (NY-JM - CME)						
Spread Credit Rate	Decrease	+1:-1	65%	65%	50%	50%
HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs PJM PECO ZONE 5 MW OFF-PEAK CALENDAR-MONTH DAY-AHEAD LMP SWAP FUTURES (NY-4P - CME)						
Spread Credit Rate	Decrease	+1:-194	60%	60%	30%	30%
HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs PJM PECO ZONE 5 MW PEAK CALENDAR-MONTH DAY-AHEAD LMP SWAP FUTURES (NY-4N - CME)						
Spread Credit Rate	Decrease	+1:-11	55%	55%	30%	30%
HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs PJM PEPCO ZONE OFF-PEAK CALENDAR-MONTH DAY-AHEAD LMP SWAP FUTURES (NY-Q8 - CME)						
Spread Credit Rate	Decrease	+1:-194	50%	50%	0%	0%
HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs PJM PEPCO ZONE PEAK CALENDAR-MONTH DAY-AHEAD LMP SWAP FUTURES (NY-R8 - CME)						
Spread Credit Rate	Decrease	+1:-11	55%	55%	30%	30%
HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs PJM PPL ZONE OFF-PEAK CALENDAR-MONTH DAY-AHEAD LMP SWAP FUTURES (NY-F5 - CME)						
Spread Credit Rate	Decrease	+1:-194	60%	60%	30%	30%
HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs PJM PPL ZONE PEAK CALENDAR-MONTH DAY-AHEAD LMP SWAP FUTURES (NY-L5 - CME)						
Spread Credit Rate	Decrease	+1:-11	50%	50%	30%	30%
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	Decrease	+1:-1	50%	50%	30%	30%
MIDWEST ISO CINERGY HUB 5 MW PEAK CALENDAR-MONTH DAY-AHEAD SWAP FUTURES (NY-H5 - CME) vs MIDWEST ISO INDIANA HUB 5 MW PEAK CALENDAR-MONTH DAY-AHEAD SWAP FUTURES (NY-PDM - CME)						
Spread Credit Rate	New	+1:-1			35%	35%
Spread Credit Rate	Increase	+1:-1	35%	35%	70%	70%
MIDWEST ISO CINERGY HUB 5 MW PEAK CALENDAR-MONTH REAL-TIME SWAP FUTURES (NY-H3 - CME) vs HENRY HUB NATURAL GAS FUTURES (NY-NG - CME)						
Spread Credit Rate	Decrease	-11:+1	45%	45%	0%	0%
MIDWEST ISO CINERGY HUB OFF-PEAK LMP SWAP FUTURES (NY-EJ - CME) vs MIDWEST ISO CINERGY HUB 5MW OFF-PEAK CALENDAR-MONTH DAY-AHEAD SWAP FUTURES (NY-K2 - CME)						
Spread Credit Rate	Decrease	+1:-194	95%	95%	85%	85%
MIDWEST ISO CINERGY HUB PEAK CALENDAR-MONTH LMP SWAP FUTURES (NY-EM - CME) vs HENRY HUB NATURAL GAS FUTURES (NY-NG - CME)						
Spread Credit Rate	Decrease	+1:-1	45%	45%	0%	0%
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	Decrease	+1:-1	50%	50%	30%	30%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
NORTHERN ILLINOIS HUB MONTHLY ELECTRICITY FUTURES (NYM-UM - CME) vs PJM FINANCIALLY SETTLED MONTHLY FUTURES - PEAK (NYM-JM - CME)						
Spread Credit Rate	Decrease	+1:-1	75%	75%	55%	55%
NORTHERN ILLINOIS HUB PEAK MONTHLY SWAP (NYM-UM - CME) vs AEP DAYTON HUB PEAK MONTHLY (NYM-VM - CME)						
Spread Credit Rate	Increase	+1:-1	70%	70%	85%	85%
NORTHERN ILLINOIS HUB PEAK MONTHLY SWAP (NYM-UM - CME) vs HENRY HUB NATURAL GAS (NYM-NG, NN, HP)						
Spread Credit Rate	Decrease	+1:-1	65%	65%	40%	40%
NORTHERN ILLINOIS OFF-PEAK MONTHLY SWAP (NYM-UO - CME) vs HENRY HUB NATURAL GAS (NYM-NG, NN, HP)						
Spread Credit Rate	Decrease	+1:-1	45%	45%	30%	30%
NYISO ZONE A 5MW DAY AHEAD OFF PEAK (NYM-K4 - CME) vs NYISO ZONE J 5MW DAY AHEAD OFF PEAK (NYM-D4 - CME)						
Spread Credit Rate	Decrease	+1:-1	45%	45%	30%	30%
NYISO ZONE A OFF-PEAK MONTHLY (NYM-KB - CME) vs NYISO ZONE G OFF-PEAK MONTHLY SWAP (NYM-KH - CME)						
Spread Credit Rate	Decrease	+1:-1	60%	60%	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	Decrease	+1:-1	60%	60%	40%	40%
NYISO ZONE A PEAK MONTHLY SWAP (NYM-KA - CME) vs PJM WESTERN HUB PEAK CALENDAR-MONTH REAL-TIME LMP SWAP (NYM-L1 - CME)						
Spread Credit Rate	Decrease	+1:-5	60%	60%	50%	50%
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	Decrease	+1:-1	50%	50%	30%	30%
NYISO ZONE G 5MW DAY AHEAD OFF PEAK (NYM-D2 - CME) vs NYISO ZONE A 5MW DAY AHEAD OFF PEAK (NYM-K4 - CME)						
Spread Credit Rate	Decrease	+1:-1	50%	50%	30%	30%
NYISO ZONE G 5MW DAY AHEAD OFF PEAK (NYM-D2 - CME) vs NYISO ZONE J 5MW DAY AHEAD OFF PEAK (NYM-D4 - CME)						
Spread Credit Rate	Decrease	+1:-1	80%	80%	60%	60%
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	Decrease	+1:-1	45%	45%	30%	30%
NYISO ZONE J 5MW DAY AHEAD OFF PEAK (NYM-D4 - CME) vs NYISO ZONE C 5 MW DAY AHEAD OFF PEAK (NYM-A3 - CME)						
Spread Credit Rate	Decrease	+1:-1	60%	60%	40%	40%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
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	Decrease	+1:-1	50%	50%	30%	30%
NYISO ZONE J PEAK LBMP SWAP FUTURES (NY-KJ - CME) vs HENRY HUB NATURAL GAS FUTURES (NY-NG - CME)						
Spread Credit Rate	Decrease	+2:-1	10%	10%	0%	0%
ONTARIO OFF-PEAK CALENDAR-MONTH SWAP FUTURES (NY-OFM - CME) vs NYISO ZONE A OFF-PEAK LBMP SWAP FUTURES (NY-KB - CME)						
Spread Credit Rate	Decrease	+194:-1	30%	30%	0%	0%
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	Decrease	+1:-1	80%	80%	40%	40%
PJM AEP DAYTON HUB 5 MW OFF-PEAK CALENDAR-MONTH REAL-TIME LMP SWAP FUTURES (NY-V3 - CME) vs HENRY HUB NATURAL GAS FUTURES (NY-NG - CME)						
Spread Credit Rate	Decrease	-194:+1	40%	40%	0%	0%
PJM AEP DAYTON HUB 5MW PEAK CALENDAR-MONTH REAL-TIME LMP SWAP FUTURES (NY-Z9 - CME) vs HENRY HUB NATURAL GAS FUTURES (NY-NG - CME)						
Spread Credit Rate	Decrease	-11:+1	45%	45%	0%	0%
PJM AEP DAYTON HUB OFF-PEAK CALENDAR-MONTH DAY-AHEAD LMP SWAP FUTURES (NY-R7 - CME) vs PJM AEP DAYTON HUB OFF-PEAK LMP SWAP FUTURES (NY-VP - CME)						
Spread Credit Rate	Decrease	+194:-1	90%	90%	65%	65%
PJM AEP DAYTON HUB PEAK CALENDAR-MONTH DAY-AHEAD LMP SWAP (NYM-D7 - CME) vs PJM NORTHERN ILLINOIS HUB PEAK CALENDAR-MONTH DAY-AHEAD SWAP (NYM-N3 - CME)						
Spread Credit Rate	Decrease	+1:-1	75%	75%	40%	40%
PJM DUQUESNE 5MW DAY AHEAD OFF PEAK (NYM-D6 - CME) vs PJM WESTERN HUB OFF-PEAK CALENDAR-MONTH DAY-AHEAD (NYM-E4 - CME)						
Spread Credit Rate	Decrease	+1:-1	55%	55%	40%	40%
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	Decrease	+1:-1	65%	65%	40%	40%
PJM NI HUB 5 MW REAL TIME OFF-PEAK (NYM-B6 - CME) vs CINERGY HUB 5 MW OFF-PEAK CALENDAR-MONTH REAL-TIME SWAP (NYM-H4 - CME)						
Spread Credit Rate	Decrease	+1:-1	75%	75%	40%	40%
PJM NI HUB 5MW REAL TIME O PK (NY-B6) vs MID IND TRAN SO IL HUB5MW OFFP (NY-4R)						
Spread Credit Rate	Decrease	+1:-1	65%	65%	40%	40%
Spread Credit Rate	Decrease	+1:-1	65%	65%	40%	40%
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%	40%	40%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
PJM NI HUB 5MW REAL TIME PEAK (NYM-B3 - CME) vs PJM WESTERN HUB PEAK CALENDAR-MONTH REAL-TIME LMP (NYM-L1 - CME)						
Spread Credit Rate	Decrease	+1:-1	80%	80%	40%	40%
PJM NI HUB 5MW REAL TIME PK (NY-B3) vs MID IND TRAN SO IL HUB5MW PEAK (NY-4Q)						
Spread Credit Rate	Decrease	+1:-1	75%	75%	40%	40%
Spread Credit Rate	Decrease	+1:-1	75%	75%	40%	40%
PJM NORTHERN ILLINOIS HUB 5 MW OFF-PEAK CALENDAR-MONTH REAL-TIME LMP SWAP FUTURES (NY-B6 - CME) vs HENRY HUB NATURAL GAS FUTURES (NY-NG - CME)						
Spread Credit Rate	Decrease	+194:-1	60%	60%	30%	30%
PJM NORTHERN ILLINOIS HUB 5 MW PEAK REAL-TIME CALENDAR-MONTH LMP SWAP (NYM-B3 - CME) vs HENRY HUB NATURAL GAS (NYM-NG, NN, HP)						
Spread Credit Rate	Decrease	+11:-1	50%	50%	30%	30%
PJM NORTHERN ILLINOIS HUB OFF-PEAK CALENDAR-MONTH DAY-AHEAD LMP SWAP FUTURES (NY-L3 - CME) vs PJM NORTHERN ILLINOIS HUB OFF-PEAK LMP SWAP FUTURES (NY-UO - CME)						
Spread Credit Rate	Decrease	+194:-1	90%	90%	70%	70%
PJM OFF-PEAK CALENDAR-MONTH LMP SWAP FUTURES (NY-JP - CME) vs HENRY HUB NATURAL GAS FUTURES (NY-NG - CME)						
Spread Credit Rate	Decrease	+1:-1	50%	50%	35%	35%
PJM OFF-PEAK CALENDAR-MONTH LMP SWAP FUTURES (NY-JP - CME) vs PJM WESTERN HUB OFF-PEAK CALENDAR-MONTH DAY-AHEAD LMP SWAP FUTURES (NY-E4 - CME)						
Spread Credit Rate	Decrease	+1:-200	85%	85%	40%	40%
PJM OFF-PEAK LMP SWAP (NYM-JP - CME) vs AEP-DAYTON HUB OFF-PEAK MONTHLY SWAP (NYM-VP - CME)						
Spread Credit Rate	Decrease	+1:-1	45%	45%	0%	0%
PJM OFF-PEAK LMP SWAP (NYM-JP - CME) vs ISO NEW ENGLAND OFF-PEAK LMP MONTHLY SWAP (NYM-KI - CME)						
Spread Credit Rate	Decrease	+1:-1	55%	55%	40%	40%
PJM OFF-PEAK LMP SWAP (NYM-JP - CME) vs NORTHERN ILLINOIS OFF-PEAK MONTHLY SWAP (NYM-UO - CME)						
Spread Credit Rate	Decrease	+1:-1	75%	75%	40%	40%
PJM OFF-PEAK LMP SWAP (NYM-JP - CME) vs NYISO ZONE G OFF-PEAK MONTHLY SWAP (NYM-KH - CME)						
Spread Credit Rate	Decrease	+1:-1	60%	60%	40%	40%
PJM OFF-PEAK LMP SWAP (NYM-JP - CME) vs NYISO ZONE J OFF-PEAK MONTHLY SWAP (NYM-KK - CME)						
Spread Credit Rate	Decrease	+1:-1	60%	60%	40%	40%
PJM PEAK CALENDAR-MONTH LMP SWAP FUTURES (NY-JM - CME) vs MIDWEST ISO CINERGY HUB OFF-PEAK LMP SWAP FUTURES (NY-EJ - CME)						
Spread Credit Rate	Decrease	+1:-1	60%	60%	40%	40%
PJM PEPCO ZONE OFF-PEAK CALENDAR-MONTH DAY-AHEAD LMP SWAP (NYM-Q8 - CME) vs PJM PSEG ZONE OFF-PEAK CALENDAR-MONTH DAY-AHEAD LMP SWAP (NYM-W6 - CME)						
Spread Credit Rate	Decrease	+1:-1	85%	85%	40%	40%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
PJM PEPCO ZONE PEAK CALENDAR-MONTH DAY-AHEAD LMP SWAP (NYM-R8 - CME) vs PJM PSEG ZONE PEAK CALENDAR-MONTH DAY-AHEAD LMP SWAP (NYM-L6 - CME)						
Spread Credit Rate	Decrease	+1:-1	45%	45%	0%	0%
PJM PSEG ZONE OFF-PEAK CALENDAR-MONTH DAY-AHEAD LMP SWAP (NYM-W6 - CME) vs HENRY HUB NATURAL GAS (NYM-NG, NN, HP)						
Spread Credit Rate	Decrease	-194:+1	60%	60%	30%	30%
PJM PSEG ZONE PEAK CALENDAR-MONTH DAY-AHEAD LMP SWAP FUTURES (NY-L6 - CME) vs HENRY HUB NATURAL GAS FUTURES (NY-NG - CME)						
Spread Credit Rate	Decrease	+11:-1	45%	45%	0%	0%
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	Decrease	+1:-1	85%	85%	50%	50%
PJM WESTERN HUB OFF-PEAK CALENDAR-MONTH DAY-AHEAD (NYM-E4 - CME) vs PJM APS ZONE OFF-PEAK CALENDAR-MONTH DAY-AHEAD LMP (NYM-W4 - CME)						
Spread Credit Rate	Increase	+1:-1	55%	55%	85%	85%
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	Decrease	+1:-1	75%	75%	40%	40%
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	30%	30%	85%	85%
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	Decrease	+1:-1	75%	75%	40%	40%
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	Decrease	+1:-1	85%	85%	40%	40%
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	Decrease	+1:-1	85%	85%	40%	40%
PJM WESTERN HUB OFF-PEAK CALENDAR-MONTH DAY-AHEAD LMP SWAP (NYM-E4 - CME) vs HENRY HUB NATURAL GAS (NYM-NG, NN, HP)						
Spread Credit Rate	Decrease	+194:-1	60%	60%	30%	30%
PJM WESTERN HUB OFF-PEAK CALENDAR-MONTH REAL-TIME LMP SWAP (NYM-N9 - CME) vs HENRY HUB NATURAL GAS (NYM-NG, NN, HP)						
Spread Credit Rate	Decrease	+194:-1	60%	60%	30%	30%
PJM WESTERN HUB PEAK CALENDAR-MONTH DAY-AHEAD LMP (NYM-J4 - CME) vs PJM AECO ZONE PEAK CALENDAR-MONTH DAY-AHEAD LMP (NYM-Y1 - CME)						
Spread Credit Rate	Decrease	+1:-1	70%	70%	40%	40%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
PJM WESTERN HUB PEAK CALENDAR-MONTH DAY-AHEAD LMP (NYM-J4 - CME) vs PJM AEP DAYTON HUB PEAK CALENDAR-MONTH DAY-AHEAD L (NYM-D7 - CME)						
Spread Credit Rate	Decrease	+1:-1	75%	75%	40%	40%
PJM WESTERN HUB PEAK CALENDAR-MONTH DAY-AHEAD LMP (NYM-J4 - CME) vs PJM APS ZONE PEAK CALENDAR-MONTH DAY-AHEAD LMP (NYM-S4 - CME)						
Spread Credit Rate	Increase	+1:-1	30%	30%	85%	85%
PJM WESTERN HUB PEAK CALENDAR-MONTH DAY-AHEAD LMP (NYM-J4 - CME) vs PJM BGE ZONE PEAK CALENDAR-MONTH DAY-AHEAD LMP (NYM-E3 - CME)						
Spread Credit Rate	Increase	+1:-1	75%	75%	85%	85%
PJM WESTERN HUB PEAK CALENDAR-MONTH DAY-AHEAD LMP (NYM-J4 - CME) vs PJM COM-ED 5MW DAY AHEAD PEAK (NYM-D8 - CME)						
Spread Credit Rate	Decrease	+1:-1	65%	65%	40%	40%
PJM WESTERN HUB PEAK CALENDAR-MONTH DAY-AHEAD LMP (NYM-J4 - CME) vs PJM DPL ZONE PEAK CALENDAR-MONTH DAY-AHEAD LMP (NYM-L8 - CME)						
Spread Credit Rate	Increase	+1:-1	70%	70%	85%	85%
PJM WESTERN HUB PEAK CALENDAR-MONTH DAY-AHEAD LMP (NYM-J4 - CME) vs PJM DUQUESNE 5MW DAY AHEAD PEAK (NYM-D5 - CME)						
Spread Credit Rate	Decrease	+1:-1	65%	65%	40%	40%
PJM WESTERN HUB PEAK CALENDAR-MONTH DAY-AHEAD LMP (NYM-J4 - CME) vs PJM EASTERN HUB PEAK CALENDAR-MONTH DAY-AHEAD LMP (NYM-E9 - CME)						
Spread Credit Rate	Decrease	+1:-1	75%	75%	40%	40%
PJM WESTERN HUB PEAK CALENDAR-MONTH DAY-AHEAD LMP (NYM-J4 - CME) vs PJM JCPL ZONE PEAK CALENDAR-MONTH DAY-AHEAD LMP (NYM-J2 - CME)						
Spread Credit Rate	Increase	+1:-1	75%	75%	85%	85%
PJM WESTERN HUB PEAK CALENDAR-MONTH DAY-AHEAD LMP (NYM-J4 - CME) vs PJM NORTHERN ILLINOIS HUB PEAK CALENDAR-MONTH DAY- (NYM-N3 - CME)						
Spread Credit Rate	Decrease	+1:-1	65%	65%	40%	40%
PJM WESTERN HUB PEAK CALENDAR-MONTH DAY-AHEAD LMP (NYM-J4 - CME) vs PJM PEPSCO ZONE PEAK CALENDAR-MONTH DAY-AHEAD LMP (NYM-R8 - CME)						
Spread Credit Rate	Increase	+1:-1	75%	75%	85%	85%
PJM WESTERN HUB PEAK CALENDAR-MONTH DAY-AHEAD LMP (NYM-J4 - CME) vs PJM PSEG ZONE PEAK CALENDAR-MONTH DAY-AHEAD LMP (NYM-L6 - CME)						
Spread Credit Rate	Decrease	+1:-1	65%	65%	40%	40%
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	70%	70%	85%	85%
PJM WESTERN HUB PEAK CALENDAR-MONTH DAY-AHEAD LMP (NYM-J4 - CME) vs PPL ZONE PEAK CALENDAR-MONTH DAY-AHEAD LMP (NYM-L5 - CME)						
Spread Credit Rate	Increase	+1:-1	70%	70%	85%	85%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
PJM WESTERN HUB PEAK CALENDAR-MONTH DAY-AHEAD LMP SWAP FUTURES (NY-J4 - CME) vs HENRY HUB NATURAL GAS FUTURES (NY-NG - CME)						
Spread Credit Rate	Decrease	-11:+1	45%	45%	0%	0%
PJM WESTERN HUB PEAK CALENDAR-MONTH DAY-AHEAD LMP SWAP FUTURES (NY-J4 - CME) vs PJM METED ZONE PEAK CALENDAR-MONTH DAY-AHEAD LMP SWAP FUTURES (NY-47 - CME)						
Spread Credit Rate	Increase	+1:-1	65%	65%	85%	85%
PJM WESTERN HUB PEAK CALENDAR-MONTH REAL-TIME LMP SWAP FUTURES (NY-L1 - CME) vs HENRY HUB NATURAL GAS FUTURES (NY-NG - CME)						
Spread Credit Rate	Decrease	-11:+1	50%	50%	30%	30%

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						
AEP DAYTON HUB PEAK MONTHLY (NYM-VM - CME) vs HENRY HUB NATURAL GAS (NYM-NG, NN, HP)						
Spread Credit Rate	Decrease	+1:-1	45%	45%	30%	30%
AEP-DAYTON HUB OFF-PEAK MONTHLY SWAP (NYM-VP - CME) vs HENRY HUB NATURAL GAS (NYM-NG, NN, HP)						
Spread Credit Rate	Decrease	+1:-1	45%	45%	30%	30%
HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs MIDWEST ISO CINERGY HUB 5 MW PEAK CALENDAR-MONTH DAY-AHEAD SWAP FUTURES (NY-H5 - CME)						
Spread Credit Rate	Decrease	+1:-11	45%	45%	0%	0%
HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs MIDWEST ISO ILLINOIS HUB 5 MW PEAK CALENDAR-MONTH DAY-AHEAD SWAP FUTURES (NY-4Q - CME)						
Spread Credit Rate	Decrease	+1:-11	35%	35%	0%	0%
HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs NYISO ZONE A 5 MW OFF-PEAK CALENDAR-MONTH DAY-AHEAD LBMP SWAP FUTURES (NY-K4 - CME)						
Spread Credit Rate	Decrease	+1:-194	50%	50%	30%	30%
HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs NYISO ZONE A OFF-PEAK LBMP SWAP FUTURES (NY-KB - CME)						
Spread Credit Rate	Decrease	+1:-1	40%	40%	0%	0%
HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs NYISO ZONE C 5 MW OFF-PEAK CALENDAR-MONTH DAY-AHEAD LBMP SWAP FUTURES (NY-A3 - CME)						
Spread Credit Rate	Decrease	+1:-194	50%	50%	30%	30%
HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs NYISO ZONE C 5 MW PEAK CALENDAR-MONTH DAY-AHEAD LBMP SWAP FUTURES (NY-Q5 - CME)						
Spread Credit Rate	Decrease	+1:-11	15%	15%	0%	0%
HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs NYISO ZONE G 5 MW OFF-PEAK CALENDAR-MONTH DAY-AHEAD LBMP SWAP FUTURES (NY-D2 - CME)						
Spread Credit Rate	Decrease	+1:-194	45%	45%	30%	30%
HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs NYISO ZONE G OFF-PEAK LBMP SWAP FUTURES (NY-KH - CME)						
Spread Credit Rate	Decrease	+1:-1	30%	30%	0%	0%
HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs NYISO ZONE J 5 MW OFF-PEAK CALENDAR-MONTH DAY-AHEAD LBMP SWAP FUTURES (NY-D4 - CME)						
Spread Credit Rate	Decrease	+1:-194	50%	50%	30%	30%
HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs NYISO ZONE J OFF-PEAK LBMP SWAP FUTURES (NY-KK - CME)						
Spread Credit Rate	Decrease	+1:-1	30%	30%	0%	0%
HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs PJM AECO ZONE OFF-PEAK CALENDAR-MONTH DAY-AHEAD LMP SWAP FUTURES (NY-X1 - CME)						
Spread Credit Rate	Decrease	+1:-194	60%	60%	30%	30%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs PJM AECO ZONE PEAK CALENDAR-MONTH DAY-AHEAD LMP SWAP FUTURES (NY-Y1 - CME)						
Spread Credit Rate	Decrease	+1:-11	50%	50%	30%	30%
HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs PJM AEP DAYTON HUB OFF-PEAK CALENDAR-MONTH DAY-AHEAD LMP SWAP FUTURES (NY-R7 - CME)						
Spread Credit Rate	Decrease	+1:-194	50%	50%	0%	0%
HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs PJM AEP DAYTON HUB PEAK CALENDAR-MONTH DAY-AHEAD LMP SWAP FUTURES (NY-D7 - CME)						
Spread Credit Rate	Decrease	+1:-11	45%	45%	0%	0%
HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs PJM APS ZONE OFF-PEAK CALENDAR-MONTH DAY-AHEAD LMP SWAP FUTURES (NY-W4 - CME)						
Spread Credit Rate	Decrease	+1:-194	65%	65%	30%	30%
HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs PJM APS ZONE PEAK CALENDAR-MONTH DAY-AHEAD LMP SWAP FUTURES (NY-S4 - CME)						
Spread Credit Rate	Decrease	+1:-11	15%	15%	0%	0%
HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs PJM BGE ZONE OFF-PEAK CALENDAR-MONTH DAY-AHEAD LMP SWAP FUTURES (NY-R3 - CME)						
Spread Credit Rate	Decrease	+1:-194	60%	60%	30%	30%
HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs PJM BGE ZONE PEAK CALENDAR-MONTH DAY-AHEAD LMP SWAP FUTURES (NY-E3 - CME)						
Spread Credit Rate	Decrease	+1:-11	55%	55%	30%	30%
HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs PJM COMED ZONE 5 MW PEAK CALENDAR-MONTH DAY-AHEAD LMP SWAP FUTURES (NY-D8 - CME)						
Spread Credit Rate	Decrease	+1:-11	50%	50%	30%	30%
HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs PJM DPL ZONE OFF-PEAK CALENDAR-MONTH DAY-AHEAD LMP SWAP FUTURES (NY-E8 - CME)						
Spread Credit Rate	Decrease	+1:-194	60%	60%	30%	30%
HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs PJM DUQUESNE ZONE 5 MW OFF-PEAK CALENDAR-MONTH DAY-AHEAD LMP SWAP FUTURES (NY-D6 - CME)						
Spread Credit Rate	Decrease	+1:-194	45%	45%	0%	0%
HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs PJM DUQUESNE ZONE 5 MW PEAK CALENDAR-MONTH DAY-AHEAD LMP SWAP FUTURES (NY-D5 - CME)						
Spread Credit Rate	Decrease	+1:-11	40%	40%	0%	0%
HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs PJM EASTERN HUB OFF-PEAK CALENDAR-MONTH DAY-AHEAD LMP SWAP FUTURES (NY-F4 - CME)						
Spread Credit Rate	Decrease	+1:-194	55%	55%	30%	30%
HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs PJM EASTERN HUB PEAK CALENDAR-MONTH DAY-AHEAD LMP SWAP FUTURES (NY-E9 - CME)						
Spread Credit Rate	Decrease	+1:-11	60%	60%	0%	0%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs PJM JCPL ZONE OFF-PEAK CALENDAR-MONTH DAY-AHEAD LMP SWAP FUTURES (NY-F2 - CME)						
Spread Credit Rate	Decrease	+1:-194	65%	65%	30%	30%
HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs PJM JCPL ZONE PEAK CALENDAR-MONTH DAY-AHEAD LMP SWAP FUTURES (NY-J2 - CME)						
Spread Credit Rate	Decrease	+1:-11	45%	45%	0%	0%
HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs PJM NORTHERN ILLINOIS HUB OFF-PEAK CALENDAR-MONTH DAY-AHEAD LMP SWAP FUTURES (NY-L3 - CME)						
Spread Credit Rate	Decrease	+1:-194	65%	65%	30%	30%
HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs PJM NORTHERN ILLINOIS HUB PEAK CALENDAR-MONTH DAY-AHEAD LMP SWAP FUTURES (NY-N3 - CME)						
Spread Credit Rate	Decrease	+1:-11	50%	50%	30%	30%
HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs PJM PEAK CALENDAR-MONTH LMP SWAP FUTURES (NY-JM - CME)						
Spread Credit Rate	Decrease	+1:-1	65%	65%	50%	50%
HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs PJM PECO ZONE 5 MW OFF-PEAK CALENDAR-MONTH DAY-AHEAD LMP SWAP FUTURES (NY-4P - CME)						
Spread Credit Rate	Decrease	+1:-194	60%	60%	30%	30%
HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs PJM PECO ZONE 5 MW PEAK CALENDAR-MONTH DAY-AHEAD LMP SWAP FUTURES (NY-4N - CME)						
Spread Credit Rate	Decrease	+1:-11	55%	55%	30%	30%
HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs PJM PEPSCO ZONE OFF-PEAK CALENDAR-MONTH DAY-AHEAD LMP SWAP FUTURES (NY-Q8 - CME)						
Spread Credit Rate	Decrease	+1:-194	50%	50%	0%	0%
HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs PJM PEPSCO ZONE PEAK CALENDAR-MONTH DAY-AHEAD LMP SWAP FUTURES (NY-R8 - CME)						
Spread Credit Rate	Decrease	+1:-11	55%	55%	30%	30%
HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs PJM PPL ZONE OFF-PEAK CALENDAR-MONTH DAY-AHEAD LMP SWAP FUTURES (NY-F5 - CME)						
Spread Credit Rate	Decrease	+1:-194	60%	60%	30%	30%
HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs PJM PPL ZONE PEAK CALENDAR-MONTH DAY-AHEAD LMP SWAP FUTURES (NY-L5 - CME)						
Spread Credit Rate	Decrease	+1:-11	50%	50%	30%	30%
MIDWEST ISO CINERGY HUB 5 MW PEAK CALENDAR-MONTH REAL-TIME SWAP FUTURES (NY-H3 - CME) vs HENRY HUB NATURAL GAS FUTURES (NY-NG - CME)						
Spread Credit Rate	Decrease	-11:+1	45%	45%	0%	0%
MIDWEST ISO CINERGY HUB PEAK CALENDAR-MONTH LMP SWAP FUTURES (NY-EM - CME) vs HENRY HUB NATURAL GAS FUTURES (NY-NG - CME)						
Spread Credit Rate	Decrease	+1:-1	45%	45%	0%	0%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
NORTHERN ILLINOIS HUB PEAK MONTHLY SWAP (NYM-UM - CME) vs HENRY HUB NATURAL GAS (NYM-NG, NN, HP)						
Spread Credit Rate	Decrease	+1:-1	65%	65%	40%	40%
NORTHERN ILLINOIS OFF-PEAK MONTHLY SWAP (NYM-UO - CME) vs HENRY HUB NATURAL GAS (NYM-NG, NN, HP)						
Spread Credit Rate	Decrease	+1:-1	45%	45%	30%	30%
NYISO ZONE J PEAK LBMP SWAP FUTURES (NY-KJ - CME) vs HENRY HUB NATURAL GAS FUTURES (NY-NG - CME)						
Spread Credit Rate	Decrease	+2:-1	10%	10%	0%	0%
PJM AEP DAYTON HUB 5 MW OFF-PEAK CALENDAR-MONTH REAL-TIME LMP SWAP FUTURES (NY-V3 - CME) vs HENRY HUB NATURAL GAS FUTURES (NY-NG - CME)						
Spread Credit Rate	Decrease	-194:+1	40%	40%	0%	0%
PJM AEP DAYTON HUB 5MW PEAK CALENDAR-MONTH REAL-TIME LMP SWAP FUTURES (NY-Z9 - CME) vs HENRY HUB NATURAL GAS FUTURES (NY-NG - CME)						
Spread Credit Rate	Decrease	-11:+1	45%	45%	0%	0%
PJM NORTHERN ILLINOIS HUB 5 MW OFF-PEAK CALENDAR-MONTH REAL-TIME LMP SWAP FUTURES (NY-B6 - CME) vs HENRY HUB NATURAL GAS FUTURES (NY-NG - CME)						
Spread Credit Rate	Decrease	+194:-1	60%	60%	30%	30%
PJM NORTHERN ILLINOIS HUB 5 MW PEAK REAL-TIME CALENDAR-MONTH LMP SWAP (NYM-B3 - CME) vs HENRY HUB NATURAL GAS (NYM-NG, NN, HP)						
Spread Credit Rate	Decrease	+11:-1	50%	50%	30%	30%
PJM OFF-PEAK CALENDAR-MONTH LMP SWAP FUTURES (NY-JP - CME) vs HENRY HUB NATURAL GAS FUTURES (NY-NG - CME)						
Spread Credit Rate	Decrease	+1:-1	50%	50%	35%	35%
PJM PSEG ZONE OFF-PEAK CALENDAR-MONTH DAY-AHEAD LMP SWAP (NYM-W6 - CME) vs HENRY HUB NATURAL GAS (NYM-NG, NN, HP)						
Spread Credit Rate	Decrease	-194:+1	60%	60%	30%	30%
PJM PSEG ZONE PEAK CALENDAR-MONTH DAY-AHEAD LMP SWAP FUTURES (NY-L6 - CME) vs HENRY HUB NATURAL GAS FUTURES (NY-NG - CME)						
Spread Credit Rate	Decrease	+11:-1	45%	45%	0%	0%
PJM WESTERN HUB OFF-PEAK CALENDAR-MONTH DAY-AHEAD LMP SWAP (NYM-E4 - CME) vs HENRY HUB NATURAL GAS (NYM-NG, NN, HP)						
Spread Credit Rate	Decrease	+194:-1	60%	60%	30%	30%
PJM WESTERN HUB OFF-PEAK CALENDAR-MONTH REAL-TIME LMP SWAP (NYM-N9 - CME) vs HENRY HUB NATURAL GAS (NYM-NG, NN, HP)						
Spread Credit Rate	Decrease	+194:-1	60%	60%	30%	30%
PJM WESTERN HUB PEAK CALENDAR-MONTH DAY-AHEAD LMP SWAP FUTURES (NY-J4 - CME) vs HENRY HUB NATURAL GAS FUTURES (NY-NG - CME)						
Spread Credit Rate	Decrease	-11:+1	45%	45%	0%	0%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
PJM WESTERN HUB PEAK CALENDAR-MONTH REAL-TIME LMP SWAP FUTURES (NY-L1 - CME) vs HENRY HUB NATURAL GAS FUTURES (NY-NG - CME)						
Spread Credit Rate	Decrease	-11:+1	50%	50%	30%	30%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	<u>Tier Description</u>	Change	Current Initial	Current Maintenance	New Initial	New Maintenance
Short Option Minimum (SOM) Rate						
INTEREST RATES - Short Option Minimum (SOM) Rate						
U.S. TREASURY BOND (17, 17, 53) - SOM						
Clearing Member Rate		Increase	22.000	20.000	27.500	25.000
ULTRA LONG TREASURY BOND (UBE, UBE) - SOM						
Clearing Member Rate		Increase	22.000	20.000	27.500	25.000

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	<u>Tier Description</u>	Change	Current Initial	Current Maintenance	New Initial	New Maintenance
Volatility Scan (volScan) Rate						
EQUITY INDEX - Volatility Scan (volScan) Rate						
DOW JONES (11, 11, DO, YM, YM) - volScan						
Clearing Member Rate		Increase		0.060		0.070
NASDAQ-100 (7H, DN, ND, ND, NQ, NQ, QN, YH) - volScan						
Clearing Member Rate		Increase		0.060		0.070
S&P 500 (7S, 8A, 8B, ES, ES, EV, EW, SP, SP, YP1) - volScan						
Clearing Member Rate		Increase		0.060		0.070
S&P 500 GROWTH (7G, SG, SG, YG) - volScan						
Clearing Member Rate		Decrease		0.090		0.070
S&P 500 VALUE (7W, SU, SU, Y91) - volScan						
Clearing Member Rate		Increase		0.060		0.070
S&P MIDCAP 400 (8Z, MD, MD, ME, ME, YZ) - volScan						
Clearing Member Rate		Increase		0.060		0.070