



15-048

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

FROM: CME Clearing

SUBJECT: Performance Bond Requirements

DATE: Thursday, February 12, 2015

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>

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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 13, 2015.

Current rates as of:

Thursday, February 12, 2015.

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

COAL - Outright Rates

COAL API2 CIF ARA ARG-MCCLOSKEY FUT (MTF)

MTF	Spec	Mth 2-6	Increase	USD	2,750	2,500	2,970	2,700
MTF	Hedge/Member	Mth 2-6	Increase	USD	2,500	2,500	2,700	2,700

COAL API4 RCH BAY ARGS MCCLOSKEY FUT (MFF)

MFF	Spec	Mnth 1	Increase	USD	2,310	2,100	2,640	2,400
MFF	Hedge/Member	Mnth 1	Increase	USD	2,100	2,100	2,400	2,400
MFF	Spec	Mnth 2-6	Increase	USD	2,310	2,100	2,640	2,400
MFF	Hedge/Member	Mnth 2-6	Increase	USD	2,100	2,100	2,400	2,400

EASTERN RAIL DELIVERY CSX COAL FUT (QX)

QX	Spec	Mths 4-6	Increase	USD	1,870	1,700	2,090	1,900
QX	Hedge/Member	Mths 4-6	Increase	USD	1,700	1,700	1,900	1,900
QX	Spec	Mths 7+	Increase	USD	1,815	1,650	1,980	1,800
QX	Hedge/Member	Mths 7+	Increase	USD	1,650	1,650	1,800	1,800

ELECTRICITY - Outright Rates

AEP-DAYTON HUB OFF-PEAK MONTHLY (VP)

VP	Spec	Mnth 1	Decrease	USD	14,300	13,000	7,700	7,000
VP	Hedge/Member	Mnth 1	Decrease	USD	13,000	13,000	7,000	7,000
VP	Spec	Mnth 2	Decrease	USD	14,300	13,000	7,700	7,000
VP	Hedge/Member	Mnth 2	Decrease	USD	13,000	13,000	7,000	7,000

AER-DAYTON HUB MONTHLY (VM)

VM	Spec	Mnth 1	Decrease	USD	71,500	65,000	44,000	40,000
VM	Hedge/Member	Mnth 1	Decrease	USD	65,000	65,000	40,000	40,000

ALBERTA POWER POOL EXT. PK CAL DAY (AXP)

AXP	Spec		Decrease	CAD	6,600	6,000	5,500	5,000
AXP	Hedge/Member		Decrease	CAD	6,000	6,000	5,000	5,000

ERCOT HSTN 345 KV HUB 5 MW OFFPK S (I2)

I2	Spec	Mnth 1	Decrease	USD	165	150	83	75
I2	Hedge/Member	Mnth 1	Decrease	USD	150	150	75	75
I2	Spec	Mnth 2	Decrease	USD	165	150	83	75
I2	Hedge/Member	Mnth 2	Decrease	USD	150	150	75	75
I2	Spec	Mnths 3-11	Decrease	USD	77	70	39	35
I2	Hedge/Member	Mnths 3-11	Decrease	USD	70	70	35	35
I2	Spec	Mnths 12+	Decrease	USD	77	70	39	35
I2	Hedge/Member	Mnths 12+	Decrease	USD	70	70	35	35

ERCOT HSTN 345 KV HUB 5 MW PEAK FUT (I1)

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
Outright Rates								
I1	Spec	Mnth 1	Decrease	USD	5,940	5,400	3,300	3,000
I1	Hedge/Member	Mnth 1	Decrease	USD	5,400	5,400	3,000	3,000
I1	Spec	Mnth 2	Decrease	USD	2,970	2,700	1,650	1,500
I1	Hedge/Member	Mnth 2	Decrease	USD	2,700	2,700	1,500	1,500
I1	Spec	Mnths 3-11	Decrease	USD	1,540	1,400	770	700
I1	Hedge/Member	Mnths 3-11	Decrease	USD	1,400	1,400	700	700
I1	Spec	Mnths 12+	Decrease	USD	1,540	1,400	770	700
I1	Hedge/Member	Mnths 12+	Decrease	USD	1,400	1,400	700	700
ERCOT HSTN 345 KV HUB DAY AHED PK (EHE)								
EHE	Spec	Mnths 3-11	Decrease	USD	1,760	1,600	825	750
EHE	Hedge/Member	Mnths 3-11	Decrease	USD	1,600	1,600	750	750
ERCOT HSTON 345KV HUB DAY AHD OFFPK (EHP)								
EHP	Spec	Mnth 1	Decrease	USD	165	150	83	75
EHP	Hedge/Member	Mnth 1	Decrease	USD	150	150	75	75
EHP	Spec	Mnth 2	Decrease	USD	154	140	77	70
EHP	Hedge/Member	Mnth 2	Decrease	USD	140	140	70	70
EHP	Spec	Mnths 3-11	Decrease	USD	66	60	33	30
EHP	Hedge/Member	Mnths 3-11	Decrease	USD	60	60	30	30
ERCOT NORTH 345 KV HUB DAY AHEAD PK (ERE)								
ERE	Spec	Mnth 3-11	Decrease	USD	1,760	1,600	825	750
ERE	Hedge/Member	Mnth 3-11	Decrease	USD	1,600	1,600	750	750
ERCOT NORTH 345KV HUB DAY AHD OFFPK (ERU)								
ERU	Spec	Mnth 1	Decrease	USD	138	125	83	75
ERU	Hedge/Member	Mnth 1	Decrease	USD	125	125	75	75
ERU	Spec	Mnth 2	Decrease	USD	110	100	77	70
ERU	Hedge/Member	Mnth 2	Decrease	USD	100	100	70	70
ERU	Spec	Mnths 3-11	Decrease	USD	44	40	28	25
ERU	Hedge/Member	Mnths 3-11	Decrease	USD	40	40	25	25
ERCOT NRTH 345 KV HUB 5 MW PEAK FUT (I5)								
I5	Spec	Mnths 3-11	Decrease	USD	770	700	550	500
I5	Hedge/Member	Mnths 3-11	Decrease	USD	700	700	500	500
I5	Spec	Mnths 12+	Decrease	USD	550	500	330	300
I5	Hedge/Member	Mnths 12+	Decrease	USD	500	500	300	300

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
Outright Rates								
ERCOT SOUTH 345KV HUB DAY AHD OFFPK (ERA)								
ERA	Spec	Mnth 1	Decrease	USD	143	130	83	75
ERA	Hedge/Member	Mnth 1	Decrease	USD	130	130	75	75
ERA	Spec	Mnth 2	Decrease	USD	143	130	77	70
ERA	Hedge/Member	Mnth 2	Decrease	USD	130	130	70	70
ERA	Spec	Mnths 3-11	Decrease	USD	66	60	33	30
ERA	Hedge/Member	Mnths 3-11	Decrease	USD	60	60	30	30
ERCOT SOUTH 345KV HUB DAY AHEAD PK (EUE)								
EUE	Spec	Mnth 3-11	Decrease	USD	1,760	1,600	825	750
EUE	Hedge/Member	Mnth 3-11	Decrease	USD	1,600	1,600	750	750
ERCOT STH 345 KV HUB MW OFFPK S (J1)								
J1	Spec	Mnth 1	Decrease	USD	165	150	83	75
J1	Hedge/Member	Mnth 1	Decrease	USD	150	150	75	75
J1	Spec	Mnth 2	Decrease	USD	165	150	83	75
J1	Hedge/Member	Mnth 2	Decrease	USD	150	150	75	75
J1	Spec	Mnths 3-11	Decrease	USD	77	70	39	35
J1	Hedge/Member	Mnths 3-11	Decrease	USD	70	70	35	35
J1	Spec	Mnths 12+	Decrease	USD	77	70	39	35
J1	Hedge/Member	Mnths 12+	Decrease	USD	70	70	35	35
ERCOT STH 345 KV HUB MW PEAK FUT (I9)								
I9	Spec	Mnth 1	Decrease	USD	4,400	4,000	2,200	2,000
I9	Hedge/Member	Mnth 1	Decrease	USD	4,000	4,000	2,000	2,000
I9	Spec	Mnth 2	Decrease	USD	3,850	3,500	1,925	1,750
I9	Hedge/Member	Mnth 2	Decrease	USD	3,500	3,500	1,750	1,750
I9	Spec	Mnths 3-11	Decrease	USD	3,300	3,000	1,650	1,500
I9	Hedge/Member	Mnths 3-11	Decrease	USD	3,000	3,000	1,500	1,500
ERCOT WEST 345 KV HUB DAY AHEAD PK (EWE)								
EWE	Spec	Mnth 1	Decrease	USD	3,300	3,000	2,200	2,000
EWE	Hedge/Member	Mnth 1	Decrease	USD	3,000	3,000	2,000	2,000
EWE	Spec	Mnth 2	Decrease	USD	3,300	3,000	2,200	2,000
EWE	Hedge/Member	Mnth 2	Decrease	USD	3,000	3,000	2,000	2,000
EWE	Spec	Mnth 3-11	Decrease	USD	1,760	1,600	825	750
EWE	Hedge/Member	Mnth 3-11	Decrease	USD	1,600	1,600	750	750

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

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

ERCOT WEST 345 KV HUB MW PEAK FUT (N1)

N1	Spec	Mnth 1	Decrease	USD	1,540	1,400	1,320	1,200
N1	Hedge/Member	Mnth 1	Decrease	USD	1,400	1,400	1,200	1,200
N1	Spec	Mnth 2	Decrease	USD	2,420	2,200	1,100	1,000
N1	Hedge/Member	Mnth 2	Decrease	USD	2,200	2,200	1,000	1,000
N1	Spec	Mnths 3-11	Decrease	USD	990	900	825	750
N1	Hedge/Member	Mnths 3-11	Decrease	USD	900	900	750	750
N1	Spec	Mnths 12+	Decrease	USD	990	900	825	750
N1	Hedge/Member	Mnths 12+	Decrease	USD	900	900	750	750

ERCOT WEST 345KV HUB DAY AHD OFFPK (EWK)

EWK	Spec	Mnth 1	Decrease	USD	143	130	83	75
EWK	Hedge/Member	Mnth 1	Decrease	USD	130	130	75	75
EWK	Spec	Mnth 2	Decrease	USD	143	130	83	75
EWK	Hedge/Member	Mnth 2	Decrease	USD	130	130	75	75
EWK	Spec	Mnths 3-11	Decrease	USD	88	80	44	40
EWK	Hedge/Member	Mnths 3-11	Decrease	USD	80	80	40	40

ISO NEW ENGLAND OFF-PEAK LMP FUT (KI)

KI	Spec	Mnth 1	Decrease	USD	38,500	35,000	22,000	20,000
KI	Hedge/Member	Mnth 1	Decrease	USD	35,000	35,000	20,000	20,000
KI	Spec	Mnth 2	Decrease	USD	38,500	35,000	22,000	20,000
KI	Hedge/Member	Mnth 2	Decrease	USD	35,000	35,000	20,000	20,000
KI	Spec	Mnths 3-5	Decrease	USD	13,200	12,000	9,900	9,000
KI	Hedge/Member	Mnths 3-5	Decrease	USD	12,000	12,000	9,000	9,000
KI	Spec	Mnths 6-11	Decrease	USD	7,700	7,000	4,400	4,000
KI	Hedge/Member	Mnths 6-11	Decrease	USD	7,000	7,000	4,000	4,000

ISO NEW ENGLAND PEAK LMP FUT (NI)

NI	Spec	Mnth 1	Decrease	USD	44,000	40,000	22,000	20,000
NI	Hedge/Member	Mnth 1	Decrease	USD	40,000	40,000	20,000	20,000
NI	Spec	Mnth 2	Decrease	USD	44,000	40,000	22,000	20,000
NI	Hedge/Member	Mnth 2	Decrease	USD	40,000	40,000	20,000	20,000
NI	Spec	Mnths 3-5	Decrease	USD	16,500	15,000	11,000	10,000
NI	Hedge/Member	Mnths 3-5	Decrease	USD	15,000	15,000	10,000	10,000
NI	Spec	Mnths 6-11	Decrease	USD	14,300	13,000	7,700	7,000
NI	Hedge/Member	Mnths 6-11	Decrease	USD	13,000	13,000	7,000	7,000

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
Outright Rates								
MICHIGAN HUB OFF-PK 5MW MONTH FUT (HJ)								
HJ	Spec	Mnth 1	Decrease	USD	15,400	14,000	6,600	6,000
HJ	Hedge/Member	Mnth 1	Decrease	USD	14,000	14,000	6,000	6,000
HJ	Spec	Mnth 2	Decrease	USD	8,800	8,000	4,400	4,000
HJ	Hedge/Member	Mnth 2	Decrease	USD	8,000	8,000	4,000	4,000
HJ	Spec	Mnths 3-11	Decrease	USD	3,300	3,000	2,200	2,000
HJ	Hedge/Member	Mnths 3-11	Decrease	USD	3,000	3,000	2,000	2,000
HJ	Spec	Mnths 12+	Decrease	USD	3,300	3,000	2,200	2,000
HJ	Hedge/Member	Mnths 12+	Decrease	USD	3,000	3,000	2,000	2,000
MID IND TRAN SO IL HUB5MW OFFP (4R)								
4R	Spec	Mnth 1	Decrease	USD	88	80	44	40
4R	Hedge/Member	Mnth 1	Decrease	USD	80	80	40	40
4R	Spec	Mnth 2	Decrease	USD	88	80	44	40
4R	Hedge/Member	Mnth 2	Decrease	USD	80	80	40	40
4R	Spec	Mnths 3-11	Decrease	USD	44	40	22	20
4R	Hedge/Member	Mnths 3-11	Decrease	USD	40	40	20	20
MID IND TRAN SO IL HUB5MW PEAK (4Q)								
4Q	Spec	Mnth 1	Decrease	USD	4,400	4,000	2,200	2,000
4Q	Hedge/Member	Mnth 1	Decrease	USD	4,000	4,000	2,000	2,000
4Q	Spec	Mnth 2	Decrease	USD	2,200	2,000	1,650	1,500
4Q	Hedge/Member	Mnth 2	Decrease	USD	2,000	2,000	1,500	1,500
4Q	Spec	Mnths 3-11	Decrease	USD	1,650	1,500	825	750
4Q	Hedge/Member	Mnths 3-11	Decrease	USD	1,500	1,500	750	750
MISO INDIANA HUB 5MW D AH O PK (K2)								
K2	Spec	Mnths 4+	Increase	USD	11	10	17	15
K2	Hedge/Member	Mnths 4+	Increase	USD	10	10	15	15
MISO INDIANA HUB 5MW OFFPK CAL MO RT (FTM)								
FTM	Spec	Mnths 3-11	Decrease	USD	22	20	17	15
FTM	Hedge/Member	Mnths 3-11	Decrease	USD	20	20	15	15
NEPOOL CNCTCT 5MW D AH O PK (P3)								
P3	Spec	Mnth 1	Decrease	USD	550	500	220	200
P3	Hedge/Member	Mnth 1	Decrease	USD	500	500	200	200
P3	Spec	Mnth 2	Decrease	USD	550	500	165	150
P3	Hedge/Member	Mnth 2	Decrease	USD	500	500	150	150
P3	Spec	Mnths 3-11	Decrease	USD	165	150	83	75
P3	Hedge/Member	Mnths 3-11	Decrease	USD	150	150	75	75

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

NEPOOL CONECTIC 5MW D AH PK (P2)

P2	Spec	Mnth 1	Decrease	USD	4,950	4,500	2,200	2,000
P2	Hedge/Member	Mnth 1	Decrease	USD	4,500	4,500	2,000	2,000
P2	Spec	Mnth 2	Decrease	USD	4,950	4,500	2,200	2,000
P2	Hedge/Member	Mnth 2	Decrease	USD	4,500	4,500	2,000	2,000
P2	Spec	Mnths 3-5	Decrease	USD	1,650	1,500	1,100	1,000
P2	Hedge/Member	Mnths 3-5	Decrease	USD	1,500	1,500	1,000	1,000
P2	Spec	Mnths 6-11	Decrease	USD	1,100	1,000	550	500
P2	Hedge/Member	Mnths 6-11	Decrease	USD	1,000	1,000	500	500

NEPOOL INTR HUB 5MW D AH O PK (H2)

H2	Spec	Mnth 1	Decrease	USD	165	150	110	100
H2	Hedge/Member	Mnth 1	Decrease	USD	150	150	100	100
H2	Spec	Mnth 2	Decrease	USD	165	150	110	100
H2	Hedge/Member	Mnth 2	Decrease	USD	150	150	100	100
H2	Spec	Mnths 3-5	Decrease	USD	66	60	55	50
H2	Hedge/Member	Mnths 3-5	Decrease	USD	60	60	50	50
H2	Spec	Mnths 6-11	Decrease	USD	33	30	22	20
H2	Hedge/Member	Mnths 6-11	Decrease	USD	30	30	20	20

NEPOOL INTR HUB 5MW D AH PK (U6)

U6	Spec	Month 1	Decrease	USD	4,950	4,500	2,200	2,000
U6	Hedge/Member	Month 1	Decrease	USD	4,500	4,500	2,000	2,000
U6	Spec	Month 2	Decrease	USD	4,950	4,500	2,200	2,000
U6	Hedge/Member	Month 2	Decrease	USD	4,500	4,500	2,000	2,000
U6	Spec	Mnths 3-5	Decrease	USD	2,200	2,000	1,100	1,000
U6	Hedge/Member	Mnths 3-5	Decrease	USD	2,000	2,000	1,000	1,000
U6	Spec	Mnths 6-11	Decrease	USD	770	700	440	400
U6	Hedge/Member	Mnths 6-11	Decrease	USD	700	700	400	400

NEPOOL MAINE 5MW D AH PK (P9)

P9	Spec	Mnths 3-11	Decrease	USD	2,200	2,000	1,650	1,500
P9	Hedge/Member	Mnths 3-11	Decrease	USD	2,000	2,000	1,500	1,500

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

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

NEPOOL NE MASS 5MW D AH O PK (P8)

P8	Spec	Mnth 1	Decrease	USD	187	170	110	100
P8	Hedge/Member	Mnth 1	Decrease	USD	170	170	100	100
P8	Spec	Mnth 2	Decrease	USD	187	170	110	100
P8	Hedge/Member	Mnth 2	Decrease	USD	170	170	100	100
P8	Spec	Mnths 3-5	Decrease	USD	66	60	55	50
P8	Hedge/Member	Mnths 3-5	Decrease	USD	60	60	50	50
P8	Spec	Mnths 6-11	Decrease	USD	33	30	22	20
P8	Hedge/Member	Mnths 6-11	Decrease	USD	30	30	20	20

NEPOOL NE MASS 5MW D AH PK (P7)

P7	Spec	Mnth 1	Decrease	USD	4,950	4,500	2,200	2,000
P7	Hedge/Member	Mnth 1	Decrease	USD	4,500	4,500	2,000	2,000
P7	Spec	Mnth 2	Decrease	USD	4,950	4,500	2,200	2,000
P7	Hedge/Member	Mnth 2	Decrease	USD	4,500	4,500	2,000	2,000
P7	Spec	Mnths 3-5	Decrease	USD	1,650	1,500	1,100	1,000
P7	Hedge/Member	Mnths 3-5	Decrease	USD	1,500	1,500	1,000	1,000

NEPOOL NEW HAMP 5MW D AH O PK (U3)

U3	Spec	Mnth 1	Decrease	USD	550	500	220	200
U3	Hedge/Member	Mnth 1	Decrease	USD	500	500	200	200
U3	Spec	Mnth 2	Decrease	USD	440	400	165	150
U3	Hedge/Member	Mnth 2	Decrease	USD	400	400	150	150
U3	Spec	Mnths 3-6	Decrease	USD	220	200	83	75
U3	Hedge/Member	Mnths 3-6	Decrease	USD	200	200	75	75
U3	Spec	Mnths 7-11	Decrease	USD	165	150	55	50
U3	Hedge/Member	Mnths 7-11	Decrease	USD	150	150	50	50

NEPOOL NEW HAMP 5MW D AH PK (U2)

U2	Spec	Mnth 1	Decrease	USD	9,680	8,800	4,400	4,000
U2	Hedge/Member	Mnth 1	Decrease	USD	8,800	8,800	4,000	4,000
U2	Spec	Mnth 2	Decrease	USD	9,680	8,800	4,400	4,000
U2	Hedge/Member	Mnth 2	Decrease	USD	8,800	8,800	4,000	4,000
U2	Spec	Mnths 3-11	Decrease	USD	3,080	2,800	1,650	1,500
U2	Hedge/Member	Mnths 3-11	Decrease	USD	2,800	2,800	1,500	1,500

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
Outright Rates								
NEPOOL RHD ISLD 5MW D AH PK (U4)								
U4	Spec	Mnth 1	Decrease	USD	5,500	5,000	2,200	2,000
U4	Hedge/Member	Mnth 1	Decrease	USD	5,000	5,000	2,000	2,000
U4	Spec	Mnth 2	Decrease	USD	5,500	5,000	2,200	2,000
U4	Hedge/Member	Mnth 2	Decrease	USD	5,000	5,000	2,000	2,000
U4	Spec	Mnths 3-5	Decrease	USD	1,320	1,200	825	750
U4	Hedge/Member	Mnths 3-5	Decrease	USD	1,200	1,200	750	750
U4	Spec	Mnths 6-11	Decrease	USD	660	600	440	400
U4	Hedge/Member	Mnths 6-11	Decrease	USD	600	600	400	400
NEPOOL RHODE IL 5MW D AH O PK (U5)								
U5	Spec	Mnth 1	Decrease	USD	220	200	110	100
U5	Hedge/Member	Mnth 1	Decrease	USD	200	200	100	100
U5	Spec	Mnth 2	Decrease	USD	220	200	110	100
U5	Hedge/Member	Mnth 2	Decrease	USD	200	200	100	100
U5	Spec	Mnths 3-5	Decrease	USD	77	70	55	50
U5	Hedge/Member	Mnths 3-5	Decrease	USD	70	70	50	50
U5	Spec	Mnths 6-11	Decrease	USD	33	30	22	20
U5	Hedge/Member	Mnths 6-11	Decrease	USD	30	30	20	20
NEPOOL SE MASS 5MW D AH O PK (P5)								
P5	Spec	Mnth 1	Decrease	USD	440	400	110	100
P5	Hedge/Member	Mnth 1	Decrease	USD	400	400	100	100
P5	Spec	Mnth 2	Decrease	USD	385	350	88	80
P5	Hedge/Member	Mnth 2	Decrease	USD	350	350	80	80
P5	Spec	Mnths 3-11	Decrease	USD	154	140	66	60
P5	Hedge/Member	Mnths 3-11	Decrease	USD	140	140	60	60
NEPOOL SE MASS 5MW D AH PK (P4)								
P4	Spec	Mnth 1	Decrease	USD	11,000	10,000	4,400	4,000
P4	Hedge/Member	Mnth 1	Decrease	USD	10,000	10,000	4,000	4,000
P4	Spec	Mnth 2	Decrease	USD	11,000	10,000	4,400	4,000
P4	Hedge/Member	Mnth 2	Decrease	USD	10,000	10,000	4,000	4,000
P4	Spec	Mnths 3-11	Decrease	USD	2,750	2,500	1,650	1,500
P4	Hedge/Member	Mnths 3-11	Decrease	USD	2,500	2,500	1,500	1,500
NEPOOL W CNT MASS 5MW D AH O PK (L9)								
L9	Spec	Mnth 1	Decrease	USD	187	170	160	145
L9	Hedge/Member	Mnth 1	Decrease	USD	170	170	145	145
L9	Spec	Mnth 2	Decrease	USD	187	170	160	145
L9	Hedge/Member	Mnth 2	Decrease	USD	170	170	145	145

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

NEPOOL W CNTR M 5MW D AH PK (R6)

R6	Spec	Mnth 1	Decrease	USD	5,500	5,000	2,200	2,000
R6	Hedge/Member	Mnth 1	Decrease	USD	5,000	5,000	2,000	2,000
R6	Spec	Mnth 2	Decrease	USD	5,500	5,000	2,200	2,000
R6	Hedge/Member	Mnth 2	Decrease	USD	5,000	5,000	2,000	2,000
R6	Spec	Mnths +12	Increase	USD	825	750	1,100	1,000
R6	Hedge/Member	Mnths +12	Increase	USD	750	750	1,000	1,000

NORTHERN ILLINOIS HUB MONTHLY (UM)

UM	Spec	Mnth 1	Decrease	USD	55,000	50,000	38,500	35,000
UM	Hedge/Member	Mnth 1	Decrease	USD	50,000	50,000	35,000	35,000

NORTHERN ILLINOIS OFF-PEAK MONTHLY (UO)

UO	Spec	Mnth 1	Decrease	USD	14,300	13,000	8,250	7,500
UO	Hedge/Member	Mnth 1	Decrease	USD	13,000	13,000	7,500	7,500
UO	Spec	Mnth 2	Decrease	USD	14,300	13,000	8,250	7,500
UO	Hedge/Member	Mnth 2	Decrease	USD	13,000	13,000	7,500	7,500
UO	Spec	Mnths 12+	Increase	USD	1,925	1,750	3,300	3,000
UO	Hedge/Member	Mnths 12+	Increase	USD	1,750	1,750	3,000	3,000

NYISO A (KA)

KA	Spec	Mnth 1	Decrease	USD	14,300	13,000	7,700	7,000
KA	Hedge/Member	Mnth 1	Decrease	USD	13,000	13,000	7,000	7,000
KA	Spec	Mnth 2	Decrease	USD	14,300	13,000	7,700	7,000
KA	Hedge/Member	Mnth 2	Decrease	USD	13,000	13,000	7,000	7,000
KA	Spec	Mnths 3-11	Decrease	USD	2,750	2,500	2,200	2,000
KA	Hedge/Member	Mnths 3-11	Decrease	USD	2,500	2,500	2,000	2,000

NYISO A OFF-PEAK (KB)

KB	Spec	Mnth 1	Decrease	USD	16,500	15,000	8,800	8,000
KB	Hedge/Member	Mnth 1	Decrease	USD	15,000	15,000	8,000	8,000
KB	Spec	Mnth 2	Decrease	USD	16,500	15,000	8,800	8,000
KB	Hedge/Member	Mnth 2	Decrease	USD	15,000	15,000	8,000	8,000
KB	Spec	Mnths 3-5	Decrease	USD	4,400	4,000	3,300	3,000
KB	Hedge/Member	Mnths 3-5	Decrease	USD	4,000	4,000	3,000	3,000

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
Outright Rates								
NYISO G (KG)								
KG	Spec	Mnth 1	Decrease	USD	16,500	15,000	9,900	9,000
KG	Hedge/Member	Mnth 1	Decrease	USD	15,000	15,000	9,000	9,000
KG	Spec	Mnth 2	Decrease	USD	16,500	15,000	9,900	9,000
KG	Hedge/Member	Mnth 2	Decrease	USD	15,000	15,000	9,000	9,000
KG	Spec	Mnths 3-4	Decrease	USD	4,400	4,000	3,300	3,000
KG	Hedge/Member	Mnths 3-4	Decrease	USD	4,000	4,000	3,000	3,000
KG	Spec	Mnths 5-11	Decrease	USD	2,750	2,500	2,200	2,000
KG	Hedge/Member	Mnths 5-11	Decrease	USD	2,500	2,500	2,000	2,000
NYISO G OFF-PEAK (KH)								
KH	Spec	Mnth 1	Decrease	USD	20,900	19,000	14,300	13,000
KH	Hedge/Member	Mnth 1	Decrease	USD	19,000	19,000	13,000	13,000
KH	Spec	Mnth 2	Decrease	USD	20,900	19,000	14,300	13,000
KH	Hedge/Member	Mnth 2	Decrease	USD	19,000	19,000	13,000	13,000
KH	Spec	Mnths 3-6	Decrease	USD	7,700	7,000	5,500	5,000
KH	Hedge/Member	Mnths 3-6	Decrease	USD	7,000	7,000	5,000	5,000
KH	Spec	Mnths 7-11	Decrease	USD	4,950	4,500	4,400	4,000
KH	Hedge/Member	Mnths 7-11	Decrease	USD	4,500	4,500	4,000	4,000
KH	Spec	Mnths 12+	Decrease	USD	4,950	4,500	4,400	4,000
KH	Hedge/Member	Mnths 12+	Decrease	USD	4,500	4,500	4,000	4,000
NYISO J (KJ)								
KJ	Spec	Mnth 1	Decrease	USD	16,500	15,000	9,900	9,000
KJ	Hedge/Member	Mnth 1	Decrease	USD	15,000	15,000	9,000	9,000
KJ	Spec	Mnth 2	Decrease	USD	16,500	15,000	9,900	9,000
KJ	Hedge/Member	Mnth 2	Decrease	USD	15,000	15,000	9,000	9,000
KJ	Spec	Mnths 3-6	Decrease	USD	4,400	4,000	3,300	3,000
KJ	Hedge/Member	Mnths 3-6	Decrease	USD	4,000	4,000	3,000	3,000
KJ	Spec	Mnths 7-11	Decrease	USD	2,750	2,500	1,650	1,500
KJ	Hedge/Member	Mnths 7-11	Decrease	USD	2,500	2,500	1,500	1,500
NYISO J OFF-PEAK (KK)								
KK	Spec	Mnth 1	Decrease	USD	17,600	16,000	14,300	13,000
KK	Hedge/Member	Mnth 1	Decrease	USD	16,000	16,000	13,000	13,000
KK	Spec	Mnth 2	Decrease	USD	17,600	16,000	14,300	13,000
KK	Hedge/Member	Mnth 2	Decrease	USD	16,000	16,000	13,000	13,000
KK	Spec	Mnths 3-11	Decrease	USD	6,600	6,000	4,950	4,500
KK	Hedge/Member	Mnths 3-11	Decrease	USD	6,000	6,000	4,500	4,500

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
Outright Rates								
NYISO NYC IN-CITY CAPACITY CAL MO (NNC)								
NNC	Spec		Decrease	USD	11,000	10,000	8,250	7,500
NNC	Hedge/Member		Decrease	USD	10,000	10,000	7,500	7,500
NYISO ZONE A 5MW D AH O PK (K4)								
K4	Spec	Mnth 1	Decrease	USD	110	100	55	50
K4	Hedge/Member	Mnth 1	Decrease	USD	100	100	50	50
K4	Spec	Mnth 2	Decrease	USD	110	100	55	50
K4	Hedge/Member	Mnth 2	Decrease	USD	100	100	50	50
NYISO ZONE A 5MW D AH PK (K3)								
K3	Spec	Mnth 1	Decrease	USD	2,860	2,600	1,540	1,400
K3	Hedge/Member	Mnth 1	Decrease	USD	2,600	2,600	1,400	1,400
K3	Spec	Mnth 2	Decrease	USD	2,860	2,600	1,540	1,400
K3	Hedge/Member	Mnth 2	Decrease	USD	2,600	2,600	1,400	1,400
K3	Spec	Mnths 3-11	Decrease	USD	550	500	440	400
K3	Hedge/Member	Mnths 3-11	Decrease	USD	500	500	400	400
NYISO ZONE C 5MW D AH O PK (A3)								
A3	Spec	Mnth 1	Decrease	USD	121	110	61	55
A3	Hedge/Member	Mnth 1	Decrease	USD	110	110	55	55
A3	Spec	Mnth 2	Decrease	USD	121	110	61	55
A3	Hedge/Member	Mnth 2	Decrease	USD	110	110	55	55
A3	Spec	Mnths 12+	Increase	USD	17	15	22	20
A3	Hedge/Member	Mnths 12+	Increase	USD	15	15	20	20
NYISO ZONE C 5MW D AH PK (Q5)								
Q5	Spec	Mnth 1	Decrease	USD	3,300	3,000	1,650	1,500
Q5	Hedge/Member	Mnth 1	Decrease	USD	3,000	3,000	1,500	1,500
Q5	Spec	Mnth 2	Decrease	USD	3,300	3,000	1,650	1,500
Q5	Hedge/Member	Mnth 2	Decrease	USD	3,000	3,000	1,500	1,500
Q5	Spec	Mnths 3-11	Decrease	USD	1,100	1,000	660	600
Q5	Hedge/Member	Mnths 3-11	Decrease	USD	1,000	1,000	600	600
NYISO ZONE E 5MW OFF- PK CAL MO FUT (58)								
58	Spec	Mnth 1	Decrease	USD	121	110	55	50
58	Hedge/Member	Mnth 1	Decrease	USD	110	110	50	50
58	Spec	Mnths 2-6	Decrease	USD	110	100	55	50
58	Hedge/Member	Mnths 2-6	Decrease	USD	100	100	50	50
58	Spec	Mnths 12+	Increase	USD	17	15	22	20
58	Hedge/Member	Mnths 12+	Increase	USD	15	15	20	20

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
Outright Rates								
NYISO ZONE E 5MW PK CAL MO FUT (55)								
55	Spec	Mnth 1	Decrease	USD	4,400	4,000	2,200	2,000
55	Hedge/Member	Mnth 1	Decrease	USD	4,000	4,000	2,000	2,000
55	Spec	Mnth 2	Decrease	USD	4,400	4,000	2,200	2,000
55	Hedge/Member	Mnth 2	Decrease	USD	4,000	4,000	2,000	2,000
55	Spec	Mnths 3-11	Decrease	USD	880	800	660	600
55	Hedge/Member	Mnths 3-11	Decrease	USD	800	800	600	600
55	Spec	Mnths 12+	Decrease	USD	660	600	550	500
55	Hedge/Member	Mnths 12+	Decrease	USD	600	600	500	500
NYISO ZONE F 5MW O PK FUT (4M)								
4M	Spec	Mnths 3-4	Increase	USD	50	45	66	60
4M	Hedge/Member	Mnths 3-4	Increase	USD	45	45	60	60
4M	Spec	Mnths 12+	Increase	USD	33	30	66	60
4M	Hedge/Member	Mnths 12+	Increase	USD	30	30	60	60
NYISO ZONE F 5MW PK FUT (4L)								
4L	Spec	Mnth 1	Increase	USD	1,650	1,500	2,750	2,500
4L	Hedge/Member	Mnth 1	Increase	USD	1,500	1,500	2,500	2,500
4L	Spec	Mnth 2	Increase	USD	1,650	1,500	2,750	2,500
4L	Hedge/Member	Mnth 2	Increase	USD	1,500	1,500	2,500	2,500
4L	Spec	Mnths 3-11	Decrease	USD	1,650	1,500	1,100	1,000
4L	Hedge/Member	Mnths 3-11	Decrease	USD	1,500	1,500	1,000	1,000
NYISO ZONE G 5MW D AH O PK (D2)								
D2	Spec	Mnth 1	Decrease	USD	132	120	66	60
D2	Hedge/Member	Mnth 1	Decrease	USD	120	120	60	60
D2	Spec	Mnth 2	Decrease	USD	132	120	66	60
D2	Hedge/Member	Mnth 2	Decrease	USD	120	120	60	60
D2	Spec	Mnths 5-11	Decrease	USD	22	20	17	15
D2	Hedge/Member	Mnths 5-11	Decrease	USD	20	20	15	15
NYISO ZONE G 5MW D AH PK (T3)								
T3	Spec	Mnth 1	Decrease	USD	3,300	3,000	1,980	1,800
T3	Hedge/Member	Mnth 1	Decrease	USD	3,000	3,000	1,800	1,800
T3	Spec	Mnth 2	Decrease	USD	3,300	3,000	1,980	1,800
T3	Hedge/Member	Mnth 2	Decrease	USD	3,000	3,000	1,800	1,800
T3	Spec	Mnths 3-4	Decrease	USD	880	800	660	600
T3	Hedge/Member	Mnths 3-4	Decrease	USD	800	800	600	600
T3	Spec	Mnths 5-11	Decrease	USD	550	500	440	400
T3	Hedge/Member	Mnths 5-11	Decrease	USD	500	500	400	400

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

NYISO ZONE J 5MW D AH O PK (D4)

D4	Spec	Mnth 1	Decrease	USD	132	120	66	60
D4	Hedge/Member	Mnth 1	Decrease	USD	120	120	60	60
D4	Spec	Mnth 2	Decrease	USD	132	120	66	60
D4	Hedge/Member	Mnth 2	Decrease	USD	120	120	60	60

NYISO ZONE J 5MW D AH PK (D3)

D3	Spec	Mnth 1	Decrease	USD	3,300	3,000	1,980	1,800
D3	Hedge/Member	Mnth 1	Decrease	USD	3,000	3,000	1,800	1,800
D3	Spec	Mnth 2	Decrease	USD	3,300	3,000	1,980	1,800
D3	Hedge/Member	Mnth 2	Decrease	USD	3,000	3,000	1,800	1,800
D3	Spec	Mnths 3-6	Decrease	USD	880	800	660	600
D3	Hedge/Member	Mnths 3-6	Decrease	USD	800	800	600	600
D3	Spec	Mnths 7-11	Decrease	USD	550	500	330	300
D3	Hedge/Member	Mnths 7-11	Decrease	USD	500	500	300	300

ONTARIO PEAK CAL-MONTH FUTURES (OPM)

OPM	Spec	Mnth 2	Decrease	CAD	2,200	2,000	1,650	1,500
OPM	Hedge/Member	Mnth 2	Decrease	CAD	2,000	2,000	1,500	1,500
OPM	Spec	Mnths 3-6	Decrease	CAD	1,265	1,150	770	700
OPM	Hedge/Member	Mnths 3-6	Decrease	CAD	1,150	1,150	700	700
OPM	Spec	Mnths 7-11	Decrease	CAD	660	600	385	350
OPM	Hedge/Member	Mnths 7-11	Decrease	CAD	600	600	350	350
OPM	Spec	Mnths 12+	Decrease	CAD	660	600	385	350
OPM	Hedge/Member	Mnths 12+	Decrease	CAD	600	600	350	350

PJM AD HUB 5MW REAL TIME O PK (V3)

V3	Spec	Mnth 1	Decrease	USD	66	60	33	30
V3	Hedge/Member	Mnth 1	Decrease	USD	60	60	30	30
V3	Spec	Mnth 2	Decrease	USD	66	60	33	30
V3	Hedge/Member	Mnth 2	Decrease	USD	60	60	30	30

PJM AD HUB 5MW REAL TIME PK (Z9)

Z9	Spec	Mnth 1	Decrease	USD	3,520	3,200	2,750	2,500
Z9	Hedge/Member	Mnth 1	Decrease	USD	3,200	3,200	2,500	2,500
Z9	Spec	Mnth 2	Decrease	USD	1,870	1,700	1,705	1,550
Z9	Hedge/Member	Mnth 2	Decrease	USD	1,700	1,700	1,550	1,550

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
Outright Rates								
PJM AECO DA OFF-PEAK (X1)								
X1	Spec	Mnth 1	Decrease	USD	154	140	77	70
X1	Hedge/Member	Mnth 1	Decrease	USD	140	140	70	70
X1	Spec	Mnth 2	Decrease	USD	154	140	77	70
X1	Hedge/Member	Mnth 2	Decrease	USD	140	140	70	70
X1	Spec	Mnths 3-4	Decrease	USD	66	60	33	30
X1	Hedge/Member	Mnths 3-4	Decrease	USD	60	60	30	30
X1	Spec	Mnths 5-11	Decrease	USD	66	60	33	30
X1	Hedge/Member	Mnths 5-11	Decrease	USD	60	60	30	30
X1	Spec	Mnths 12+	Decrease	USD	33	30	17	15
X1	Hedge/Member	Mnths 12+	Decrease	USD	30	30	15	15
PJM AECO DA PEAK (Y1)								
Y1	Spec	Mnth 1	Decrease	USD	5,500	5,000	2,750	2,500
Y1	Hedge/Member	Mnth 1	Decrease	USD	5,000	5,000	2,500	2,500
Y1	Spec	Mnth 2	Decrease	USD	4,400	4,000	2,750	2,500
Y1	Hedge/Member	Mnth 2	Decrease	USD	4,000	4,000	2,500	2,500
PJM APS ZONE DA OFF-PEAK (W4)								
W4	Spec	Mnth 1	Decrease	USD	132	120	66	60
W4	Hedge/Member	Mnth 1	Decrease	USD	120	120	60	60
W4	Spec	Mnth 2	Decrease	USD	132	120	66	60
W4	Hedge/Member	Mnth 2	Decrease	USD	120	120	60	60
PJM BGE DA OFF-PEAK (R3)								
R3	Spec	Mnth 1	Decrease	USD	165	150	83	75
R3	Hedge/Member	Mnth 1	Decrease	USD	150	150	75	75
R3	Spec	Mnth 2	Decrease	USD	138	125	66	60
R3	Hedge/Member	Mnth 2	Decrease	USD	125	125	60	60
PJM BGE DA PEAK (E3)								
E3	Spec	Mnth 1	Decrease	USD	6,600	6,000	3,850	3,500
E3	Hedge/Member	Mnth 1	Decrease	USD	6,000	6,000	3,500	3,500
E3	Spec	Mnth 2	Decrease	USD	4,400	4,000	2,750	2,500
E3	Hedge/Member	Mnth 2	Decrease	USD	4,000	4,000	2,500	2,500
PJM COMED 5MW D AH O PK (D9)								
D9	Spec	Mnth 1	Decrease	USD	66	60	39	35
D9	Hedge/Member	Mnth 1	Decrease	USD	60	60	35	35
D9	Spec	Mnth 2	Decrease	USD	66	60	39	35
D9	Hedge/Member	Mnth 2	Decrease	USD	60	60	35	35
D9	Spec	Mnths 12+	Increase	USD	11	10	17	15
D9	Hedge/Member	Mnths 12+	Increase	USD	10	10	15	15

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
Outright Rates								
PJM COMED 5MW D AH PK (D8)								
D8	Spec	Mnth 1	Decrease	USD	1,650	1,500	1,375	1,250
D8	Hedge/Member	Mnth 1	Decrease	USD	1,500	1,500	1,250	1,250
D8	Spec	Mnth 2	Decrease	USD	1,650	1,500	1,375	1,250
D8	Hedge/Member	Mnth 2	Decrease	USD	1,500	1,500	1,250	1,250
PJM DAYTON DA OFF-PEAK (R7)								
R7	Spec	Mnth 1	Decrease	USD	66	60	39	35
R7	Hedge/Member	Mnth 1	Decrease	USD	60	60	35	35
R7	Spec	Mnth 2	Decrease	USD	66	60	39	35
R7	Hedge/Member	Mnth 2	Decrease	USD	60	60	35	35
PJM DAYTON DA PEAK (D7)								
D7	Spec	Mnth 1	Decrease	USD	1,650	1,500	1,430	1,300
D7	Hedge/Member	Mnth 1	Decrease	USD	1,500	1,500	1,300	1,300
PJM JCPL DA OFF-PEAK (F2)								
F2	Spec	Mnth 1	Decrease	USD	330	300	165	150
F2	Hedge/Member	Mnth 1	Decrease	USD	300	300	150	150
F2	Spec	Mnth 2	Decrease	USD	220	200	110	100
F2	Hedge/Member	Mnth 2	Decrease	USD	200	200	100	100
F2	Spec	Mnths 3-11	Decrease	USD	33	30	22	20
F2	Hedge/Member	Mnths 3-11	Decrease	USD	30	30	20	20
PJM JCPL DA PEAK (J2)								
J2	Spec	Mnth 1	Decrease	USD	5,500	5,000	2,750	2,500
J2	Hedge/Member	Mnth 1	Decrease	USD	5,000	5,000	2,500	2,500
J2	Spec	Mnth 2	Decrease	USD	4,400	4,000	2,200	2,000
J2	Hedge/Member	Mnth 2	Decrease	USD	4,000	4,000	2,000	2,000
PJM METED ZONE OFFPK CAL MO LMP FUT (46)								
46	Spec	Mnth 1	Decrease	USD	154	140	77	70
46	Hedge/Member	Mnth 1	Decrease	USD	140	140	70	70
46	Spec	Mnth 2	Decrease	USD	154	140	77	70
46	Hedge/Member	Mnth 2	Decrease	USD	140	140	70	70
PJM METED ZONE PK CAL LMP FUTURES (47)								
47	Spec	Mnth 1	Decrease	USD	5,500	5,000	2,750	2,500
47	Hedge/Member	Mnth 1	Decrease	USD	5,000	5,000	2,500	2,500
47	Spec	Mnth 2	Decrease	USD	4,400	4,000	2,750	2,500
47	Hedge/Member	Mnth 2	Decrease	USD	4,000	4,000	2,500	2,500

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
Outright Rates								
PJM MONTHLY (JM)								
JM	Spec	Mnth 1	Decrease	USD	121,000	110,000	60,500	55,000
JM	Hedge/Member	Mnth 1	Decrease	USD	110,000	110,000	55,000	55,000
JM	Spec	Mnth 2	Decrease	USD	33,000	30,000	19,250	17,500
JM	Hedge/Member	Mnth 2	Decrease	USD	30,000	30,000	17,500	17,500
JM	Spec	Mnths 4-5	Decrease	USD	4,400	4,000	3,850	3,500
JM	Hedge/Member	Mnths 4-5	Decrease	USD	4,000	4,000	3,500	3,500
JM	Spec	Mnth 3	Decrease	USD	7,700	7,000	6,600	6,000
JM	Hedge/Member	Mnth 3	Decrease	USD	7,000	7,000	6,000	6,000
PJM NI HUB 5MW REAL TIME O PK (B6)								
B6	Spec	Mnth 1	Decrease	USD	66	60	39	35
B6	Hedge/Member	Mnth 1	Decrease	USD	60	60	35	35
B6	Spec	Mnth 2	Decrease	USD	66	60	39	35
B6	Hedge/Member	Mnth 2	Decrease	USD	60	60	35	35
B6	Spec	Mnths 12+	Increase	USD	9	8	17	15
B6	Hedge/Member	Mnths 12+	Increase	USD	8	8	15	15
PJM NI HUB 5MW REAL TIME PK (B3)								
B3	Spec	Mnth 1	Decrease	USD	2,750	2,500	2,200	2,000
B3	Hedge/Member	Mnth 1	Decrease	USD	2,500	2,500	2,000	2,000
PJM NILL DA OFF-PEAK (L3)								
L3	Spec	Mnth 1	Decrease	USD	66	60	39	35
L3	Hedge/Member	Mnth 1	Decrease	USD	60	60	35	35
L3	Spec	Mnth 2	Decrease	USD	66	60	39	35
L3	Hedge/Member	Mnth 2	Decrease	USD	60	60	35	35
L3	Spec	Mnths 12+	Increase	USD	9	8	17	15
L3	Hedge/Member	Mnths 12+	Increase	USD	8	8	15	15
PJM NILL DA PEAK (N3)								
N3	Spec	Mnth 1	Decrease	USD	1,650	1,500	1,430	1,300
N3	Hedge/Member	Mnth 1	Decrease	USD	1,500	1,500	1,300	1,300
PJM OFF-PEAK LMP FUT (JP)								
JP	Spec	Mnth 1	Decrease	USD	18,700	17,000	11,000	10,000
JP	Hedge/Member	Mnth 1	Decrease	USD	17,000	17,000	10,000	10,000
JP	Spec	Mnth 2	Decrease	USD	18,700	17,000	8,800	8,000
JP	Hedge/Member	Mnth 2	Decrease	USD	17,000	17,000	8,000	8,000
JP	Spec	Mnths 3-4	Decrease	USD	11,000	10,000	7,150	6,500
JP	Hedge/Member	Mnths 3-4	Decrease	USD	10,000	10,000	6,500	6,500
JP	Spec	Mnths 5-11	Increase	USD	1,650	1,500	2,200	2,000
JP	Hedge/Member	Mnths 5-11	Increase	USD	1,500	1,500	2,000	2,000

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
Outright Rates								
PJM PECO Z5 MW OFPK CLM DA LMP (4P)								
4P	Spec	Mnth 1	Decrease	USD	154	140	83	75
4P	Hedge/Member	Mnth 1	Decrease	USD	140	140	75	75
4P	Spec	Mnth 2	Decrease	USD	138	125	66	60
4P	Hedge/Member	Mnth 2	Decrease	USD	125	125	60	60
PJM PECO Z5 MW PK CLM DA LMP (4N)								
4N	Spec	Mnth 1	Decrease	USD	5,500	5,000	3,300	3,000
4N	Hedge/Member	Mnth 1	Decrease	USD	5,000	5,000	3,000	3,000
4N	Spec	Mnth 2	Decrease	USD	4,070	3,700	2,750	2,500
4N	Hedge/Member	Mnth 2	Decrease	USD	3,700	3,700	2,500	2,500
4N	Spec	Mnths 3-11	Increase	USD	1,650	1,500	2,750	2,500
4N	Hedge/Member	Mnths 3-11	Increase	USD	1,500	1,500	2,500	2,500
PJM PPL DA OFF-PEAK (F5)								
F5	Spec	Mnth 1	Decrease	USD	132	120	66	60
F5	Hedge/Member	Mnth 1	Decrease	USD	120	120	60	60
F5	Spec	Mnth 2	Decrease	USD	132	120	66	60
F5	Hedge/Member	Mnth 2	Decrease	USD	120	120	60	60
PJM PPL DA PEAK (L5)								
L5	Spec	Mnth 1	Decrease	USD	5,500	5,000	3,300	3,000
L5	Hedge/Member	Mnth 1	Decrease	USD	5,000	5,000	3,000	3,000
L5	Spec	Mnth 2	Decrease	USD	4,400	4,000	2,200	2,000
L5	Hedge/Member	Mnth 2	Decrease	USD	4,000	4,000	2,000	2,000
PJM PSEG DA OFF-PEAK (W6)								
W6	Spec	Mnth 1	Decrease	USD	176	160	110	100
W6	Hedge/Member	Mnth 1	Decrease	USD	160	160	100	100
W6	Spec	Mnth 2	Decrease	USD	138	125	105	95
W6	Hedge/Member	Mnth 2	Decrease	USD	125	125	95	95
PJM WES HUB PEAK CAL MON REAL TIME (L1)								
L1	Spec	Mth 1	Decrease	USD	8,250	7,500	3,850	3,500
L1	Hedge/Member	Mth 1	Decrease	USD	7,500	7,500	3,500	3,500
L1	Spec	Mnth 2	Decrease	USD	4,400	4,000	2,200	2,000
L1	Hedge/Member	Mnth 2	Decrease	USD	4,000	4,000	2,000	2,000
PJM WES HUB PEAK LMP 50 MW (4S)								
4S	Spec	Mth 1	Decrease	USD	82,500	75,000	38,500	35,000
4S	Hedge/Member	Mth 1	Decrease	USD	75,000	75,000	35,000	35,000
4S	Spec	Mnth 2	Decrease	USD	44,000	40,000	22,000	20,000
4S	Hedge/Member	Mnth 2	Decrease	USD	40,000	40,000	20,000	20,000

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

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

PJM WESTH DA OFF-PEAK (E4)

E4	Spec	Mnth 1	Decrease	USD	110	100	55	50
E4	Hedge/Member	Mnth 1	Decrease	USD	100	100	50	50
E4	Spec	Mnth 2	Decrease	USD	110	100	55	50
E4	Hedge/Member	Mnth 2	Decrease	USD	100	100	50	50

PJM WESTH RT OFF-PEAK (N9)

N9	Spec	Mnth 1	Decrease	USD	143	130	72	65
N9	Hedge/Member	Mnth 1	Decrease	USD	130	130	65	65
N9	Spec	Mnth 2	Decrease	USD	138	125	72	65
N9	Hedge/Member	Mnth 2	Decrease	USD	125	125	65	65

PJM WESTHDA PEAK (J4)

J4	Spec	Mnth 1	Decrease	USD	6,600	6,000	2,750	2,500
J4	Hedge/Member	Mnth 1	Decrease	USD	6,000	6,000	2,500	2,500
J4	Spec	Mnth 2	Decrease	USD	3,850	3,500	2,200	2,000
J4	Hedge/Member	Mnth 2	Decrease	USD	3,500	3,500	2,000	2,000

ENVIRONMENTAL - Outright Rates

IN DELIVERY MONTH EUA FUTURES (6T)

6T	Spec	Mth 1	Increase	EUR	660	600	726	660
6T	Hedge/Member	Mth 1	Increase	EUR	600	600	660	660
6T	Spec	Mths 2+	Increase	EUR	660	600	726	660
6T	Hedge/Member	Mths 2+	Increase	EUR	600	600	660	660

ERIS Flex - Outright Rates

10-YR INT RATE SWAP SEC COUPON (ZC9210)

ZC9210 Spec	Increase	USD	1,650	1,500	1,925	1,750
ZC9210 Hedge/Member	Increase	USD	1,500	1,500	1,750	1,750

ERIS 2-YR INT RATE SWAP SEC COUPON (ZA9202)

ZA9202 Spec	Increase	USD	385	350	440	400
ZA9202 Hedge/Member	Increase	USD	350	350	400	400

ERIS 5-YR INT RATE SWAP SEC COUPON (ZB9205)

ZB9205 Spec	Increase	USD	1,100	1,000	1,265	1,150
ZB9205 Hedge/Member	Increase	USD	1,000	1,000	1,150	1,150

ERIS 7-YR INT RATE SWAP (SECONDARY) (ZC9207)

ZC9207 Spec	Increase	USD	1,375	1,250	1,540	1,400
ZC9207 Hedge/Member	Increase	USD	1,250	1,250	1,400	1,400

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
Outright Rates								
ERIS Standards - Outright Rates								
ERIS 7-YR INT RATE SWAP (ZC9107)								
ZC9107 Spec		Contracts 1-4	Increase	USD	1,210	1,100	1,265	1,150
ZC9107 Hedge/Member		Contracts 1-4	Increase	USD	1,100	1,100	1,150	1,150
ZC9107 Spec		Contracts 5-8	Increase	USD	1,375	1,250	1,430	1,300
ZC9107 Hedge/Member		Contracts 5-8	Increase	USD	1,250	1,250	1,300	1,300
ZC9107 Spec		Contracts 9+	Increase	USD	1,375	1,250	1,540	1,400
ZC9107 Hedge/Member		Contracts 9+	Increase	USD	1,250	1,250	1,400	1,400
ERIS STANDARD 10Y INT RATE SWAP FUT (ZC9110)								
ZC9110 Spec		Contracts 1-4	Increase	USD	1,375	1,250	1,485	1,350
ZC9110 Hedge/Member		Contracts 1-4	Increase	USD	1,250	1,250	1,350	1,350
ZC9110 Spec		Contracts 5-8	Increase	USD	1,650	1,500	1,760	1,600
ZC9110 Hedge/Member		Contracts 5-8	Increase	USD	1,500	1,500	1,600	1,600
ZC9110 Spec		Contracts 9+	Increase	USD	1,650	1,500	1,925	1,750
ZC9110 Hedge/Member		Contracts 9+	Increase	USD	1,500	1,500	1,750	1,750
ERIS STANDARD 2Y INT RATE SWAP FUTU (ZA9102)								
ZA9102 Spec		Contracts 9+	Increase	USD	385	350	440	400
ZA9102 Hedge/Member		Contracts 9+	Increase	USD	350	350	400	400
ERIS STANDARD 5Y INT RATE SWAP FUTU (ZB9105)								
ZB9105 Spec		Contracts 9+	Increase	USD	1,100	1,000	1,265	1,150
ZB9105 Hedge/Member		Contracts 9+	Increase	USD	1,000	1,000	1,150	1,150
ZB9105 Spec		Contracts 1-4	Increase	USD	440	400	550	500
ZB9105 Hedge/Member		Contracts 1-4	Increase	USD	400	400	500	500
ZB9105 Spec		Contracts 5-8	Increase	USD	935	850	1,045	950
ZB9105 Hedge/Member		Contracts 5-8	Increase	USD	850	850	950	950
ETHANOL - Outright Rates								
D6 ETHANOL RINS 2014 (D64)								
D64	Spec	Mnth 1	Increase	USD	5,940	5,400	6,600	6,000
D64	Hedge/Member	Mnth 1	Increase	USD	5,400	5,400	6,000	6,000
D64	Spec	Mnths 2+	Increase	USD	5,940	5,400	6,600	6,000
D64	Hedge/Member	Mnths 2+	Increase	USD	5,400	5,400	6,000	6,000
NEW YORK ETHANOL FUT (EZ)								
EZ	Spec	Mth 1	Decrease	USD	15,840	14,400	14,256	12,960
EZ	Hedge/Member	Mth 1	Decrease	USD	14,400	14,400	12,960	12,960
EZ	Spec	Mths 3-7	Decrease	USD	8,800	8,000	7,920	7,200
EZ	Hedge/Member	Mths 3-7	Decrease	USD	8,000	8,000	7,200	7,200

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
Outright Rates								
INTEREST RATES - Outright Rates								
10 YEAR USD INTEREST RATE SWAP (N1U)								
N1U	Spec		Increase	USD	1,650	1,500	1,925	1,750
N1U	Hedge/Member		Increase	USD	1,500	1,500	1,750	1,750
2 YEAR TREASURY NOTE FUTURES (26)								
26	Spec		Increase	USD	605	550	715	650
26	Hedge/Member		Increase	USD	550	550	650	650
2 YEAR USD INT RATE SWAP FUTURES (T1U)								
T1U	Spec		Increase	USD	385	350	440	400
T1U	Hedge/Member		Increase	USD	350	350	400	400
5 YEAR USD INTEREST RATE SWAP (F1U)								
F1U	Spec		Increase	USD	1,100	1,000	1,265	1,150
F1U	Hedge/Member		Increase	USD	1,000	1,000	1,150	1,150
5 YR TREASURY NOTE FUTURES (25)								
25	Spec		Increase	USD	880	800	990	900
25	Hedge/Member		Increase	USD	800	800	900	900
EURODOLLAR FUTURES (ED)								
ED	Spec	Tier 03 [contr 09-contr 12]	Increase	USD	495	450	550	500
ED	Hedge/Member	Tier 03 [contr 09-contr 12]	Increase	USD	450	450	500	500
LONG TERM U.S. TREASURY BOND FUTURE (UBE)								
UBE	Spec		Increase	USD	3,960	3,600	4,180	3,800
UBE	Hedge/Member		Increase	USD	3,600	3,600	3,800	3,800
NATURAL GAS - Outright Rates								
TENNESSEE 800 LEG NG BASIS (6Z)								
6Z	Spec	Mnths 2+	Increase	USD	61	55	83	75
6Z	Hedge/Member	Mnths 2+	Increase	USD	55	55	75	75
REFINED PRODUCTS - Outright Rates								
D4 BIODIESEL RINS 2014 (D44)								
D44	Spec	Mnth 1	Increase	USD	6,600	6,000	7,260	6,600
D44	Hedge/Member	Mnth 1	Increase	USD	6,000	6,000	6,600	6,600
D44	Spec	Mnths 2+	Increase	USD	6,600	6,000	7,260	6,600
D44	Hedge/Member	Mnths 2+	Increase	USD	6,000	6,000	6,600	6,600

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

COAL - Intra Spreads

Coal (API 4) fob Richards Bay (Argus/McCloskey) Swap Futures - All Months (COAL API4				RCH BAY ARGS MCCLOSKEY FUT)			
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MFF	Spec		Increase	USD	1,100	1,000	1,320	1,200
MFF	Hedge/Member		Increase	USD	1,000	1,000	1,200	1,200

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
Intra Spreads								
ELECTRICITY - Intra Spreads								
ISO New England Internal Hub Location Marginal Pri - All Months (ISO NEW ENGLAND OFF-PEAK LMP FUT)								
KI	Spec		Increase	USD	4,400	4,000	7,700	7,000
KI	Hedge/Member		Increase	USD	4,000	4,000	7,000	7,000
ISO NEW ENGLAND INTERNAL HUB PEAK LMP SWAP FUTURES - All Months (ISO NEW ENGLAND PEAK LMP FUT)								
NI	Spec		Increase	USD	4,950	4,500	7,150	6,500
NI	Hedge/Member		Increase	USD	4,500	4,500	6,500	6,500
NEEPOOL CONN 5MW DAY AHEAD PEAK - All Months (NEPOOL CONECTIC 5MW D AH PK)								
P2	Spec		Increase	USD	220	200	440	400
P2	Hedge/Member		Increase	USD	200	200	400	400
NEEPOOL INTER HUB 5MW DAY AHEAD OFF PEAK - All Months (NEPOOL INTR HUB 5MW D AH O PK)								
H2	Spec		Increase	USD	17	15	28	25
H2	Hedge/Member		Increase	USD	15	15	25	25
NEPOOL INTER HUB 5MW DAY AHEAD PEAK - All Months (NEPOOL INTR HUB 5MW D AH PK)								
U6	Spec		Increase	USD	330	300	440	400
U6	Hedge/Member		Increase	USD	300	300	400	400
NEPOOL NE MASS 5 MW DAY AHEAD PEAK - All Months (NEPOOL NE MASS 5MW D AH PK)								
P7	Spec		Increase	USD	330	300	440	400
P7	Hedge/Member		Increase	USD	300	300	400	400
NYISO Zone A LBMP Swap - Peak - All Months (NYISO A)								
KA	Spec		Increase	USD	825	750	1,100	1,000
KA	Hedge/Member		Increase	USD	750	750	1,000	1,000
NYISO Zone A LBMP Swap - Peak - All Months (NYISO ZONE A 5MW D AH PK)								
K3	Spec		Increase	USD	165	150	220	200
K3	Hedge/Member		Increase	USD	150	150	200	200
NYISO ZONE E 5 MW DAY AHEAD OFF PEAK - All Months (NYISO ZONE E 5MW OFF- PK CAL MO FUT)								
58	Spec		Increase	USD	17	15	28	25
58	Hedge/Member		Increase	USD	15	15	25	25
NYISO Zone G LBMP Swap - Off-Peak - All Months (NYISO G OFF-PEAK)								
KH	Spec		Increase	USD	3,850	3,500	4,730	4,300
KH	Hedge/Member		Increase	USD	3,500	3,500	4,300	4,300
NYISO Zone G Peak Monthly Swap - All Months (NYISO G)								
KG	Spec		Increase	USD	1,650	1,500	2,750	2,500
KG	Hedge/Member		Increase	USD	1,500	1,500	2,500	2,500

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
Intra Spreads								
NYISO Zone G Peak Monthly Swap - All Months (NYISO ZONE G 5MW D AH PK)								
T3	Spec		Increase	USD	330	300	550	500
T3	Hedge/Member		Increase	USD	300	300	500	500
NYISO Zone J LBMP Swap - Off-Peak - All Months (NYISO J OFF-PEAK)								
KK	Spec		Increase	USD	2,750	2,500	5,500	5,000
KK	Hedge/Member		Increase	USD	2,500	2,500	5,000	5,000
NYISO Zone J LBMP Swap - Peak - All Months (NYISO J)								
KJ	Spec		Increase	USD	1,540	1,400	2,750	2,500
KJ	Hedge/Member		Increase	USD	1,400	1,400	2,500	2,500
NYISO Zone J LBMP Swap - Peak - All Months (NYISO ZONE J 5MW D AH PK)								
D3	Spec		Increase	USD	308	280	550	500
D3	Hedge/Member		Increase	USD	280	280	500	500
PJM Financially Settled Monthly Electricity Futures - All Months (PJM OFF-PEAK LMP FUT)								
JP	Spec		Increase	USD	990	900	1,650	1,500
JP	Hedge/Member		Increase	USD	900	900	1,500	1,500
NATURAL GAS - Intra Spreads								
TCO Natural Gas Index Swap - All Months (TCO NG INDEX FUT)								
Q1	Spec		Increase	USD	110	100	220	200
Q1	Hedge/Member		Increase	USD	100	100	200	200
Tetco M-3 Natural Gas Index Swap (Platts Gas Daily) - All Months (TETCO M-3 INDEX)								
IX	Spec		Increase	USD	110	100	220	200
IX	Hedge/Member		Increase	USD	100	100	200	200
PETROLEUM CRACKS AND SPREADS - Intra Spreads								
RBOB (Platts) vs. NYMEX RBOB Spread Swap - All Months (RBOB SPREAD (PLATTS) FUT)								
RI	Spec		Increase	USD	550	500	715	650
RI	Hedge/Member		Increase	USD	500	500	650	650

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
AGRICULTURE - Inter-commodity Spread Rates						
CORN (C - CME) vs ROUGH RICE (14 - CME)						
Spread Credit Rate	Decrease	+1:-1	60%	60%	50%	50%
COAL - Inter-commodity Spread Rates						
ILLINOIS BASIN COAL FUTURES CONTRACT SPECS (NY-ILB - CME) vs HENRY HUB NATURAL GAS FUTURES (NY-NG - CME)						
Spread Credit Rate	Decrease	+2:-1	30%	30%	0%	0%
CRUDE OIL - Inter-commodity Spread Rates						
COPPER FUTURES (CX-HG - CME) vs BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME)						
Spread Credit Rate	Increase	+1:-1	0%	0%	30%	30%
COPPER FUTURES (CX-HG - CME) vs BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME)						
Spread Credit Rate	Increase	+1:-1	0%	0%	30%	30%
COPPER FUTURES (CX-HG - CME) vs BRENT CRUDE OIL PENULTIMATE FINANCIAL FUTURES (NY-BB - CME)						
Spread Credit Rate	Increase	+1:-1	0%	0%	30%	30%
COPPER FUTURES (CX-HG - CME) vs LIGHT SWEET CRUDE OIL FUTURES (NY-CL - CME)						
Spread Credit Rate	Increase	+1:-1	0%	0%	30%	30%
COPPER FUTURES (CX-HG - CME) vs OMAN CRUDE OIL (NY-OQ - CME)						
Spread Credit Rate	Increase	+1:-1	0%	0%	30%	30%
HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME)						
Spread Credit Rate	New	+1:-1			25%	25%
HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME)						
Spread Credit Rate	New	+1:-1			25%	25%
HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs BRENT CRUDE OIL PENULTIMATE FINANCIAL FUTURES (NY-BB - CME)						
Spread Credit Rate	New	+1:-1			25%	25%
HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs CRUDE OIL FINANCIAL FUTURES (NY-WS - CME)						
Spread Credit Rate	New	+1:-1			25%	25%
HENRY HUB NATURAL GAS PENULTIMATE FINANCIAL FUTURES (NY-HP - CME) vs BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME)						
Spread Credit Rate	New	+1:-1			25%	25%
HENRY HUB NATURAL GAS PENULTIMATE FINANCIAL FUTURES (NY-HP - CME) vs BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME)						
Spread Credit Rate	New	+1:-1			25%	25%

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 PENULTIMATE FINANCIAL FUTURES (NY-HP - CME) vs BRENT CRUDE OIL PENULTIMATE FINANCIAL FUTURES (NY-BB - CME)						
Spread Credit Rate	New	+1:-1			25%	25%
HENRY HUB NATURAL GAS PENULTIMATE FINANCIAL FUTURES (NY-HP - CME) vs CRUDE OIL FINANCIAL FUTURES (NY-WS - CME)						
Spread Credit Rate	New	+1:-1			25%	25%
HENRY HUB NATURAL GAS PENULTIMATE FINANCIAL FUTURES (NY-HP - CME) vs LIGHT SWEET CRUDE OIL FUTURES (NY-CL - CME)						
Spread Credit Rate	New	+1:-1			25%	25%
HENRY HUB NATURAL GAS PENULTIMATE FINANCIAL FUTURES (NY-HP - CME) vs WTI CALENDAR SWAP FUTURES (NY-CS - CME)						
Spread Credit Rate	New	+1:-1			25%	25%
LIGHT SWEET CRUDE OIL FUTURES (NY-CL - CME) vs HENRY HUB NATURAL GAS FUTURES (NY-NG - CME)						
Spread Credit Rate	Increase	+1:-1	0%	0%	25%	25%
NYMEX NATURAL GAS (H.HUB LTD) FUT (NY-HH - CME) vs BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME)						
Spread Credit Rate	New	+1:-1			25%	25%
NYMEX NATURAL GAS (H.HUB LTD) FUT (NY-HH - CME) vs BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME)						
Spread Credit Rate	New	+1:-1			25%	25%
NYMEX NATURAL GAS (H.HUB LTD) FUT (NY-HH - CME) vs BRENT CRUDE OIL PENULTIMATE FINANCIAL FUTURES (NY-BB - CME)						
Spread Credit Rate	New	+1:-1			25%	25%
NYMEX NATURAL GAS (H.HUB LTD) FUT (NY-HH - CME) vs CRUDE OIL FINANCIAL FUTURES (NY-WS - CME)						
Spread Credit Rate	New	+1:-1			25%	25%
NYMEX NATURAL GAS (H.HUB LTD) FUT (NY-HH - CME) vs LIGHT SWEET CRUDE OIL FUTURES (NY-CL - CME)						
Spread Credit Rate	New	+1:-1			25%	25%
NYMEX NATURAL GAS (H.HUB LTD) FUT (NY-HH - CME) vs WTI CALENDAR SWAP FUTURES (NY-CS - CME)						
Spread Credit Rate	New	+1:-1			25%	25%
WTI CALENDAR SWAP FUTURES (NY-CS - CME) vs COPPER FUTURES (CX-HG - CME)						
Spread Credit Rate	Increase	+1:-1	0%	0%	30%	30%
WTI CALENDAR SWAP FUTURES (NY-CS - CME) vs HENRY HUB NATURAL GAS FUTURES (NY-NG - CME)						
Spread Credit Rate	Increase	+1:-1	0%	0%	25%	25%

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	Increase	+1:-1	30%	30%	60%	60%
CINERGY HUB 5 MW OFF-PEAK CALENDAR-MONTH REAL-TIME SWAP (NYM-H4 - CME) vs HENRY HUB NATURAL GAS (NYM-NG, NN, HP)						
Spread Credit Rate	Increase	-194:+1	35%	35%	45%	45%
HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs ISO NEW ENGLAND CONNECTICUT ZONE 5 MW OFF-PEAK CALENDAR-MONTH DAY-AHEAD LMP SWAP FUTURES (NY-P3 - CME)						
Spread Credit Rate	Increase	+1:-194	30%	30%	55%	55%
HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs ISO NEW ENGLAND CONNECTICUT ZONE 5 MW PEAK CALENDAR-MONTH DAY-AHEAD LMP SWAP FUTURES (NY-P2 - CME)						
Spread Credit Rate	Increase	+1:-11	30%	30%	55%	55%
HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs ISO NEW ENGLAND INTERNAL HUB 5 MW OFF-PEAK CALENDAR-MONTH DAY-AHEAD LMP SWAP FUTURES (NY-H2 - CME)						
Spread Credit Rate	Increase	+1:-194	30%	30%	55%	55%
HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs ISO NEW ENGLAND INTERNAL HUB OFF-PEAK LMP SWAP FUTURES (NY-KI - CME)						
Spread Credit Rate	Increase	+1:-1	0%	0%	40%	40%
HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs ISO NEW ENGLAND INTERNAL HUB PEAK LMP SWAP FUTURES (NY-NI - CME)						
Spread Credit Rate	Increase	+1:-1	0%	0%	25%	25%
HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs ISO NEW ENGLAND NEW HAMPSHIRE ZONE 5 MW OFF-PEAK CALENDAR-MONTH DAY-AHEAD LMP SWAP FUTURES (NY-U3 - CME)						
Spread Credit Rate	New	+1:-194			60%	60%
HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs ISO NEW ENGLAND NORTH EAST MASSACHUSETTS ZONE 5 MW OFF-PEAK CALENDAR-MONTH DAY-AHEAD LMP SWAP FUTURES (NY-P8 - CME)						
Spread Credit Rate	Increase	+1:-194	30%	30%	55%	55%
HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs ISO NEW ENGLAND NORTH EAST MASSACHUSETTS ZONE 5 MW PEAK CALENDAR-MONTH DAY-AHEAD LMP SWAP FUTURES (NY-P7 - CME)						
Spread Credit Rate	Increase	+1:-11	30%	30%	55%	55%
HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs ISO NEW ENGLAND RHODE ISLAND ZONE 5 MW OFF-PEAK CALENDAR-MONTH DAY-AHEAD LMP SWAP FUTURES (NY-U5 - CME)						
Spread Credit Rate	Increase	+1:-194	30%	30%	40%	40%
HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs ISO NEW ENGLAND SOUTH EAST MASSACHUSETTS ZONE 5 MW OFF-PEAK CALENDAR-MONTH DAY-AHEAD LMP SWAP FUTURES (NY-P5 - CME)						
Spread Credit Rate	Increase	+1:-194	30%	30%	55%	55%
HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs ISO NEW ENGLAND SOUTH EAST MASSACHUSETTS ZONE 5 MW PEAK CALENDAR-MONTH DAY-AHEAD LMP SWAP FUTURES (NY-P4 - CME)						
Spread Credit Rate	Increase	+1:-11	30%	30%	60%	60%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs MID-COLUMBIA DAY-AHEAD OFF-PEAK CALENDAR-MONTH 5 MW FUTURES (NY-OMC - CME)						
Spread Credit Rate	New	+1:-194			30%	30%
HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs MID-COLUMBIA DAY-AHEAD PEAK CALENDAR-MONTH 5 MW FUTURES (NY-MDC - CME)						
Spread Credit Rate	New	+1:-11			30%	30%
HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs MIDWEST ISO CINERGY HUB 5 MW OFF-PEAK CALENDAR MONTH REAL-TIME SWAP FUTURES (NY-H4 - CME)						
Spread Credit Rate	Increase	+1:-194	35%	35%	45%	45%
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	Increase	+1:-11	45%	45%	60%	60%
HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs MIDWEST ISO CINERGY HUB 5MW OFF-PEAK CALENDAR-MONTH DAY-AHEAD SWAP FUTURES (NY-K2 - CME)						
Spread Credit Rate	New	+1:-194			45%	45%
HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs MIDWEST ISO INDIANA HUB 5 MW OFF-PEAK CALENDAR-MONTH REAL-TIME SWAP FUTURES (NY-FTM - CME)						
Spread Credit Rate	Decrease	+1:-1	30%	30%	0%	0%
HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs MIDWEST ISO INDIANA HUB 5 MW PEAK CALENDAR-MONTH DAY-AHEAD SWAP FUTURES (NY-PDM - CME)						
Spread Credit Rate	Increase	+1:-11	30%	30%	50%	50%
HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs MIDWEST ISO INDIANA HUB 5 MW PEAK CALENDAR-MONTH REAL-TIME SWAP FUTURES (NY-PTM - CME)						
Spread Credit Rate	Increase	+1:-11	30%	30%	50%	50%
HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs MIDWEST ISO MICHIGAN HUB 5 MW PEAK CALENDAR-MONTH DAY-AHEAD SWAP FUTURES (NY-HMW - CME)						
Spread Credit Rate	New	+1:-11			50%	50%
HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs MINI ERCOT NORTH 345 KV HUB 50 MW PEAK FUTURES (NY-I5 - CME)						
Spread Credit Rate	Increase	+1:-11	55%	55%	65%	65%
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	Increase	+1:-194	40%	40%	60%	60%
HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs NYISO ZONE A OFF-PEAK LBMP SWAP FUTURES (NY-KB - CME)						
Spread Credit Rate	Increase	+1:-1	30%	30%	40%	40%
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	Increase	+1:-194	30%	30%	50%	50%

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 C 5 MW PEAK CALENDAR-MONTH DAY-AHEAD LBMP SWAP FUTURES (NY-Q5 - CME)						
Spread Credit Rate	Increase	+1:-11	25%	25%	55%	55%
HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs NYISO ZONE E 5 MW OFF-PEAK CALENDAR-MONTH DAY-AHEAD LBMP SWAP FUTURES (NY-58 - CME)						
Spread Credit Rate	New	+1:-194			40%	40%
HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs NYISO ZONE F 5 MW PEAK CALENDAR-MONTH DAY-AHEAD LBMP SWAP FUTURES (NY-4L - CME)						
Spread Credit Rate	Decrease	+1:-11	30%	30%	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	Increase	+1:-194	45%	45%	50%	50%
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	Increase	+1:-194	30%	30%	45%	45%
HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs ONTARIO OFF-PEAK CALENDAR-MONTH SWAP FUTURES (NY-OFM - CME)						
Spread Credit Rate	New	+1:-194			30%	30%
HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs ONTARIO PEAK CALENDAR-MONTH SWAP FUTURES (NY-OPM - CME)						
Spread Credit Rate	New	+1:-11			40%	40%
HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs PALO VERDE DAY-AHEAD OFF-PEAK CALENDAR-MONTH 5 MW FUTURES (NY-OVD - CME)						
Spread Credit Rate	New	+1:-194			40%	40%
HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs PALO VERDE DAY-AHEAD PEAK CALENDAR-MONTH 5 MW FUTURES (NY-PVD - CME)						
Spread Credit Rate	Increase	+1:-11	30%	30%	50%	50%
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	New	+1:-194			50%	50%
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	Increase	+1:-11	40%	40%	65%	65%
HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs PJM AEP DAYTON HUB 5MW PEAK CALENDAR-MONTH REAL-TIME LMP SWAP FUTURES (NY-Z9 - CME)						
Spread Credit Rate	Increase	+1:-11	30%	30%	60%	60%
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	Increase	+1:-194	35%	35%	60%	60%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs PJM AEP DAYTON HUB OFF-PEAK LMP SWAP FUTURES (NY-VP - CME)						
Spread Credit Rate	Increase	+1:-1	30%	30%	55%	55%
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	Increase	+1:-11	45%	45%	60%	60%
HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs PJM AEP DAYTON HUB PEAK CALENDAR-MONTH LMP SWAP FUTURES (NY-VM - CME)						
Spread Credit Rate	Increase	+1:-1	45%	45%	60%	60%
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	New	+1:-194			60%	60%
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	Increase	+1:-11	40%	40%	65%	65%
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	Increase	+1:-194	60%	60%	65%	65%
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	Increase	+1:-11	30%	30%	60%	60%
HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs PJM COMED ZONE 5 MW OFF-PEAK CALENDAR-MONTH DAY-AHEAD LMP SWAP FUTURES (NY-D9 - CME)						
Spread Credit Rate	New	+1:-194			55%	55%
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	Increase	+1:-11	30%	30%	60%	60%
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	Increase	+1:-11	50%	50%	65%	65%
HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs PJM METED ZONE OFF-PEAK CALENDAR-MONTH DAY-AHEAD LMP SWAP FUTURES (NY-46 - CME)						
Spread Credit Rate	Increase	+1:-194	30%	30%	50%	50%
HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs PJM METED ZONE PEAK CALENDAR-MONTH DAY-AHEAD LMP SWAP FUTURES (NY-47 - CME)						
Spread Credit Rate	New	+1:-11			50%	50%
HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs PJM NORTHERN ILLINOIS HUB 5 MW OFF-PEAK CALENDAR-MONTH REAL-TIME LMP SWAP FUTURES (NY-B6 - CME)						
Spread Credit Rate	Increase	+1:-194	35%	35%	55%	55%

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 NORTHERN ILLINOIS HUB 5 MW PEAK CALENDAR-MONTH REAL-TIME LMP SWAP FUTURES (NY-B3 - CME)						
Spread Credit Rate	Increase	+1:-11	50%	50%	60%	60%
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	New	+1:-194			55%	55%
HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs PJM NORTHERN ILLINOIS HUB OFF-PEAK LMP SWAP FUTURES (NY-UO - CME)						
Spread Credit Rate	Increase	+1:-1	45%	45%	50%	50%
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	Increase	+1:-11	30%	30%	60%	60%
HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs PJM PEAK CALENDAR-MONTH LMP SWAP FUTURES (NY-JM - CME)						
Spread Credit Rate	Increase	+1:-1	55%	55%	65%	65%
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	Increase	+1:-194	50%	50%	60%	60%
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	Increase	+1:-11	40%	40%	65%	65%
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	New	+1:-194			60%	60%
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	Increase	+1:-11	40%	40%	60%	60%
HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs PJM WESTERN HUB OFF-PEAK CALENDAR-MONTH DAY-AHEAD LMP SWAP FUTURES (NY-E4 - CME)						
Spread Credit Rate	New	+1:-194			60%	60%
HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs PJM WESTERN HUB PEAK CALENDAR-MONTH DAY-AHEAD LMP SWAP FUTURES (NY-J4 - CME)						
Spread Credit Rate	Increase	+1:-11	25%	25%	60%	60%
HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs PJM WESTERN HUB PEAK CALENDAR-MONTH REAL-TIME LMP SWAP FUTURES (NY-L1 - CME)						
Spread Credit Rate	Increase	+1:-11	30%	30%	65%	65%
ISO NEW ENGLAND INTERNAL HUB 5 MW PEAK CALENDAR-MONTH DAY-AHEAD LMP SWAP FUTURES (NY-U6 - CME) vs HENRY HUB NATURAL GAS FUTURES (NY-NG - CME)						
Spread Credit Rate	Increase	+11:-1	30%	30%	55%	55%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
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	Increase	-11:+1	45%	45%	60%	60%
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	Increase	+1:-1	30%	30%	45%	45%
NEPOOL INTERNAL HUB 5 MW OFF-PEAK CALENDAR-MONTH DAY -AHEAD SWAP (NYM-H2 - CME) vs HENRY HUB NATURAL GAS (NYM-NG, NN, HP)						
Spread Credit Rate	Increase	+194:-1	30%	30%	55%	55%
NORTHERN ILLINOIS HUB PEAK MONTHLY SWAP (NYM-UM - CME) vs HENRY HUB NATURAL GAS (NYM-NG, NN, HP)						
Spread Credit Rate	Increase	+1:-1	40%	40%	65%	65%
NYISO ZONE G PEAK LBMP SWAP FUTURES (NY-KG - CME) vs HENRY HUB NATURAL GAS FUTURES (NY-NG - CME)						
Spread Credit Rate	Increase	+2:-1	0%	0%	25%	25%
NYISO ZONE J PEAK LBMP SWAP FUTURES (NY-KJ - CME) vs HENRY HUB NATURAL GAS FUTURES (NY-NG - CME)						
Spread Credit Rate	Increase	+2:-1	0%	0%	25%	25%
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	Increase	-194:+1	35%	35%	60%	60%
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	Increase	-11:+1	30%	30%	60%	60%
PJM AEP DAYTON HUB OFF-PEAK LMP SWAP FUTURES (NY-VP - CME) vs HENRY HUB NATURAL GAS FUTURES (NY-NG - CME)						
Spread Credit Rate	Increase	+1:-1	30%	30%	55%	55%
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	Increase	+194:-1	35%	35%	55%	55%
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	Increase	+11:-1	30%	30%	60%	60%
PJM NORTHERN ILLINOIS HUB OFF-PEAK LMP SWAP FUTURES (NY-UO - CME) vs HENRY HUB NATURAL GAS FUTURES (NY-NG - CME)						
Spread Credit Rate	Increase	+1:-1	30%	30%	50%	50%
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	New	-194:+1			60%	60%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
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	Increase	+11:-1	40%	40%	60%	60%
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	Increase	+194:-1	25%	25%	60%	60%
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	Increase	+194:-1	30%	30%	60%	60%
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	Increase	-11:+1	25%	25%	60%	60%
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	Increase	-11:+1	30%	30%	65%	65%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
EQUITY INDEX - Inter-commodity Spread Rates						
Dow Jones (CBOT) (11) vs. CBOT Dow Jones Real Estate Index (JR)						
Spread Credit Rate	Decrease	+1:-2	60%	60%	30%	30%
Dow Jones (CBOT) (11) vs. S&P 500 Value Index (SU)						
Spread Credit Rate	Decrease	+3:-2	80%	80%	65%	65%
EMINI SP 500 CONS STAPLES SECTOR IX (XAP) vs EMINI SP500-UTILITIES SECTOR INDEX (XAU)						
Spread Credit Rate	Decrease	+1:-1	60%	60%	50%	50%
EMINI SP 500 ENERGY SECTOR INDEX (XAE) vs EMINI SP 500 CONS STAPLES SECTOR IX (XAP)						
Spread Credit Rate	Decrease	+1:-3	60%	60%	30%	30%
EMINI SP 500 ENERGY SECTOR INDEX (XAE) vs EMINI SP500 - FINANCIAL SECT INDEX (XAF)						
Spread Credit Rate	Decrease	+1:-2	50%	50%	30%	30%
EMINI SP 500 ENERGY SECTOR INDEX (XAE) vs EMINI SP500- HEALTH CARE SECT INDEX (XAV)						
Spread Credit Rate	Decrease	+1:-1	40%	40%	25%	25%
EMINI SP 500 ENERGY SECTOR INDEX (XAE) vs EMINI SP500-TECHNOLOGY SECTOR INDEX (XAK)						
Spread Credit Rate	Decrease	+1:-2	60%	60%	40%	40%
EMINI SP 500 ENERGY SECTOR INDEX (XAE) vs S&P 500 FUTURES (SP)						
Spread Credit Rate	Decrease	+1:-1	75%	75%	60%	60%
EMINI SP500 - FINANCIAL SECT INDEX (XAF) vs EMINI SP 500 CONS STAPLES SECTOR IX (XAP)						
Spread Credit Rate	Decrease	+1:-1	70%	70%	60%	60%
EMINI SP500 - FINANCIAL SECT INDEX (XAF) vs EMINI SP500-INDUSTRIAL SECTOR INDEX (XAI)						
Spread Credit Rate	Decrease	+1:-1	75%	75%	65%	65%
EMINI SP500 - FINANCIAL SECT INDEX (XAF) vs S&P 400 FUTURES (MD)						
Spread Credit Rate	Decrease	+12:-1	80%	80%	65%	65%
EMINI SP500- HEALTH CARE SECT INDEX (XAV) vs NASDAQ 100 FUTURES (ND)						
Spread Credit Rate	Decrease	+1:-1	75%	75%	65%	65%
EMINI SP500- HEALTH CARE SECT INDEX (XAV) vs NIKKEI 225 FUTURES (NK)						
Spread Credit Rate	Decrease	+3:-2	65%	65%	40%	40%
EMINI SP500 MATERIALS SECTOR INDEX (XAB) vs EMINI SP500-TECHNOLOGY SECTOR INDEX (XAK)						
Spread Credit Rate	Decrease	+3:-2	70%	70%	50%	50%
EMINI SP500 MATERIALS SECTOR INDEX (XAB) vs NASDAQ 100 FUTURES (ND)						
Spread Credit Rate	Decrease	+6:-1	65%	65%	55%	55%
EMINI SP500-INDUSTRIAL SECTOR INDEX (XAI) vs E-MINI SP500 CONS DISCRET SECTOR IX (XAY)						
Spread Credit Rate	Decrease	+1:-1	80%	80%	65%	65%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
EMINI SP500-INDUSTRIAL SECTOR INDEX (XAI) vs EMINI SP500-UTILITIES SECTOR INDEX (XAU)						
Spread Credit Rate	Decrease	+1:-1	30%	30%	0%	0%
EMINI SP500-INDUSTRIAL SECTOR INDEX (XAI) vs NASDAQ 100 FUTURES (ND)						
Spread Credit Rate	Decrease	+6:-1	75%	75%	60%	60%
EMINI SP500-INDUSTRIAL SECTOR INDEX (XAI) vs S&P 500 FUTURES (SP)						
Spread Credit Rate	Decrease	+2:-1	80%	80%	70%	70%
EMINI SP500-UTILITIES SECTOR INDEX (XAU) vs EMINI SP500- HEALTH CARE SECT INDEX (XAV)						
Spread Credit Rate	Decrease	+1:-1	50%	50%	30%	30%
EMINI SP500-UTILITIES SECTOR INDEX (XAU) vs NIKKEI 225 FUTURES (NK)						
Spread Credit Rate	Decrease	+1:-1	40%	40%	0%	0%
EMINI SP500-UTILITIES SECTOR INDEX (XAU) vs S&P 400 FUTURES (MD)						
Spread Credit Rate	Decrease	+3:-1	40%	40%	25%	25%
S&P MIDCAP 400 (MD - CME) vs S&P SELECT SECTOR - ENERGY (XAE - CME)						
Spread Credit Rate	Decrease	+1:-6	65%	65%	60%	60%
S&P Midcap 400 (MD) vs. S&P Small Cap 600 (SMP)						
Spread Credit Rate	Decrease	+1:-2	80%	80%	65%	65%
METALS - Inter-commodity Spread Rates						
COMEX COPPER (CMX-HG - CME) vs COMEX SILVER (CMX-SI - CME)						
Spread Credit Rate	Increase	+2:-1	50%	50%	60%	60%
COPPER FUTURES (CX-HG - CME) vs BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME)						
Spread Credit Rate	Increase	+1:-1	0%	0%	30%	30%
COPPER FUTURES (CX-HG - CME) vs BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME)						
Spread Credit Rate	Increase	+1:-1	0%	0%	30%	30%
COPPER FUTURES (CX-HG - CME) vs BRENT CRUDE OIL PENULTIMATE FINANCIAL FUTURES (NY-BB - CME)						
Spread Credit Rate	Increase	+1:-1	0%	0%	30%	30%
COPPER FUTURES (CX-HG - CME) vs LIGHT SWEET CRUDE OIL FUTURES (NY-CL - CME)						
Spread Credit Rate	Increase	+1:-1	0%	0%	30%	30%
COPPER FUTURES (CX-HG - CME) vs OMAN CRUDE OIL (NY-OQ - CME)						
Spread Credit Rate	Increase	+1:-1	0%	0%	30%	30%
WTI CALENDAR SWAP FUTURES (NY-CS - CME) vs COPPER FUTURES (CX-HG - CME)						
Spread Credit Rate	Increase	+1:-1	0%	0%	30%	30%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
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	Increase	+1:-1	30%	30%	60%	60%
CINERGY HUB 5 MW OFF-PEAK CALENDAR-MONTH REAL-TIME SWAP (NYM-H4 - CME) vs HENRY HUB NATURAL GAS (NYM-NG, NN, HP)						
Spread Credit Rate	Increase	-194:+1	35%	35%	45%	45%
COLUMBIA GULF MAINLINE BASIS SWAP (PLATTS IFERC) FUTURES (NY-5Z - CME) vs TENNESSEE 800 LEG BASIS SWAP (PLATTS IFERC) FUTURES (NY-6Z - CME)						
Spread Credit Rate	Decrease	+1:-1	55%	55%	30%	30%
HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs ALGONQUIN NATURAL GAS (PLATTS IFERC) FIXED PRICE FUTURES (NY-XAC - CME)						
Spread Credit Rate	Decrease	+1:-4	80%	80%	60%	60%
HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME)						
Spread Credit Rate	New	+1:-1			25%	25%
HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME)						
Spread Credit Rate	New	+1:-1			25%	25%
HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs BRENT CRUDE OIL PENULTIMATE FINANCIAL FUTURES (NY-BB - CME)						
Spread Credit Rate	New	+1:-1			25%	25%
HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs CRUDE OIL FINANCIAL FUTURES (NY-WS - CME)						
Spread Credit Rate	New	+1:-1			25%	25%
HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs DOMINION, SOUTH POINT NATURAL GAS SWING SWAP (PLATTS GAS DAILY) FUTURES (NY-SH - CME)						
Spread Credit Rate	New	+1:-4			40%	40%
HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs ISO NEW ENGLAND CONNECTICUT ZONE 5 MW OFF-PEAK CALENDAR-MONTH DAY-AHEAD LMP SWAP FUTURES (NY-P3 - CME)						
Spread Credit Rate	Increase	+1:-194	30%	30%	55%	55%
HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs ISO NEW ENGLAND CONNECTICUT ZONE 5 MW PEAK CALENDAR-MONTH DAY-AHEAD LMP SWAP FUTURES (NY-P2 - CME)						
Spread Credit Rate	Increase	+1:-11	30%	30%	55%	55%
HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs ISO NEW ENGLAND INTERNAL HUB 5 MW OFF-PEAK CALENDAR-MONTH DAY-AHEAD LMP SWAP FUTURES (NY-H2 - CME)						
Spread Credit Rate	Increase	+1:-194	30%	30%	55%	55%
HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs ISO NEW ENGLAND INTERNAL HUB OFF-PEAK LMP SWAP FUTURES (NY-KI - CME)						
Spread Credit Rate	Increase	+1:-1	0%	0%	40%	40%

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 ISO NEW ENGLAND INTERNAL HUB PEAK LMP SWAP FUTURES (NY-NI - CME)						
Spread Credit Rate	Increase	+1:-1	0%	0%	25%	25%
HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs ISO NEW ENGLAND NEW HAMPSHIRE ZONE 5 MW OFF-PEAK CALENDAR-MONTH DAY-AHEAD LMP SWAP FUTURES (NY-U3 - CME)						
Spread Credit Rate	New	+1:-194			60%	60%
HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs ISO NEW ENGLAND NORTH EAST MASSACHUSETTS ZONE 5 MW OFF-PEAK CALENDAR-MONTH DAY-AHEAD LMP SWAP FUTURES (NY-P8 - CME)						
Spread Credit Rate	Increase	+1:-194	30%	30%	55%	55%
HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs ISO NEW ENGLAND NORTH EAST MASSACHUSETTS ZONE 5 MW PEAK CALENDAR-MONTH DAY-AHEAD LMP SWAP FUTURES (NY-P7 - CME)						
Spread Credit Rate	Increase	+1:-11	30%	30%	55%	55%
HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs ISO NEW ENGLAND RHODE ISLAND ZONE 5 MW OFF-PEAK CALENDAR-MONTH DAY-AHEAD LMP SWAP FUTURES (NY-U5 - CME)						
Spread Credit Rate	Increase	+1:-194	30%	30%	40%	40%
HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs ISO NEW ENGLAND SOUTH EAST MASSACHUSETTS ZONE 5 MW OFF-PEAK CALENDAR-MONTH DAY-AHEAD LMP SWAP FUTURES (NY-P5 - CME)						
Spread Credit Rate	Increase	+1:-194	30%	30%	55%	55%
HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs ISO NEW ENGLAND SOUTH EAST MASSACHUSETTS ZONE 5 MW PEAK CALENDAR-MONTH DAY-AHEAD LMP SWAP FUTURES (NY-P4 - CME)						
Spread Credit Rate	Increase	+1:-11	30%	30%	60%	60%
HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs MID-COLUMBIA DAY-AHEAD OFF-PEAK CALENDAR-MONTH 5 MW FUTURES (NY-OMC - CME)						
Spread Credit Rate	New	+1:-194			30%	30%
HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs MID-COLUMBIA DAY-AHEAD PEAK CALENDAR-MONTH 5 MW FUTURES (NY-MDC - CME)						
Spread Credit Rate	New	+1:-11			30%	30%
HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs MIDWEST ISO CINERGY HUB 5 MW OFF-PEAK CALENDAR MONTH REAL-TIME SWAP FUTURES (NY-H4 - CME)						
Spread Credit Rate	Increase	+1:-194	35%	35%	45%	45%
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	Increase	+1:-11	45%	45%	60%	60%
HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs MIDWEST ISO CINERGY HUB 5MW OFF-PEAK CALENDAR-MONTH DAY-AHEAD SWAP FUTURES (NY-K2 - CME)						
Spread Credit Rate	New	+1:-194			45%	45%
HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs MIDWEST ISO INDIANA HUB 5 MW OFF-PEAK CALENDAR-MONTH REAL-TIME SWAP FUTURES (NY-FTM - CME)						
Spread Credit Rate	Decrease	+1:-1	30%	30%	0%	0%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs MIDWEST ISO INDIANA HUB 5 MW PEAK CALENDAR-MONTH DAY-AHEAD SWAP FUTURES (NY-PDM - CME)						
Spread Credit Rate	Increase	+1:-11	30%	30%	50%	50%
HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs MIDWEST ISO INDIANA HUB 5 MW PEAK CALENDAR-MONTH REAL-TIME SWAP FUTURES (NY-PTM - CME)						
Spread Credit Rate	Increase	+1:-11	30%	30%	50%	50%
HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs MIDWEST ISO MICHIGAN HUB 5 MW PEAK CALENDAR-MONTH DAY-AHEAD SWAP FUTURES (NY-HMW - CME)						
Spread Credit Rate	New	+1:-11			50%	50%
HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs MINI ERCOT NORTH 345 KV HUB 50 MW PEAK FUTURES (NY-I5 - CME)						
Spread Credit Rate	Increase	+1:-11	55%	55%	65%	65%
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	Increase	+1:-194	40%	40%	60%	60%
HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs NYISO ZONE A OFF-PEAK LBMP SWAP FUTURES (NY-KB - CME)						
Spread Credit Rate	Increase	+1:-1	30%	30%	40%	40%
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	Increase	+1:-194	30%	30%	50%	50%
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	Increase	+1:-11	25%	25%	55%	55%
HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs NYISO ZONE E 5 MW OFF-PEAK CALENDAR-MONTH DAY-AHEAD LBMP SWAP FUTURES (NY-58 - CME)						
Spread Credit Rate	New	+1:-194			40%	40%
HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs NYISO ZONE F 5 MW PEAK CALENDAR-MONTH DAY-AHEAD LBMP SWAP FUTURES (NY-4L - CME)						
Spread Credit Rate	Decrease	+1:-11	30%	30%	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	Increase	+1:-194	45%	45%	50%	50%
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	Increase	+1:-194	30%	30%	45%	45%
HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs ONTARIO OFF-PEAK CALENDAR-MONTH SWAP FUTURES (NY-OFM - CME)						
Spread Credit Rate	New	+1:-194			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 ONTARIO PEAK CALENDAR-MONTH SWAP FUTURES (NY-OPM - CME)						
Spread Credit Rate	New	+1:-11			40%	40%
HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs PALO VERDE DAY-AHEAD OFF-PEAK CALENDAR-MONTH 5 MW FUTURES (NY-OVD - CME)						
Spread Credit Rate	New	+1:-194			40%	40%
HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs PALO VERDE DAY-AHEAD PEAK CALENDAR-MONTH 5 MW FUTURES (NY-PVD - CME)						
Spread Credit Rate	Increase	+1:-11	30%	30%	50%	50%
HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs PANHANDLE NATURAL GAS SWING (PLATTS GAS DAILY) FUTURES (NY-SV - CME)						
Spread Credit Rate	New	+1:-4			45%	45%
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	New	+1:-194			50%	50%
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	Increase	+1:-11	40%	40%	65%	65%
HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs PJM AEP DAYTON HUB 5MW PEAK CALENDAR-MONTH REAL-TIME LMP SWAP FUTURES (NY-Z9 - CME)						
Spread Credit Rate	Increase	+1:-11	30%	30%	60%	60%
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	Increase	+1:-194	35%	35%	60%	60%
HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs PJM AEP DAYTON HUB OFF-PEAK LMP SWAP FUTURES (NY-VP - CME)						
Spread Credit Rate	Increase	+1:-1	30%	30%	55%	55%
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	Increase	+1:-11	45%	45%	60%	60%
HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs PJM AEP DAYTON HUB PEAK CALENDAR-MONTH LMP SWAP FUTURES (NY-VM - CME)						
Spread Credit Rate	Increase	+1:-1	45%	45%	60%	60%
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	New	+1:-194			60%	60%
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	Increase	+1:-11	40%	40%	65%	65%

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 BGE ZONE OFF-PEAK CALENDAR-MONTH DAY-AHEAD LMP SWAP FUTURES (NY-R3 - CME)						
Spread Credit Rate	Increase	+1:-194	60%	60%	65%	65%
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	Increase	+1:-11	30%	30%	60%	60%
HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs PJM COMED ZONE 5 MW OFF-PEAK CALENDAR-MONTH DAY-AHEAD LMP SWAP FUTURES (NY-D9 - CME)						
Spread Credit Rate	New	+1:-194			55%	55%
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	Increase	+1:-11	30%	30%	60%	60%
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	Increase	+1:-11	50%	50%	65%	65%
HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs PJM METED ZONE OFF-PEAK CALENDAR-MONTH DAY-AHEAD LMP SWAP FUTURES (NY-46 - CME)						
Spread Credit Rate	Increase	+1:-194	30%	30%	50%	50%
HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs PJM METED ZONE PEAK CALENDAR-MONTH DAY-AHEAD LMP SWAP FUTURES (NY-47 - CME)						
Spread Credit Rate	New	+1:-11			50%	50%
HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs PJM NORTHERN ILLINOIS HUB 5 MW OFF-PEAK CALENDAR-MONTH REAL-TIME LMP SWAP FUTURES (NY-B6 - CME)						
Spread Credit Rate	Increase	+1:-194	35%	35%	55%	55%
HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs PJM NORTHERN ILLINOIS HUB 5 MW PEAK CALENDAR-MONTH REAL-TIME LMP SWAP FUTURES (NY-B3 - CME)						
Spread Credit Rate	Increase	+1:-11	50%	50%	60%	60%
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	New	+1:-194			55%	55%
HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs PJM NORTHERN ILLINOIS HUB OFF-PEAK LMP SWAP FUTURES (NY-UO - CME)						
Spread Credit Rate	Increase	+1:-1	45%	45%	50%	50%
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	Increase	+1:-11	30%	30%	60%	60%
HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs PJM PEAK CALENDAR-MONTH LMP SWAP FUTURES (NY-JM - CME)						
Spread Credit Rate	Increase	+1:-1	55%	55%	65%	65%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
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	Increase	+1:-194	50%	50%	60%	60%
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	Increase	+1:-11	40%	40%	65%	65%
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	New	+1:-194			60%	60%
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	Increase	+1:-11	40%	40%	60%	60%
HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs PJM WESTERN HUB OFF-PEAK CALENDAR-MONTH DAY-AHEAD LMP SWAP FUTURES (NY-E4 - CME)						
Spread Credit Rate	New	+1:-194			60%	60%
HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs PJM WESTERN HUB PEAK CALENDAR-MONTH DAY-AHEAD LMP SWAP FUTURES (NY-J4 - CME)						
Spread Credit Rate	Increase	+1:-11	25%	25%	60%	60%
HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs PJM WESTERN HUB PEAK CALENDAR-MONTH REAL-TIME LMP SWAP FUTURES (NY-L1 - CME)						
Spread Credit Rate	Increase	+1:-11	30%	30%	65%	65%
HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs TRANSCO ZONE 6 BASIS SWAP (PLATTS IFERC) FUTURES (NY-NZ - CME) vs TRANSCO ZONE 6 NATURAL GAS (PLATTS IFERC) FIXED PRICE FUTURES (NY-XZ - CME)						
Spread Credit Rate	New	+1:+4:-4			95%	95%
HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs TRANSCO ZONE 6 NATURAL GAS (PLATTS IFERC) FIXED PRICE FUTURES (NY-XZ - CME)						
Spread Credit Rate	Decrease	+1:-4	70%	70%	0%	0%
HENRY HUB NATURAL GAS FUTURES (NY-NG - CME) vs WAHA NATURAL GAS SWING (PLATTS GAS DAILY) FUTURES (NY-SY - CME)						
Spread Credit Rate	New	+1:-4			45%	45%
HENRY HUB NATURAL GAS PENULTIMATE FINANCIAL FUTURES (NY-HP - CME) vs BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME)						
Spread Credit Rate	New	+1:-1			25%	25%
HENRY HUB NATURAL GAS PENULTIMATE FINANCIAL FUTURES (NY-HP - CME) vs BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME)						
Spread Credit Rate	New	+1:-1			25%	25%
HENRY HUB NATURAL GAS PENULTIMATE FINANCIAL FUTURES (NY-HP - CME) vs BRENT CRUDE OIL PENULTIMATE FINANCIAL FUTURES (NY-BB - CME)						
Spread Credit Rate	New	+1:-1			25%	25%

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 PENULTIMATE FINANCIAL FUTURES (NY-HP - CME) vs CRUDE OIL FINANCIAL FUTURES (NY-WS - CME)						
Spread Credit Rate	New	+1:-1			25%	25%
HENRY HUB NATURAL GAS PENULTIMATE FINANCIAL FUTURES (NY-HP - CME) vs LIGHT SWEET CRUDE OIL FUTURES (NY-CL - CME)						
Spread Credit Rate	New	+1:-1			25%	25%
HENRY HUB NATURAL GAS PENULTIMATE FINANCIAL FUTURES (NY-HP - CME) vs WTI CALENDAR SWAP FUTURES (NY-CS - CME)						
Spread Credit Rate	New	+1:-1			25%	25%
ILLINOIS BASIN COAL FUTURES CONTRACT SPECS (NY-ILB - CME) vs HENRY HUB NATURAL GAS FUTURES (NY-NG - CME)						
Spread Credit Rate	Decrease	+2:-1	30%	30%	0%	0%
ISO NEW ENGLAND INTERNAL HUB 5 MW PEAK CALENDAR-MONTH DAY-AHEAD LMP SWAP FUTURES (NY-U6 - CME) vs HENRY HUB NATURAL GAS FUTURES (NY-NG - CME)						
Spread Credit Rate	Increase	+11:-1	30%	30%	55%	55%
LIGHT SWEET CRUDE OIL FUTURES (NY-CL - CME) vs HENRY HUB NATURAL GAS FUTURES (NY-NG - CME)						
Spread Credit Rate	Increase	+1:-1	0%	0%	25%	25%
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	Increase	-11:+1	45%	45%	60%	60%
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	Increase	+1:-1	30%	30%	45%	45%
NEPOOL INTERNAL HUB 5 MW OFF-PEAK CALENDAR-MONTH DAY -AHEAD SWAP (NYM-H2 - CME) vs HENRY HUB NATURAL GAS (NYM-NG, NN, HP)						
Spread Credit Rate	Increase	+194:-1	30%	30%	55%	55%
NORTHERN ILLINOIS HUB PEAK MONTHLY SWAP (NYM-UM - CME) vs HENRY HUB NATURAL GAS (NYM-NG, NN, HP)						
Spread Credit Rate	Increase	+1:-1	40%	40%	65%	65%
NYISO ZONE G PEAK LBMP SWAP FUTURES (NY-KG - CME) vs HENRY HUB NATURAL GAS FUTURES (NY-NG - CME)						
Spread Credit Rate	Increase	+2:-1	0%	0%	25%	25%
NYISO ZONE J PEAK LBMP SWAP FUTURES (NY-KJ - CME) vs HENRY HUB NATURAL GAS FUTURES (NY-NG - CME)						
Spread Credit Rate	Increase	+2:-1	0%	0%	25%	25%
NYMEX NATURAL GAS (H.HUB LTD) FUT (NY-HH - CME) vs BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME)						
Spread Credit Rate	New	+1:-1			25%	25%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
NYMEX NATURAL GAS (H.HUB LTD) FUT (NY-HH - CME) vs BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME)						
Spread Credit Rate	New	+1:-1			25%	25%
NYMEX NATURAL GAS (H.HUB LTD) FUT (NY-HH - CME) vs BRENT CRUDE OIL PENULTIMATE FINANCIAL FUTURES (NY-BB - CME)						
Spread Credit Rate	New	+1:-1			25%	25%
NYMEX NATURAL GAS (H.HUB LTD) FUT (NY-HH - CME) vs CRUDE OIL FINANCIAL FUTURES (NY-WS - CME)						
Spread Credit Rate	New	+1:-1			25%	25%
NYMEX NATURAL GAS (H.HUB LTD) FUT (NY-HH - CME) vs LIGHT SWEET CRUDE OIL FUTURES (NY-CL - CME)						
Spread Credit Rate	New	+1:-1			25%	25%
NYMEX NATURAL GAS (H.HUB LTD) FUT (NY-HH - CME) vs WTI CALENDAR SWAP FUTURES (NY-CS - CME)						
Spread Credit Rate	New	+1:-1			25%	25%
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	Increase	-194:+1	35%	35%	60%	60%
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	Increase	-11:+1	30%	30%	60%	60%
PJM AEP DAYTON HUB OFF-PEAK LMP SWAP FUTURES (NY-VP - CME) vs HENRY HUB NATURAL GAS FUTURES (NY-NG - CME)						
Spread Credit Rate	Increase	+1:-1	30%	30%	55%	55%
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	Increase	+194:-1	35%	35%	55%	55%
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	Increase	+11:-1	30%	30%	60%	60%
PJM NORTHERN ILLINOIS HUB OFF-PEAK LMP SWAP FUTURES (NY-UO - CME) vs HENRY HUB NATURAL GAS FUTURES (NY-NG - CME)						
Spread Credit Rate	Increase	+1:-1	30%	30%	50%	50%
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	New	-194:+1			60%	60%
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	Increase	+11:-1	40%	40%	60%	60%
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	Increase	+194:-1	25%	25%	60%	60%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
PJM WESTERN HUB OFF-PEAK CALENDAR-MONTH REAL-TIME LMP SWAP (NYM-N9 - CME) vs HENRY HUB NATURAL GAS (NYM-NG, NN, HP)						
Spread Credit Rate	Increase	+194:-1	30%	30%	60%	60%
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	Increase	-11:+1	25%	25%	60%	60%
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	Increase	-11:+1	30%	30%	65%	65%
WTI CALENDAR SWAP FUTURES (NY-CS - CME) vs HENRY HUB NATURAL GAS FUTURES (NY-NG - CME)						
Spread Credit Rate	Increase	+1:-1	0%	0%	25%	25%