



15-114

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

FROM: CME Clearing

SUBJECT: Performance Bond Requirements

DATE: Thursday, April 23, 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>***

***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, April 24, 2015.**

Current rates as of:

**Wednesday, April 22, 2015.**

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
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### Outright Rates

#### AGRICULTURE - Outright Rates

##### CASH BUTTER FUTURES (CB)

CB	Spec	Months 1-4	Decrease	USD	2,750	2,500	2,585	2,350
CB	Hedge/Member	Months 1-4	Decrease	USD	2,500	2,500	2,350	2,350
CB	Spec	Months 5-	Decrease	USD	1,925	1,750	1,760	1,600
CB	Hedge/Member	Months 5-	Decrease	USD	1,750	1,750	1,600	1,600

##### CLASS IV MILK FUTURE (DK)

DK	Spec	Months 2-5	Decrease	USD	2,200	2,000	1,870	1,700
DK	Hedge/Member	Months 2-5	Decrease	USD	2,000	2,000	1,700	1,700

##### CME DRY WHEY FUTURES (DY)

DY	Spec	Month 3+	Increase	USD	1,925	1,750	2,090	1,900
DY	Hedge/Member	Month 3+	Increase	USD	1,750	1,750	1,900	1,900

#### CRUDE OIL - Outright Rates

##### LOOP CRUDE OIL STORAGE FUTURES (LPS)

LPS	Spec	Mth 1	Decrease	USD	770	700	550	500
LPS	Hedge/Member	Mth 1	Decrease	USD	700	700	500	500
LPS	Spec	Mths 2-3	Decrease	USD	550	500	440	400
LPS	Hedge/Member	Mths 2-3	Decrease	USD	500	500	400	400
LPS	Spec	Mths 4+	Decrease	USD	330	300	275	250
LPS	Hedge/Member	Mths 4+	Decrease	USD	300	300	250	250

## 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

#### ELECTRICITY - Outright Rates

##### AEP-DAYTON HUB OFF-PEAK MONTHLY (VP)

VP	Spec	Mnth 1	Decrease	USD	6,270	5,700	2,200	2,000
VP	Hedge/Member	Mnth 1	Decrease	USD	5,700	5,700	2,000	2,000
VP	Spec	Mnth 2	Decrease	USD	3,960	3,600	1,815	1,650
VP	Hedge/Member	Mnth 2	Decrease	USD	3,600	3,600	1,650	1,650
VP	Spec	Mnths 3-11	Decrease	USD	3,850	3,500	1,760	1,600
VP	Hedge/Member	Mnths 3-11	Decrease	USD	3,500	3,500	1,600	1,600
VP	Spec	Mnths 12+	Decrease	USD	2,750	2,500	1,320	1,200
VP	Hedge/Member	Mnths 12+	Decrease	USD	2,500	2,500	1,200	1,200

##### AER-DAYTON HUB MONTHLY (VM)

VM	Spec	Mnth 1	Decrease	USD	24,404	22,185	22,000	20,000
VM	Hedge/Member	Mnth 1	Decrease	USD	22,185	22,185	20,000	20,000
VM	Spec	Mnth 2	Decrease	USD	3,960	3,600	2,750	2,500
VM	Hedge/Member	Mnth 2	Decrease	USD	3,600	3,600	2,500	2,500
VM	Spec	Mnths 3-4	Decrease	USD	3,850	3,500	1,760	1,600
VM	Hedge/Member	Mnths 3-4	Decrease	USD	3,500	3,500	1,600	1,600
VM	Spec	Mnths 5-11	Decrease	USD	2,750	2,500	1,650	1,500
VM	Hedge/Member	Mnths 5-11	Decrease	USD	2,500	2,500	1,500	1,500
VM	Spec	Mnths 12+	Decrease	USD	2,750	2,500	1,650	1,500
VM	Hedge/Member	Mnths 12+	Decrease	USD	2,500	2,500	1,500	1,500

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

I2	Spec	Mnth 1	Decrease	USD	83	75	33	30
I2	Hedge/Member	Mnth 1	Decrease	USD	75	75	30	30
I2	Spec	Mnth 2	Decrease	USD	83	75	33	30
I2	Hedge/Member	Mnth 2	Decrease	USD	75	75	30	30
I2	Spec	Mnths 3-11	Decrease	USD	39	35	28	25
I2	Hedge/Member	Mnths 3-11	Decrease	USD	35	35	25	25
I2	Spec	Mnths 12+	Decrease	USD	39	35	28	25
I2	Hedge/Member	Mnths 12+	Decrease	USD	35	35	25	25

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

I1	Spec	Mnth 1	Decrease	USD	3,300	3,000	1,100	1,000
I1	Hedge/Member	Mnth 1	Decrease	USD	3,000	3,000	1,000	1,000
I1	Spec	Mnth 2	Decrease	USD	1,650	1,500	825	750
I1	Hedge/Member	Mnth 2	Decrease	USD	1,500	1,500	750	750

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Outright Rates</b>								
<b>ERCOT HSTN 345 KV HUB DAY AHED PK (EHE)</b>								
EHE	Spec	Mnth 1	Decrease	USD	3,300	3,000	1,100	1,000
EHE	Hedge/Member	Mnth 1	Decrease	USD	3,000	3,000	1,000	1,000
EHE	Spec	Mnth 2	Decrease	USD	2,750	2,500	1,100	1,000
EHE	Hedge/Member	Mnth 2	Decrease	USD	2,500	2,500	1,000	1,000
<b>ERCOT HSTON 345KV HUB DAY AHD OFFPK (EHP)</b>								
EHP	Spec	Mnth 1	Decrease	USD	83	75	33	30
EHP	Hedge/Member	Mnth 1	Decrease	USD	75	75	30	30
EHP	Spec	Mnth 2	Decrease	USD	77	70	33	30
EHP	Hedge/Member	Mnth 2	Decrease	USD	70	70	30	30
EHP	Spec	Mnths 3-11	Decrease	USD	33	30	28	25
EHP	Hedge/Member	Mnths 3-11	Decrease	USD	30	30	25	25
EHP	Spec	Mnths 12+	Decrease	USD	33	30	28	25
EHP	Hedge/Member	Mnths 12+	Decrease	USD	30	30	25	25
<b>ERCOT NORTH 345 KV HUB DAY AHEAD PK (ERE)</b>								
ERE	Spec	Mnth 1	Decrease	USD	1,100	1,000	880	800
ERE	Hedge/Member	Mnth 1	Decrease	USD	1,000	1,000	800	800
ERE	Spec	Mnth 2	Decrease	USD	1,100	1,000	880	800
ERE	Hedge/Member	Mnth 2	Decrease	USD	1,000	1,000	800	800
<b>ERCOT NORTH 345KV HUB DAY AHD OFFPK (ERU)</b>								
ERU	Spec	Mnth 1	Decrease	USD	83	75	33	30
ERU	Hedge/Member	Mnth 1	Decrease	USD	75	75	30	30
ERU	Spec	Mnth 2	Decrease	USD	77	70	33	30
ERU	Hedge/Member	Mnth 2	Decrease	USD	70	70	30	30
<b>ERCOT NRTH 345 KV HUB 5 MW OFFPK S (I6)</b>								
I6	Spec	Mnth 1	Decrease	USD	44	40	22	20
I6	Hedge/Member	Mnth 1	Decrease	USD	40	40	20	20
I6	Spec	Mnth 2	Decrease	USD	33	30	22	20
I6	Hedge/Member	Mnth 2	Decrease	USD	30	30	20	20
<b>ERCOT SOUTH 345KV HUB DAY AHD OFFPK (ERA)</b>								
ERA	Spec	Mnth 1	Decrease	USD	83	75	33	30
ERA	Hedge/Member	Mnth 1	Decrease	USD	75	75	30	30
ERA	Spec	Mnth 2	Decrease	USD	77	70	33	30
ERA	Hedge/Member	Mnth 2	Decrease	USD	70	70	30	30
ERA	Spec	Mnths 3-11	Decrease	USD	33	30	22	20
ERA	Hedge/Member	Mnths 3-11	Decrease	USD	30	30	20	20
ERA	Spec	Mnths 12+	Decrease	USD	33	30	22	20
ERA	Hedge/Member	Mnths 12+	Decrease	USD	30	30	20	20

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Outright Rates</b>								
<b>ERCOT SOUTH 345KV HUB DAY AHEAD PK (EUE)</b>								
EUE	Spec	Mnth 1	Decrease	USD	3,080	2,800	1,100	1,000
EUE	Hedge/Member	Mnth 1	Decrease	USD	2,800	2,800	1,000	1,000
EUE	Spec	Mnth 2	Decrease	USD	3,080	2,800	1,100	1,000
EUE	Hedge/Member	Mnth 2	Decrease	USD	2,800	2,800	1,000	1,000
<b>ERCOT STH 345 KV HUB MW OFFPK S (J1)</b>								
J1	Spec	Mnth 1	Decrease	USD	83	75	39	35
J1	Hedge/Member	Mnth 1	Decrease	USD	75	75	35	35
J1	Spec	Mnth 2	Decrease	USD	83	75	33	30
J1	Hedge/Member	Mnth 2	Decrease	USD	75	75	30	30
J1	Spec	Mnths 3-11	Decrease	USD	39	35	22	20
J1	Hedge/Member	Mnths 3-11	Decrease	USD	35	35	20	20
J1	Spec	Mnths 12+	Decrease	USD	39	35	22	20
J1	Hedge/Member	Mnths 12+	Decrease	USD	35	35	20	20
<b>ERCOT STH 345 KV HUB MW PEAK FUT (I9)</b>								
I9	Spec	Mnth 1	Decrease	USD	2,200	2,000	1,100	1,000
I9	Hedge/Member	Mnth 1	Decrease	USD	2,000	2,000	1,000	1,000
I9	Spec	Mnth 2	Decrease	USD	1,925	1,750	1,045	950
I9	Hedge/Member	Mnth 2	Decrease	USD	1,750	1,750	950	950
I9	Spec	Mnths 3-11	Decrease	USD	1,650	1,500	1,045	950
I9	Hedge/Member	Mnths 3-11	Decrease	USD	1,500	1,500	950	950
I9	Spec	Mnths 12+	Decrease	USD	1,100	1,000	1,045	950
I9	Hedge/Member	Mnths 12+	Decrease	USD	1,000	1,000	950	950
<b>ERCOT WEST 345 KV HUB 5 MW OFFPK S (O1)</b>								
O1	Spec	Mnth 1	Decrease	USD	50	45	22	20
O1	Hedge/Member	Mnth 1	Decrease	USD	45	45	20	20
O1	Spec	Mnth 2	Decrease	USD	39	35	22	20
O1	Hedge/Member	Mnth 2	Decrease	USD	35	35	20	20
<b>ERCOT WEST 345 KV HUB DAY AHEAD PK (EWE)</b>								
EWE	Spec	Mnth 1	Decrease	USD	2,200	2,000	1,100	1,000
EWE	Hedge/Member	Mnth 1	Decrease	USD	2,000	2,000	1,000	1,000
EWE	Spec	Mnth 2	Decrease	USD	2,200	2,000	1,100	1,000
EWE	Hedge/Member	Mnth 2	Decrease	USD	2,000	2,000	1,000	1,000
<b>ERCOT WEST 345 KV HUB MW PEAK FUT (N1)</b>								
N1	Spec	Mnth 1	Decrease	USD	1,320	1,200	1,100	1,000
N1	Hedge/Member	Mnth 1	Decrease	USD	1,200	1,200	1,000	1,000

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Outright Rates</b>								
<b>ERCOT WEST 345KV HUB DAY AHD OFFPK (EWK)</b>								
EWK	Spec	Mnth 1	Decrease	USD	83	75	28	25
EWK	Hedge/Member	Mnth 1	Decrease	USD	75	75	25	25
EWK	Spec	Mnth 2	Decrease	USD	83	75	28	25
EWK	Hedge/Member	Mnth 2	Decrease	USD	75	75	25	25
EWK	Spec	Mnths 3-11	Decrease	USD	44	40	22	20
EWK	Hedge/Member	Mnths 3-11	Decrease	USD	40	40	20	20
EWK	Spec	Mnths 12+	Decrease	USD	44	40	22	20
EWK	Hedge/Member	Mnths 12+	Decrease	USD	40	40	20	20
<b>ILLINOIS OFF-PEAK MONTH FUT (OJ)</b>								
OJ	Spec	Mnth 1	Decrease	USD	44	40	28	25
OJ	Hedge/Member	Mnth 1	Decrease	USD	40	40	25	25
OJ	Spec	Mnths 2-6	Decrease	USD	44	40	22	20
OJ	Hedge/Member	Mnths 2-6	Decrease	USD	40	40	20	20
<b>ISO NEW ENGLAND OFF-PEAK LMP FUT (KI)</b>								
KI	Spec	Mnth 1	Decrease	USD	13,200	12,000	5,500	5,000
KI	Hedge/Member	Mnth 1	Decrease	USD	12,000	12,000	5,000	5,000
KI	Spec	Mnth 2	Decrease	USD	13,200	12,000	5,500	5,000
KI	Hedge/Member	Mnth 2	Decrease	USD	12,000	12,000	5,000	5,000
KI	Spec	Mnths 3-5	Decrease	USD	9,900	9,000	3,850	3,500
KI	Hedge/Member	Mnths 3-5	Decrease	USD	9,000	9,000	3,500	3,500
KI	Spec	Mnths 6-11	Decrease	USD	4,400	4,000	3,300	3,000
KI	Hedge/Member	Mnths 6-11	Decrease	USD	4,000	4,000	3,000	3,000
KI	Spec	Mnths 12+	Decrease	USD	9,240	8,400	3,300	3,000
KI	Hedge/Member	Mnths 12+	Decrease	USD	8,400	8,400	3,000	3,000
<b>ISO NEW ENGLAND PEAK LMP FUT (NI)</b>								
NI	Spec	Mnth 1	Decrease	USD	16,500	15,000	4,400	4,000
NI	Hedge/Member	Mnth 1	Decrease	USD	15,000	15,000	4,000	4,000
NI	Spec	Mnth 2	Decrease	USD	13,200	12,000	4,400	4,000
NI	Hedge/Member	Mnth 2	Decrease	USD	12,000	12,000	4,000	4,000
NI	Spec	Mnths 3-5	Decrease	USD	9,350	8,500	3,300	3,000
NI	Hedge/Member	Mnths 3-5	Decrease	USD	8,500	8,500	3,000	3,000
NI	Spec	Mnths 6-11	Decrease	USD	7,700	7,000	3,300	3,000
NI	Hedge/Member	Mnths 6-11	Decrease	USD	7,000	7,000	3,000	3,000
NI	Spec	Mnths 12+	Decrease	USD	11,000	10,000	3,300	3,000
NI	Hedge/Member	Mnths 12+	Decrease	USD	10,000	10,000	3,000	3,000

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Outright Rates</b>								
<b>MDWST ISO IND. HUB 5MW PK CAL-MO RT (PTM)</b>								
PTM	Spec	Mnth 1	Decrease	USD	1,100	1,000	550	500
PTM	Hedge/Member	Mnth 1	Decrease	USD	1,000	1,000	500	500
PTM	Spec	Mnth 2	Decrease	USD	660	600	385	350
PTM	Hedge/Member	Mnth 2	Decrease	USD	600	600	350	350
PTM	Spec	Mnths 3-11	Decrease	USD	440	400	220	200
PTM	Hedge/Member	Mnths 3-11	Decrease	USD	400	400	200	200
PTM	Spec	Mnths 12+	Decrease	USD	440	400	220	200
PTM	Hedge/Member	Mnths 12+	Decrease	USD	400	400	200	200
<b>MDWST ISO INDIANA HUB 5MWPK CAL MO (PDM)</b>								
PDM	Spec	Mnth 1	Decrease	USD	1,100	1,000	550	500
PDM	Hedge/Member	Mnth 1	Decrease	USD	1,000	1,000	500	500
PDM	Spec	Mnth 2	Decrease	USD	660	600	440	400
PDM	Hedge/Member	Mnth 2	Decrease	USD	600	600	400	400
<b>MICHIGAN HUB OFF-PK 5MW MONTH FUT (HJ)</b>								
HJ	Spec	Mnth 1	Decrease	USD	3,300	3,000	2,200	2,000
HJ	Hedge/Member	Mnth 1	Decrease	USD	3,000	3,000	2,000	2,000
HJ	Spec	Mnth 2	Decrease	USD	2,255	2,050	1,650	1,500
HJ	Hedge/Member	Mnth 2	Decrease	USD	2,050	2,050	1,500	1,500
HJ	Spec	Mnths 3-11	Decrease	USD	2,200	2,000	1,650	1,500
HJ	Hedge/Member	Mnths 3-11	Decrease	USD	2,000	2,000	1,500	1,500
<b>MICHIGAN HUB PK 5 MW FUT (HM)</b>								
HM	Spec	Mnth 1	Decrease	USD	14,960	13,600	6,050	5,500
HM	Hedge/Member	Mnth 1	Decrease	USD	13,600	13,600	5,500	5,500
HM	Spec	Mnth 2	Decrease	USD	14,960	13,600	6,050	5,500
HM	Hedge/Member	Mnth 2	Decrease	USD	13,600	13,600	5,500	5,500
HM	Spec	Mnths 3-11	Decrease	USD	11,000	10,000	5,500	5,000
HM	Hedge/Member	Mnths 3-11	Decrease	USD	10,000	10,000	5,000	5,000
HM	Spec	Mnth 12+	Decrease	USD	9,680	8,800	4,950	4,500
HM	Hedge/Member	Mnth 12+	Decrease	USD	8,800	8,800	4,500	4,500

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Outright Rates</b>								
<b>MID IND TRAN SO IL HUB5MW OFFP (4R)</b>								
4R	Spec	Mnth 1	Decrease	USD	44	40	22	20
4R	Hedge/Member	Mnth 1	Decrease	USD	40	40	20	20
4R	Spec	Mnth 2	Decrease	USD	44	40	17	15
4R	Hedge/Member	Mnth 2	Decrease	USD	40	40	15	15
4R	Spec	Mnths 3-11	Decrease	USD	22	20	17	15
4R	Hedge/Member	Mnths 3-11	Decrease	USD	20	20	15	15
4R	Spec	Mnths 12+	Decrease	USD	22	20	17	15
4R	Hedge/Member	Mnths 12+	Decrease	USD	20	20	15	15
<b>MID IND TRAN SO IL HUB5MW PEAK (4Q)</b>								
4Q	Spec	Mnth 1	Decrease	USD	2,200	2,000	440	400
4Q	Hedge/Member	Mnth 1	Decrease	USD	2,000	2,000	400	400
4Q	Spec	Mnth 2	Decrease	USD	1,650	1,500	440	400
4Q	Hedge/Member	Mnth 2	Decrease	USD	1,500	1,500	400	400
4Q	Spec	Mnths 3-11	Decrease	USD	825	750	275	250
4Q	Hedge/Member	Mnths 3-11	Decrease	USD	750	750	250	250
4Q	Spec	Mnths 12+	Decrease	USD	660	600	275	250
4Q	Hedge/Member	Mnths 12+	Decrease	USD	600	600	250	250
<b>MID-COLUMBIA DAY AHEAD PEAK FIX PRI (MDC)</b>								
MDC	Spec	Mnth 1	Decrease	USD	1,650	1,500	1,018	925
MDC	Hedge/Member	Mnth 1	Decrease	USD	1,500	1,500	925	925
<b>MIDWEST ISO MICHIGAN HUB 5MW PEAK C (HMW)</b>								
HMW	Spec	Mnth 1	Decrease	USD	935	850	440	400
HMW	Hedge/Member	Mnth 1	Decrease	USD	850	850	400	400
HMW	Spec	Mnth 2-4	Decrease	USD	605	550	330	300
HMW	Hedge/Member	Mnth 2-4	Decrease	USD	550	550	300	300
HMW	Spec	Mnth 5-11	Decrease	USD	550	500	275	250
HMW	Hedge/Member	Mnth 5-11	Decrease	USD	500	500	250	250
HMW	Spec	Mnth 12+	Decrease	USD	330	300	275	250
HMW	Hedge/Member	Mnth 12+	Decrease	USD	300	300	250	250



## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Outright Rates</b>								
<b>MINNESOTA OFF-PEAK MONTH FUT (LJ)</b>								
LJ	Spec	Mnth 1	Decrease	USD	55	50	39	35
LJ	Hedge/Member	Mnth 1	Decrease	USD	50	50	35	35
LJ	Spec	Mnths 2-6	Decrease	USD	33	30	22	20
LJ	Hedge/Member	Mnths 2-6	Decrease	USD	30	30	20	20
LJ	Spec	Mnths 7-11	Decrease	USD	22	20	17	15
LJ	Hedge/Member	Mnths 7-11	Decrease	USD	20	20	15	15
LJ	Spec	Mnths 12+	Decrease	USD	22	20	17	15
LJ	Hedge/Member	Mnths 12+	Decrease	USD	20	20	15	15
<b>MINNESOTA HUB PEAK MONTH FUT (LM)</b>								
LM	Spec	Mnth 1	Decrease	USD	1,650	1,500	495	450
LM	Hedge/Member	Mnth 1	Decrease	USD	1,500	1,500	450	450
LM	Spec	Mnths 2-6	Decrease	USD	990	900	440	400
LM	Hedge/Member	Mnths 2-6	Decrease	USD	900	900	400	400
LM	Spec	Mnths 12+	Decrease	USD	1,100	1,000	330	300
LM	Hedge/Member	Mnths 12+	Decrease	USD	1,000	1,000	300	300
<b>MISO INDIANA HUB 5MW D AH O PK (K2)</b>								
K2	Spec	Mnth 1	Decrease	USD	28	25	17	15
K2	Hedge/Member	Mnth 1	Decrease	USD	25	25	15	15
K2	Spec	Mnth 2	Decrease	USD	22	20	17	15
K2	Hedge/Member	Mnth 2	Decrease	USD	20	20	15	15
<b>MISO INDIANA HUB 5MW D AH PK (H5)</b>								
H5	Spec	Mnth 1	Decrease	USD	770	700	550	500
H5	Hedge/Member	Mnth 1	Decrease	USD	700	700	500	500
H5	Spec	Mnth 2	Decrease	USD	495	450	330	300
H5	Hedge/Member	Mnth 2	Decrease	USD	450	450	300	300
H5	Spec	Mnths 3-11	Decrease	USD	440	400	275	250
H5	Hedge/Member	Mnths 3-11	Decrease	USD	400	400	250	250
H5	Spec	Mnth 12+	Decrease	USD	440	400	275	250
H5	Hedge/Member	Mnth 12+	Decrease	USD	400	400	250	250
<b>MISO INDIANA HUB 5MW OFPK CAL MO RT (FTM)</b>								
FTM	Spec	Mnth 1	Decrease	USD	44	40	22	20
FTM	Hedge/Member	Mnth 1	Decrease	USD	40	40	20	20
FTM	Spec	Mnth 2	Decrease	USD	22	20	11	10
FTM	Hedge/Member	Mnth 2	Decrease	USD	20	20	10	10
FTM	Spec	Mnths 3-11	Decrease	USD	17	15	11	10
FTM	Hedge/Member	Mnths 3-11	Decrease	USD	15	15	10	10

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Outright Rates</b>								
<b>MISO INDIANA HUB 5MW REAL TIME OFPK (H4)</b>								
H4	Spec	Mnth 1	Decrease	USD	33	30	22	20
H4	Hedge/Member	Mnth 1	Decrease	USD	30	30	20	20
H4	Spec	Mnth 2	Decrease	USD	22	20	17	15
H4	Hedge/Member	Mnth 2	Decrease	USD	20	20	15	15
H4	Spec	Mnths 3-11	Decrease	USD	17	15	11	10
H4	Hedge/Member	Mnths 3-11	Decrease	USD	15	15	10	10
<b>MISO INDIANA HUB 5MW REAL TIME PK (H3)</b>								
H3	Spec	Mnth 1	Decrease	USD	880	800	660	600
H3	Hedge/Member	Mnth 1	Decrease	USD	800	800	600	600
H3	Spec	Mnth 2	Decrease	USD	495	450	330	300
H3	Hedge/Member	Mnth 2	Decrease	USD	450	450	300	300
H3	Spec	Mnths 3-11	Decrease	USD	440	400	275	250
H3	Hedge/Member	Mnths 3-11	Decrease	USD	400	400	250	250
H3	Spec	Mnth 12+	Decrease	USD	550	500	275	250
H3	Hedge/Member	Mnth 12+	Decrease	USD	500	500	250	250
<b>MISO INDIANA HUB OFF-PEAK MO FUT (EJ)</b>								
EJ	Spec	Mnth 1	Decrease	USD	4,400	4,000	2,200	2,000
EJ	Hedge/Member	Mnth 1	Decrease	USD	4,000	4,000	2,000	2,000
EJ	Spec	Mnth 2	Decrease	USD	3,190	2,900	1,760	1,600
EJ	Hedge/Member	Mnth 2	Decrease	USD	2,900	2,900	1,600	1,600
EJ	Spec	Mnths 3-11	Decrease	USD	3,080	2,800	1,650	1,500
EJ	Hedge/Member	Mnths 3-11	Decrease	USD	2,800	2,800	1,500	1,500
EJ	Spec	Mnth 12+	Decrease	USD	2,750	2,500	1,650	1,500
EJ	Hedge/Member	Mnth 12+	Decrease	USD	2,500	2,500	1,500	1,500
<b>MISO INDIANA HUB PEAK MONTH FUT (EM)</b>								
EM	Spec	Mnth 1	Decrease	USD	6,600	6,000	4,400	4,000
EM	Hedge/Member	Mnth 1	Decrease	USD	6,000	6,000	4,000	4,000
EM	Spec	Mnth 2	Decrease	USD	4,950	4,500	3,300	3,000
EM	Hedge/Member	Mnth 2	Decrease	USD	4,500	4,500	3,000	3,000
EM	Spec	Mnths 3-11	Decrease	USD	4,400	4,000	2,750	2,500
EM	Hedge/Member	Mnths 3-11	Decrease	USD	4,000	4,000	2,500	2,500
EM	Spec	Mnth 12+	Decrease	USD	2,750	2,500	2,200	2,000
EM	Hedge/Member	Mnth 12+	Decrease	USD	2,500	2,500	2,000	2,000

## 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

#### MISO MICHIGAN HUB OF-PK DA MONTHLY (HMO)

HMO	Spec	Mnth 1	Decrease	USD	33	30	22	20
HMO	Hedge/Member	Mnth 1	Decrease	USD	30	30	20	20
HMO	Spec	Mnths 2-6	Decrease	USD	22	20	17	15
HMO	Hedge/Member	Mnths 2-6	Decrease	USD	20	20	15	15

#### NEPOOL CNCTCT 5MW D AH O PK (P3)

P3	Spec	Mnth 1	Decrease	USD	121	110	50	45
P3	Hedge/Member	Mnth 1	Decrease	USD	110	110	45	45
P3	Spec	Mnth 2	Decrease	USD	88	80	33	30
P3	Hedge/Member	Mnth 2	Decrease	USD	80	80	30	30
P3	Spec	Mnths 3-11	Decrease	USD	83	75	22	20
P3	Hedge/Member	Mnths 3-11	Decrease	USD	75	75	20	20
P3	Spec	Mnths 12+	Decrease	USD	44	40	22	20
P3	Hedge/Member	Mnths 12+	Decrease	USD	40	40	20	20

#### NEPOOL CONECTIC 5MW D AH PK (P2)

P2	Spec	Mnth 1	Decrease	USD	2,200	2,000	770	700
P2	Hedge/Member	Mnth 1	Decrease	USD	2,000	2,000	700	700
P2	Spec	Mnth 2	Decrease	USD	1,650	1,500	770	700
P2	Hedge/Member	Mnth 2	Decrease	USD	1,500	1,500	700	700
P2	Spec	Mnths 3-5	Decrease	USD	1,100	1,000	715	650
P2	Hedge/Member	Mnths 3-5	Decrease	USD	1,000	1,000	650	650
P2	Spec	Mnths +12	Decrease	USD	1,100	1,000	550	500
P2	Hedge/Member	Mnths +12	Decrease	USD	1,000	1,000	500	500

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

H2	Spec	Mnth 1	Decrease	USD	110	100	39	35
H2	Hedge/Member	Mnth 1	Decrease	USD	100	100	35	35
H2	Spec	Mnth 2	Decrease	USD	66	60	28	25
H2	Hedge/Member	Mnth 2	Decrease	USD	60	60	25	25
H2	Spec	Mnths 3-5	Decrease	USD	55	50	22	20
H2	Hedge/Member	Mnths 3-5	Decrease	USD	50	50	20	20
H2	Spec	Mnths 12+	Decrease	USD	44	40	22	20
H2	Hedge/Member	Mnths 12+	Decrease	USD	40	40	20	20

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Outright Rates</b>								
<b>NEPOOL INTR HUB 5MW D AH PK (U6)</b>								
U6	Spec	Month 1	Decrease	USD	2,200	2,000	660	600
U6	Hedge/Member	Month 1	Decrease	USD	2,000	2,000	600	600
U6	Spec	Month 2	Decrease	USD	1,870	1,700	495	450
U6	Hedge/Member	Month 2	Decrease	USD	1,700	1,700	450	450
U6	Spec	Mnths 3-5	Decrease	USD	1,100	1,000	440	400
U6	Hedge/Member	Mnths 3-5	Decrease	USD	1,000	1,000	400	400
U6	Spec	Mnths 6-11	Decrease	USD	440	400	385	350
U6	Hedge/Member	Mnths 6-11	Decrease	USD	400	400	350	350
U6	Spec	Mnths 12+	Decrease	USD	935	850	440	400
U6	Hedge/Member	Mnths 12+	Decrease	USD	850	850	400	400
<b>NEPOOL MAINE 5MW D AH O EAK (W2)</b>								
W2	Spec	Mnth 1	Decrease	USD	303	275	66	60
W2	Hedge/Member	Mnth 1	Decrease	USD	275	275	60	60
W2	Spec	Mnth 2	Decrease	USD	138	125	33	30
W2	Hedge/Member	Mnth 2	Decrease	USD	125	125	30	30
W2	Spec	Mnths 3-11	Decrease	USD	132	120	28	25
W2	Hedge/Member	Mnths 3-11	Decrease	USD	120	120	25	25
W2	Spec	Mnths 12+	Decrease	USD	132	120	28	25
W2	Hedge/Member	Mnths 12+	Decrease	USD	120	120	25	25
<b>NEPOOL MAINE 5MW D AH PK (P9)</b>								
P9	Spec	Mnth 1	Decrease	USD	4,400	4,000	880	800
P9	Hedge/Member	Mnth 1	Decrease	USD	4,000	4,000	800	800
P9	Spec	Mnth 2	Decrease	USD	4,400	4,000	660	600
P9	Hedge/Member	Mnth 2	Decrease	USD	4,000	4,000	600	600
P9	Spec	Mnths 3-11	Decrease	USD	1,650	1,500	550	500
P9	Hedge/Member	Mnths 3-11	Decrease	USD	1,500	1,500	500	500
P9	Spec	Mnths 12+	Decrease	USD	715	650	550	500
P9	Hedge/Member	Mnths 12+	Decrease	USD	650	650	500	500
<b>NEPOOL NE MASS 5MW D AH PK (P7)</b>								
P7	Spec	Mnth 1	Decrease	USD	2,200	2,000	715	650
P7	Hedge/Member	Mnth 1	Decrease	USD	2,000	2,000	650	650
P7	Spec	Mnth 2	Decrease	USD	1,650	1,500	715	650
P7	Hedge/Member	Mnth 2	Decrease	USD	1,500	1,500	650	650
P7	Spec	Mnths 3-5	Decrease	USD	1,100	1,000	660	600
P7	Hedge/Member	Mnths 3-5	Decrease	USD	1,000	1,000	600	600

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Outright Rates</b>								
<b>NEPOOL NEW HAMP 5MW D AH O PK (U3)</b>								
U3	Spec	Mnth 1	Decrease	USD	138	125	55	50
U3	Hedge/Member	Mnth 1	Decrease	USD	125	125	50	50
U3	Spec	Mnth 2	Decrease	USD	88	80	55	50
U3	Hedge/Member	Mnth 2	Decrease	USD	80	80	50	50
U3	Spec	Mnths 3-6	Decrease	USD	83	75	55	50
U3	Hedge/Member	Mnths 3-6	Decrease	USD	75	75	50	50
U3	Spec	Mnths 12+	Decrease	USD	66	60	55	50
U3	Hedge/Member	Mnths 12+	Decrease	USD	60	60	50	50
<b>NEPOOL NEW HAMP 5MW D AH PK (U2)</b>								
U2	Spec	Mnth 1	Decrease	USD	2,750	2,500	770	700
U2	Hedge/Member	Mnth 1	Decrease	USD	2,500	2,500	700	700
U2	Spec	Mnth 2	Decrease	USD	2,200	2,000	770	700
U2	Hedge/Member	Mnth 2	Decrease	USD	2,000	2,000	700	700
U2	Spec	Mnths 3-11	Decrease	USD	1,650	1,500	550	500
U2	Hedge/Member	Mnths 3-11	Decrease	USD	1,500	1,500	500	500
U2	Spec	Mnth 12+	Decrease	USD	825	750	550	500
U2	Hedge/Member	Mnth 12+	Decrease	USD	750	750	500	500
<b>NEPOOL RHD ISLD 5MW D AH PK (U4)</b>								
U4	Spec	Mnth 1	Decrease	USD	1,870	1,700	605	550
U4	Hedge/Member	Mnth 1	Decrease	USD	1,700	1,700	550	550
U4	Spec	Mnth 2	Decrease	USD	1,100	1,000	550	500
U4	Hedge/Member	Mnth 2	Decrease	USD	1,000	1,000	500	500
U4	Spec	Mnths 3-5	Decrease	USD	825	750	440	400
U4	Hedge/Member	Mnths 3-5	Decrease	USD	750	750	400	400
U4	Spec	Mnths 6-11	Decrease	USD	550	500	440	400
U4	Hedge/Member	Mnths 6-11	Decrease	USD	500	500	400	400
U4	Spec	Mnths 12+	Decrease	USD	660	600	440	400
U4	Hedge/Member	Mnths 12+	Decrease	USD	600	600	400	400
<b>NEPOOL RHODE IL 5MW D AH O PK (U5)</b>								
U5	Spec	Mnth 1	Decrease	USD	110	100	39	35
U5	Hedge/Member	Mnth 1	Decrease	USD	100	100	35	35
U5	Spec	Mnth 2	Decrease	USD	72	65	28	25
U5	Hedge/Member	Mnth 2	Decrease	USD	65	65	25	25
U5	Spec	Mnths 3-5	Decrease	USD	55	50	22	20
U5	Hedge/Member	Mnths 3-5	Decrease	USD	50	50	20	20
U5	Spec	Mnths 12+	Decrease	USD	44	40	22	20
U5	Hedge/Member	Mnths 12+	Decrease	USD	40	40	20	20

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Outright Rates</b>								
<b>NEPOOL SE MASS 5MW D AH O PK (P5)</b>								
P5	Spec	Mnth 1	Decrease	USD	110	100	50	45
P5	Hedge/Member	Mnth 1	Decrease	USD	100	100	45	45
P5	Spec	Mnth 2	Decrease	USD	72	65	33	30
P5	Hedge/Member	Mnth 2	Decrease	USD	65	65	30	30
P5	Spec	Mnths 3-11	Decrease	USD	66	60	28	25
P5	Hedge/Member	Mnths 3-11	Decrease	USD	60	60	25	25
P5	Spec	Mnths 12+	Decrease	USD	33	30	28	25
P5	Hedge/Member	Mnths 12+	Decrease	USD	30	30	25	25
<b>NEPOOL SE MASS 5MW D AH PK (P4)</b>								
P4	Spec	Mnth 1	Decrease	USD	2,750	2,500	880	800
P4	Hedge/Member	Mnth 1	Decrease	USD	2,500	2,500	800	800
P4	Spec	Mnth 2	Decrease	USD	2,200	2,000	605	550
P4	Hedge/Member	Mnth 2	Decrease	USD	2,000	2,000	550	550
P4	Spec	Mnths 3-11	Decrease	USD	1,650	1,500	550	500
P4	Hedge/Member	Mnths 3-11	Decrease	USD	1,500	1,500	500	500
P4	Spec	Mths 12+	Decrease	USD	825	750	550	500
P4	Hedge/Member	Mths 12+	Decrease	USD	750	750	500	500
<b>NEPOOL W CNT MASS 5MW D AH O PK (L9)</b>								
L9	Spec	Mnth 1	Decrease	USD	160	145	66	60
L9	Hedge/Member	Mnth 1	Decrease	USD	145	145	60	60
L9	Spec	Mnth 2	Decrease	USD	160	145	33	30
L9	Hedge/Member	Mnth 2	Decrease	USD	145	145	30	30
L9	Spec	Mnths 3-5	Decrease	USD	66	60	28	25
L9	Hedge/Member	Mnths 3-5	Decrease	USD	60	60	25	25
L9	Spec	Mnths 6-11	Decrease	USD	61	55	22	20
L9	Hedge/Member	Mnths 6-11	Decrease	USD	55	55	20	20
L9	Spec	Mnths 12+	Decrease	USD	72	65	22	20
L9	Hedge/Member	Mnths 12+	Decrease	USD	65	65	20	20
<b>NEPOOL W CNTR M 5MW D AH PK (R6)</b>								
R6	Spec	Mnth 1	Decrease	USD	2,200	2,000	1,100	1,000
R6	Hedge/Member	Mnth 1	Decrease	USD	2,000	2,000	1,000	1,000
R6	Spec	Mnth 2	Decrease	USD	2,200	2,000	1,100	1,000
R6	Hedge/Member	Mnth 2	Decrease	USD	2,000	2,000	1,000	1,000
R6	Spec	Mnths 3-5	Decrease	USD	1,100	1,000	880	800
R6	Hedge/Member	Mnths 3-5	Decrease	USD	1,000	1,000	800	800
R6	Spec	Mnths +12	Decrease	USD	1,100	1,000	550	500
R6	Hedge/Member	Mnths +12	Decrease	USD	1,000	1,000	500	500

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Outright Rates</b>								
<b>NORTHERN ILLINOIS HUB MONTHLY (UM)</b>								
UM	Spec	Mnth 2	Decrease	USD	6,600	6,000	2,750	2,500
UM	Hedge/Member	Mnth 2	Decrease	USD	6,000	6,000	2,500	2,500
UM	Spec	Mnths 3-4	Decrease	USD	4,400	4,000	2,200	2,000
UM	Hedge/Member	Mnths 3-4	Decrease	USD	4,000	4,000	2,000	2,000
UM	Spec	Mnths 5-11	Decrease	USD	4,400	4,000	2,200	2,000
UM	Hedge/Member	Mnths 5-11	Decrease	USD	4,000	4,000	2,000	2,000
UM	Spec	Mnths 12+	Decrease	USD	2,750	2,500	1,870	1,700
UM	Hedge/Member	Mnths 12+	Decrease	USD	2,500	2,500	1,700	1,700
<b>NORTHERN ILLINOIS OFF-PEAK MONTHLY (UO)</b>								
UO	Spec	Mnth 1	Decrease	USD	5,060	4,600	2,750	2,500
UO	Hedge/Member	Mnth 1	Decrease	USD	4,600	4,600	2,500	2,500
UO	Spec	Mnth 2	Decrease	USD	2,750	2,500	1,870	1,700
UO	Hedge/Member	Mnth 2	Decrease	USD	2,500	2,500	1,700	1,700
UO	Spec	Mnths 3-11	Decrease	USD	2,530	2,300	1,760	1,600
UO	Hedge/Member	Mnths 3-11	Decrease	USD	2,300	2,300	1,600	1,600
UO	Spec	Mnths 12+	Decrease	USD	2,200	2,000	1,210	1,100
UO	Hedge/Member	Mnths 12+	Decrease	USD	2,000	2,000	1,100	1,100
<b>NYISO A (KA)</b>								
KA	Spec	Mnth 1	Decrease	USD	4,400	4,000	2,200	2,000
KA	Hedge/Member	Mnth 1	Decrease	USD	4,000	4,000	2,000	2,000
KA	Spec	Mnth 2	Decrease	USD	3,850	3,500	2,200	2,000
KA	Hedge/Member	Mnth 2	Decrease	USD	3,500	3,500	2,000	2,000
KA	Spec	Mnths 3-11	Decrease	USD	2,200	2,000	1,870	1,700
KA	Hedge/Member	Mnths 3-11	Decrease	USD	2,000	2,000	1,700	1,700
<b>NYISO A OFF-PEAK (KB)</b>								
KB	Spec	Mnth 1	Decrease	USD	8,800	8,000	2,750	2,500
KB	Hedge/Member	Mnth 1	Decrease	USD	8,000	8,000	2,500	2,500
KB	Spec	Mnth 2	Decrease	USD	5,500	5,000	2,200	2,000
KB	Hedge/Member	Mnth 2	Decrease	USD	5,000	5,000	2,000	2,000
KB	Spec	Mnths 3-5	Decrease	USD	3,300	3,000	1,870	1,700
KB	Hedge/Member	Mnths 3-5	Decrease	USD	3,000	3,000	1,700	1,700

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Outright Rates</b>								
<b>NYISO G (KG)</b>								
KG	Spec	Mnth 1	Decrease	USD	4,950	4,500	2,750	2,500
KG	Hedge/Member	Mnth 1	Decrease	USD	4,500	4,500	2,500	2,500
KG	Spec	Mnth 2	Decrease	USD	3,850	3,500	1,705	1,550
KG	Hedge/Member	Mnth 2	Decrease	USD	3,500	3,500	1,550	1,550
KG	Spec	Mnths 3-4	Decrease	USD	3,300	3,000	1,650	1,500
KG	Hedge/Member	Mnths 3-4	Decrease	USD	3,000	3,000	1,500	1,500
KG	Spec	Mnths 5-11	Decrease	USD	2,200	2,000	1,650	1,500
KG	Hedge/Member	Mnths 5-11	Decrease	USD	2,000	2,000	1,500	1,500
KG	Spec	Mnths 12+	Decrease	USD	2,750	2,500	1,650	1,500
KG	Hedge/Member	Mnths 12+	Decrease	USD	2,500	2,500	1,500	1,500
<b>NYISO G OFF-PEAK (KH)</b>								
KH	Spec	Mnth 1	Decrease	USD	12,100	11,000	4,620	4,200
KH	Hedge/Member	Mnth 1	Decrease	USD	11,000	11,000	4,200	4,200
KH	Spec	Mnth 2	Decrease	USD	9,350	8,500	3,520	3,200
KH	Hedge/Member	Mnth 2	Decrease	USD	8,500	8,500	3,200	3,200
KH	Spec	Mnths 3-6	Decrease	USD	5,500	5,000	2,750	2,500
KH	Hedge/Member	Mnths 3-6	Decrease	USD	5,000	5,000	2,500	2,500
KH	Spec	Mnths 7-11	Decrease	USD	4,400	4,000	2,750	2,500
KH	Hedge/Member	Mnths 7-11	Decrease	USD	4,000	4,000	2,500	2,500
KH	Spec	Mnths 12+	Decrease	USD	4,400	4,000	2,750	2,500
KH	Hedge/Member	Mnths 12+	Decrease	USD	4,000	4,000	2,500	2,500
<b>NYISO J (KJ)</b>								
KJ	Spec	Mnth 1	Decrease	USD	7,150	6,500	1,650	1,500
KJ	Hedge/Member	Mnth 1	Decrease	USD	6,500	6,500	1,500	1,500
KJ	Spec	Mnth 2	Decrease	USD	5,500	5,000	1,650	1,500
KJ	Hedge/Member	Mnth 2	Decrease	USD	5,000	5,000	1,500	1,500
KJ	Spec	Mnths 3-6	Decrease	USD	3,300	3,000	1,650	1,500
KJ	Hedge/Member	Mnths 3-6	Decrease	USD	3,000	3,000	1,500	1,500
KJ	Spec	Mnths 12+	Decrease	USD	3,300	3,000	1,650	1,500
KJ	Hedge/Member	Mnths 12+	Decrease	USD	3,000	3,000	1,500	1,500



## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Outright Rates</b>								
<b>NYISO J OFF-PEAK (KK)</b>								
KK	Spec	Mnth 1	Decrease	USD	12,100	11,000	4,400	4,000
KK	Hedge/Member	Mnth 1	Decrease	USD	11,000	11,000	4,000	4,000
KK	Spec	Mnth 2	Decrease	USD	8,800	8,000	4,400	4,000
KK	Hedge/Member	Mnth 2	Decrease	USD	8,000	8,000	4,000	4,000
KK	Spec	Mnths 3-11	Decrease	USD	4,950	4,500	3,300	3,000
KK	Hedge/Member	Mnths 3-11	Decrease	USD	4,500	4,500	3,000	3,000
KK	Spec	Mnths 12+	Decrease	USD	4,950	4,500	3,300	3,000
KK	Hedge/Member	Mnths 12+	Decrease	USD	4,500	4,500	3,000	3,000
<b>NYISO ZONE A 5MW D AH O PK (K4)</b>								
K4	Spec	Mnth 1	Decrease	USD	55	50	28	25
K4	Hedge/Member	Mnth 1	Decrease	USD	50	50	25	25
K4	Spec	Mnth 2	Decrease	USD	33	30	17	15
K4	Hedge/Member	Mnth 2	Decrease	USD	30	30	15	15
K4	Spec	Mnths 3-4	Decrease	USD	22	20	11	10
K4	Hedge/Member	Mnths 3-4	Decrease	USD	20	20	10	10
<b>NYISO ZONE A 5MW D AH PK (K3)</b>								
K3	Spec	Mnth 1	Decrease	USD	880	800	440	400
K3	Hedge/Member	Mnth 1	Decrease	USD	800	800	400	400
K3	Spec	Mnth 2	Decrease	USD	770	700	440	400
K3	Hedge/Member	Mnth 2	Decrease	USD	700	700	400	400
K3	Spec	Mnths 3-11	Decrease	USD	440	400	374	340
K3	Hedge/Member	Mnths 3-11	Decrease	USD	400	400	340	340
<b>NYISO ZONE C 5MW D AH O PK (A3)</b>								
A3	Spec	Mnth 1	Decrease	USD	61	55	28	25
A3	Hedge/Member	Mnth 1	Decrease	USD	55	55	25	25
A3	Spec	Mnth 2	Decrease	USD	33	30	17	15
A3	Hedge/Member	Mnth 2	Decrease	USD	30	30	15	15
A3	Spec	Mnths 3-11	Decrease	USD	22	20	17	15
A3	Hedge/Member	Mnths 3-11	Decrease	USD	20	20	15	15
A3	Spec	Mnths 12+	Decrease	USD	22	20	17	15
A3	Hedge/Member	Mnths 12+	Decrease	USD	20	20	15	15
<b>NYISO ZONE C 5MW D AH PK (Q5)</b>								
Q5	Spec	Mnth 1	Decrease	USD	1,650	1,500	660	600
Q5	Hedge/Member	Mnth 1	Decrease	USD	1,500	1,500	600	600
Q5	Spec	Mnth 2	Decrease	USD	1,100	1,000	660	600
Q5	Hedge/Member	Mnth 2	Decrease	USD	1,000	1,000	600	600

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Outright Rates</b>								
<b>NYISO ZONE E 5MW OFF- PK CAL MO FUT (58)</b>								
58	Spec	Mnth 1	Decrease	USD	55	50	28	25
58	Hedge/Member	Mnth 1	Decrease	USD	50	50	25	25
58	Spec	Mnths 2-6	Decrease	USD	55	50	22	20
58	Hedge/Member	Mnths 2-6	Decrease	USD	50	50	20	20
<b>NYISO ZONE E 5MW PK CAL MO FUT (55)</b>								
55	Spec	Mnth 1	Decrease	USD	1,650	1,500	550	500
55	Hedge/Member	Mnth 1	Decrease	USD	1,500	1,500	500	500
55	Spec	Mnth 2	Decrease	USD	1,100	1,000	440	400
55	Hedge/Member	Mnth 2	Decrease	USD	1,000	1,000	400	400
55	Spec	Mnths 3-11	Decrease	USD	660	600	440	400
55	Hedge/Member	Mnths 3-11	Decrease	USD	600	600	400	400
55	Spec	Mnths 12+	Decrease	USD	550	500	440	400
55	Hedge/Member	Mnths 12+	Decrease	USD	500	500	400	400
<b>NYISO ZONE F 5MW O PK FUT (4M)</b>								
4M	Spec	Mnth 1	Decrease	USD	138	125	77	70
4M	Hedge/Member	Mnth 1	Decrease	USD	125	125	70	70
4M	Spec	Mnth 2	Decrease	USD	138	125	77	70
4M	Hedge/Member	Mnth 2	Decrease	USD	125	125	70	70
4M	Spec	Mnths 12+	Decrease	USD	66	60	33	30
4M	Hedge/Member	Mnths 12+	Decrease	USD	60	60	30	30
<b>NYISO ZONE F 5MW PK FUT (4L)</b>								
4L	Spec	Mnth 1	Decrease	USD	2,750	2,500	1,100	1,000
4L	Hedge/Member	Mnth 1	Decrease	USD	2,500	2,500	1,000	1,000
4L	Spec	Mnth 2	Decrease	USD	2,750	2,500	1,100	1,000
4L	Hedge/Member	Mnth 2	Decrease	USD	2,500	2,500	1,000	1,000
<b>NYISO ZONE G 5MW D AH O PK (D2)</b>								
D2	Spec	Mnth 1	Decrease	USD	99	90	55	50
D2	Hedge/Member	Mnth 1	Decrease	USD	90	90	50	50
D2	Spec	Mnth 2	Decrease	USD	44	40	22	20
D2	Hedge/Member	Mnth 2	Decrease	USD	40	40	20	20
D2	Spec	Mnths 3-4	Decrease	USD	39	35	17	15
D2	Hedge/Member	Mnths 3-4	Decrease	USD	35	35	15	15

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Outright Rates</b>								
<b>NYISO ZONE G 5MW D AH PK (T3)</b>								
T3	Spec	Mnth 1	Decrease	USD	990	900	550	500
T3	Hedge/Member	Mnth 1	Decrease	USD	900	900	500	500
T3	Spec	Mnth 2	Decrease	USD	770	700	341	310
T3	Hedge/Member	Mnth 2	Decrease	USD	700	700	310	310
T3	Spec	Mnths 3-4	Decrease	USD	660	600	330	300
T3	Hedge/Member	Mnths 3-4	Decrease	USD	600	600	300	300
T3	Spec	Mnths 5-11	Decrease	USD	440	400	330	300
T3	Hedge/Member	Mnths 5-11	Decrease	USD	400	400	300	300
T3	Spec	Mnths 12+	Decrease	USD	550	500	330	300
T3	Hedge/Member	Mnths 12+	Decrease	USD	500	500	300	300
<b>NYISO ZONE J 5MW D AH O PK (D4)</b>								
D4	Spec	Mnth 1	Decrease	USD	99	90	50	45
D4	Hedge/Member	Mnth 1	Decrease	USD	90	90	45	45
D4	Spec	Mnth 2	Decrease	USD	44	40	22	20
D4	Hedge/Member	Mnth 2	Decrease	USD	40	40	20	20
D4	Spec	Mnths 3-4	Decrease	USD	39	35	17	15
D4	Hedge/Member	Mnths 3-4	Decrease	USD	35	35	15	15
<b>NYISO ZONE J 5MW D AH PK (D3)</b>								
D3	Spec	Mnth 1	Decrease	USD	1,430	1,300	330	300
D3	Hedge/Member	Mnth 1	Decrease	USD	1,300	1,300	300	300
D3	Spec	Mnth 2	Decrease	USD	1,100	1,000	330	300
D3	Hedge/Member	Mnth 2	Decrease	USD	1,000	1,000	300	300
D3	Spec	Mnths 3-6	Decrease	USD	660	600	330	300
D3	Hedge/Member	Mnths 3-6	Decrease	USD	600	600	300	300
D3	Spec	Mnths 12+	Decrease	USD	660	600	330	300
D3	Hedge/Member	Mnths 12+	Decrease	USD	600	600	300	300
<b>ONTARIO OFF-PK CAL-MO FUTURES (OFM)</b>								
OFM	Spec	Mnth 1	Decrease	CAD	72	65	33	30
OFM	Hedge/Member	Mnth 1	Decrease	CAD	65	65	30	30
OFM	Spec	Mnth 2	Decrease	CAD	72	65	33	30
OFM	Hedge/Member	Mnth 2	Decrease	CAD	65	65	30	30
OFM	Spec	Mnth 3-11	Decrease	CAD	28	25	22	20
OFM	Hedge/Member	Mnth 3-11	Decrease	CAD	25	25	20	20
OFM	Spec	Mnth 12+	Decrease	CAD	28	25	22	20
OFM	Hedge/Member	Mnth 12+	Decrease	CAD	25	25	20	20

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Outright Rates</b>								
<b>ONTARIO PEAK CAL-MONTH FUTURES (OPM)</b>								
OPM	Spec	Mnth 1	Decrease	CAD	1,870	1,700	660	600
OPM	Hedge/Member	Mnth 1	Decrease	CAD	1,700	1,700	600	600
OPM	Spec	Mnth 2	Decrease	CAD	1,100	1,000	660	600
OPM	Hedge/Member	Mnth 2	Decrease	CAD	1,000	1,000	600	600
OPM	Spec	Mnths 3-6	Decrease	CAD	770	700	550	500
OPM	Hedge/Member	Mnths 3-6	Decrease	CAD	700	700	500	500
OPM	Spec	Mnths 7-11	Decrease	CAD	385	350	330	300
OPM	Hedge/Member	Mnths 7-11	Decrease	CAD	350	350	300	300
OPM	Spec	Mnths 12+	Decrease	CAD	385	350	330	300
OPM	Hedge/Member	Mnths 12+	Decrease	CAD	350	350	300	300
<b>PALO VERDE DAY AHEAD PEAK FIX PRICE (PVD)</b>								
PVD	Spec	Mnth 1	Decrease	USD	1,980	1,800	880	800
PVD	Hedge/Member	Mnth 1	Decrease	USD	1,800	1,800	800	800
<b>PJM AD HUB 5MW REAL TIME O PK (V3)</b>								
V3	Spec	Mnth 1	Decrease	USD	50	45	22	20
V3	Hedge/Member	Mnth 1	Decrease	USD	45	45	20	20
V3	Spec	Mnth 2	Decrease	USD	22	20	11	10
V3	Hedge/Member	Mnth 2	Decrease	USD	20	20	10	10
V3	Spec	Mnths 3-11	Decrease	USD	17	15	11	10
V3	Hedge/Member	Mnths 3-11	Decrease	USD	15	15	10	10
<b>PJM AD HUB 5MW REAL TIME PK (Z9)</b>								
Z9	Spec	Mnth 1	Decrease	USD	1,100	1,000	880	800
Z9	Hedge/Member	Mnth 1	Decrease	USD	1,000	1,000	800	800
Z9	Spec	Mnth 2	Decrease	USD	605	550	330	300
Z9	Hedge/Member	Mnth 2	Decrease	USD	550	550	300	300
Z9	Spec	Mnths 3-4	Decrease	USD	605	550	330	300
Z9	Hedge/Member	Mnths 3-4	Decrease	USD	550	550	300	300
Z9	Spec	Mnths 12+	Decrease	USD	275	250	165	150
Z9	Hedge/Member	Mnths 12+	Decrease	USD	250	250	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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### Outright Rates

#### PJM AECO DA OFF-PEAK (X1)

X1	Spec	Mnth 1	Decrease	USD	77	70	55	50
X1	Hedge/Member	Mnth 1	Decrease	USD	70	70	50	50
X1	Spec	Mnth 2	Decrease	USD	39	35	17	15
X1	Hedge/Member	Mnth 2	Decrease	USD	35	35	15	15
X1	Spec	Mnths 3-4	Decrease	USD	33	30	11	10
X1	Hedge/Member	Mnths 3-4	Decrease	USD	30	30	10	10
X1	Spec	Mnths 5-11	Decrease	USD	33	30	11	10
X1	Hedge/Member	Mnths 5-11	Decrease	USD	30	30	10	10
X1	Spec	Mnths 12+	Decrease	USD	28	25	17	15
X1	Hedge/Member	Mnths 12+	Decrease	USD	25	25	15	15

#### PJM AECO DA PEAK (Y1)

Y1	Spec	Mnth 1	Decrease	USD	2,090	1,900	1,100	1,000
Y1	Hedge/Member	Mnth 1	Decrease	USD	1,900	1,900	1,000	1,000
Y1	Spec	Mnth 2	Decrease	USD	1,100	1,000	440	400
Y1	Hedge/Member	Mnth 2	Decrease	USD	1,000	1,000	400	400
Y1	Spec	Mnths 3-5	Decrease	USD	1,100	1,000	330	300
Y1	Hedge/Member	Mnths 3-5	Decrease	USD	1,000	1,000	300	300
Y1	Spec	Mnths 6-11	Decrease	USD	1,320	1,200	275	250
Y1	Hedge/Member	Mnths 6-11	Decrease	USD	1,200	1,200	250	250
Y1	Spec	Mnths 12+	Decrease	USD	1,320	1,200	220	200
Y1	Hedge/Member	Mnths 12+	Decrease	USD	1,200	1,200	200	200

#### PJM APS ZONE DA OFF-PEAK (W4)

W4	Spec	Mnth 1	Decrease	USD	66	60	33	30
W4	Hedge/Member	Mnth 1	Decrease	USD	60	60	30	30
W4	Spec	Mnth 2	Decrease	USD	33	30	17	15
W4	Hedge/Member	Mnth 2	Decrease	USD	30	30	15	15
W4	Spec	Mnths 3-11	Decrease	USD	28	25	11	10
W4	Hedge/Member	Mnths 3-11	Decrease	USD	25	25	10	10

## 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 APS ZONE DA PEAK (S4)

S4	Spec	Mnth 1	Decrease	USD	1,650	1,500	550	500
S4	Hedge/Member	Mnth 1	Decrease	USD	1,500	1,500	500	500
S4	Spec	Mnth 2	Decrease	USD	880	800	495	450
S4	Hedge/Member	Mnth 2	Decrease	USD	800	800	450	450
S4	Spec	Mnths 3-4	Decrease	USD	660	600	275	250
S4	Hedge/Member	Mnths 3-4	Decrease	USD	600	600	250	250
S4	Spec	Mnths 5-11	Decrease	USD	330	300	193	175
S4	Hedge/Member	Mnths 5-11	Decrease	USD	300	300	175	175
S4	Spec	Mnths 12+	Decrease	USD	330	300	193	175
S4	Hedge/Member	Mnths 12+	Decrease	USD	300	300	175	175

#### PJM ASTI ZONE OFF PEAK RT MO (MOR)

MOR	Spec	Mnth 1	Decrease	USD	132	120	22	20
MOR	Hedge/Member	Mnth 1	Decrease	USD	120	120	20	20
MOR	Spec	Mnths 2-3	Decrease	USD	44	40	17	15
MOR	Hedge/Member	Mnths 2-3	Decrease	USD	40	40	15	15
MOR	Spec	Mnths 4-12	Decrease	USD	22	20	17	15
MOR	Hedge/Member	Mnths 4-12	Decrease	USD	20	20	15	15
MOR	Spec	Mnths 13+	Decrease	USD	22	20	17	15
MOR	Hedge/Member	Mnths 13+	Decrease	USD	20	20	15	15

#### PJM ASTI ZONE PEAK DA MO (MOD)

MOD	Spec	Mnth 1	Decrease	USD	61	55	22	20
MOD	Hedge/Member	Mnth 1	Decrease	USD	55	55	20	20
MOD	Spec	Mnths 2-3	Decrease	USD	61	55	22	20
MOD	Hedge/Member	Mnths 2-3	Decrease	USD	55	55	20	20
MOD	Spec	Mnths 4-12	Decrease	USD	22	20	17	15
MOD	Hedge/Member	Mnths 4-12	Decrease	USD	20	20	15	15
MOD	Spec	Mnth 13+	Decrease	USD	22	20	17	15
MOD	Hedge/Member	Mnth 13+	Decrease	USD	20	20	15	15

#### PJM ASTI ZONE PEAK RT MO (MPR)

MPR	Spec	Mnth 1	Decrease	USD	2,200	2,000	440	400
MPR	Hedge/Member	Mnth 1	Decrease	USD	2,000	2,000	400	400
MPR	Spec	Mnths 2-3	Decrease	USD	770	700	330	300
MPR	Hedge/Member	Mnths 2-3	Decrease	USD	700	700	300	300
MPR	Spec	Mnths 4-12	Decrease	USD	770	700	330	300
MPR	Hedge/Member	Mnths 4-12	Decrease	USD	700	700	300	300

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Outright Rates</b>								
<b>PJM ATSI ZONE MONTHLY DAILY (MPD)</b>								
MPD	Spec	Mnth 1	Decrease	USD	1,650	1,500	440	400
MPD	Hedge/Member	Mnth 1	Decrease	USD	1,500	1,500	400	400
MPD	Spec	Mnths 2-3	Decrease	USD	825	750	220	200
MPD	Hedge/Member	Mnths 2-3	Decrease	USD	750	750	200	200
MPD	Spec	Mnths 4-12	Decrease	USD	330	300	165	150
MPD	Hedge/Member	Mnths 4-12	Decrease	USD	300	300	150	150
<b>PJM BGE DA OFF-PEAK (R3)</b>								
R3	Spec	Mnth 1	Decrease	USD	72	65	50	45
R3	Hedge/Member	Mnth 1	Decrease	USD	65	65	45	45
R3	Spec	Mnth 2	Decrease	USD	28	25	17	15
R3	Hedge/Member	Mnth 2	Decrease	USD	25	25	15	15
R3	Spec	Mnths 3-4	Decrease	USD	22	20	11	10
R3	Hedge/Member	Mnths 3-4	Decrease	USD	20	20	10	10
R3	Spec	Mnths 5-11	Decrease	USD	22	20	11	10
R3	Hedge/Member	Mnths 5-11	Decrease	USD	20	20	10	10
R3	Spec	Mnths 12+	Decrease	USD	22	20	17	15
R3	Hedge/Member	Mnths 12+	Decrease	USD	20	20	15	15
<b>PJM BGE DA PEAK (E3)</b>								
E3	Spec	Mnth 1	Decrease	USD	1,980	1,800	715	650
E3	Hedge/Member	Mnth 1	Decrease	USD	1,800	1,800	650	650
E3	Spec	Mnth 2	Decrease	USD	1,100	1,000	605	550
E3	Hedge/Member	Mnth 2	Decrease	USD	1,000	1,000	550	550
E3	Spec	Mnths 3-11	Decrease	USD	1,100	1,000	605	550
E3	Hedge/Member	Mnths 3-11	Decrease	USD	1,000	1,000	550	550
E3	Spec	Mnths 12+	Decrease	USD	770	700	495	450
E3	Hedge/Member	Mnths 12+	Decrease	USD	700	700	450	450
<b>PJM COMED 5MW D AH O PK (D9)</b>								
D9	Spec	Mnth 1	Decrease	USD	39	35	17	15
D9	Hedge/Member	Mnth 1	Decrease	USD	35	35	15	15
D9	Spec	Mnth 2	Decrease	USD	22	20	11	10
D9	Hedge/Member	Mnth 2	Decrease	USD	20	20	10	10
D9	Spec	Mnths 3-11	Decrease	USD	22	20	11	10
D9	Hedge/Member	Mnths 3-11	Decrease	USD	20	20	10	10

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Outright Rates</b>								
<b>PJM COMED 5MW D AH PK (D8)</b>								
D8	Spec	Mnth 1	Decrease	USD	660	600	330	300
D8	Hedge/Member	Mnth 1	Decrease	USD	600	600	300	300
D8	Spec	Mnth 2	Decrease	USD	550	500	275	250
D8	Hedge/Member	Mnth 2	Decrease	USD	500	500	250	250
D8	Spec	Mnths 3-4	Decrease	USD	440	400	220	200
D8	Hedge/Member	Mnths 3-4	Decrease	USD	400	400	200	200
D8	Spec	Mnths 5-11	Decrease	USD	275	250	193	175
D8	Hedge/Member	Mnths 5-11	Decrease	USD	250	250	175	175
<b>PJM DAYTON DA OFF-PEAK (R7)</b>								
R7	Spec	Mnth 1	Decrease	USD	33	30	17	15
R7	Hedge/Member	Mnth 1	Decrease	USD	30	30	15	15
R7	Spec	Mnth 2	Decrease	USD	22	20	11	10
R7	Hedge/Member	Mnth 2	Decrease	USD	20	20	10	10
R7	Spec	Mnths 3-11	Decrease	USD	17	15	11	10
R7	Hedge/Member	Mnths 3-11	Decrease	USD	15	15	10	10
<b>PJM DAYTON DA PEAK (D7)</b>								
D7	Spec	Mnth 1	Decrease	USD	770	700	330	300
D7	Hedge/Member	Mnth 1	Decrease	USD	700	700	300	300
D7	Spec	Mnth 2	Decrease	USD	605	550	275	250
D7	Hedge/Member	Mnth 2	Decrease	USD	550	550	250	250
<b>PJM DPL DA OFF-PEAK (E8)</b>								
E8	Spec	Mnth 1	Decrease	USD	83	75	44	40
E8	Hedge/Member	Mnth 1	Decrease	USD	75	75	40	40
E8	Spec	Mnth 2	Decrease	USD	83	75	44	40
E8	Hedge/Member	Mnth 2	Decrease	USD	75	75	40	40
E8	Spec	Mnths 3-11	Decrease	USD	83	75	39	35
E8	Hedge/Member	Mnths 3-11	Decrease	USD	75	75	35	35
E8	Spec	Mnths 12+	Decrease	USD	83	75	39	35
E8	Hedge/Member	Mnths 12+	Decrease	USD	75	75	35	35
<b>PJM DPL DA PEAK (L8)</b>								
L8	Spec	Mnth 1	Decrease	USD	3,300	3,000	1,100	1,000
L8	Hedge/Member	Mnth 1	Decrease	USD	3,000	3,000	1,000	1,000
L8	Spec	Mnth 2	Decrease	USD	2,750	2,500	1,100	1,000
L8	Hedge/Member	Mnth 2	Decrease	USD	2,500	2,500	1,000	1,000



## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Outright Rates</b>								
<b>PJM DUQUESNE 5MW D AH PK (D5)</b>								
D5	Spec	Mnth 1	Decrease	USD	1,100	1,000	550	500
D5	Hedge/Member	Mnth 1	Decrease	USD	1,000	1,000	500	500
D5	Spec	Mnth 2	Decrease	USD	1,100	1,000	550	500
D5	Hedge/Member	Mnth 2	Decrease	USD	1,000	1,000	500	500
D5	Spec	Mnths 3-11	Decrease	USD	330	300	220	200
D5	Hedge/Member	Mnths 3-11	Decrease	USD	300	300	200	200
<b>PJM DUQUS 5MW D AH O PK (D6)</b>								
D6	Spec	Mnth 1	Decrease	USD	50	45	22	20
D6	Hedge/Member	Mnth 1	Decrease	USD	45	45	20	20
D6	Spec	Mnth 2	Decrease	USD	50	45	22	20
D6	Hedge/Member	Mnth 2	Decrease	USD	45	45	20	20
D6	Spec	Mnths 3-11	Decrease	USD	22	20	17	15
D6	Hedge/Member	Mnths 3-11	Decrease	USD	20	20	15	15
D6	Spec	Mnths 12+	Decrease	USD	22	20	17	15
D6	Hedge/Member	Mnths 12+	Decrease	USD	20	20	15	15
<b>PJM EASTERNH DA OFF-PEAK (F4)</b>								
F4	Spec	Mnth 1	Decrease	USD	132	120	39	35
F4	Hedge/Member	Mnth 1	Decrease	USD	120	120	35	35
F4	Spec	Mnth 2	Decrease	USD	110	100	39	35
F4	Hedge/Member	Mnth 2	Decrease	USD	100	100	35	35
F4	Spec	Mnths 3-11	Decrease	USD	88	80	33	30
F4	Hedge/Member	Mnths 3-11	Decrease	USD	80	80	30	30
<b>PJM EASTERNH DA PEAK (E9)</b>								
E9	Spec	Mnth 1	Decrease	USD	4,400	4,000	1,100	1,000
E9	Hedge/Member	Mnth 1	Decrease	USD	4,000	4,000	1,000	1,000
E9	Spec	Mnth 2	Decrease	USD	2,750	2,500	1,100	1,000
E9	Hedge/Member	Mnth 2	Decrease	USD	2,500	2,500	1,000	1,000
E9	Spec	Mnths 3-11	Decrease	USD	2,640	2,400	1,100	1,000
E9	Hedge/Member	Mnths 3-11	Decrease	USD	2,400	2,400	1,000	1,000
E9	Spec	Mnths 12+	Decrease	USD	2,200	2,000	1,100	1,000
E9	Hedge/Member	Mnths 12+	Decrease	USD	2,000	2,000	1,000	1,000

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Outright Rates</b>								
<b>PJM JCPL DA OFF-PEAK (F2)</b>								
F2	Spec	Mnth 1	Decrease	USD	88	80	61	55
F2	Hedge/Member	Mnth 1	Decrease	USD	80	80	55	55
F2	Spec	Mnth 2	Decrease	USD	44	40	17	15
F2	Hedge/Member	Mnth 2	Decrease	USD	40	40	15	15
F2	Spec	Mnths 3-11	Decrease	USD	22	20	11	10
F2	Hedge/Member	Mnths 3-11	Decrease	USD	20	20	10	10
<b>PJM JCPL DA PEAK (J2)</b>								
J2	Spec	Mnth 1	Decrease	USD	2,090	1,900	1,100	1,000
J2	Hedge/Member	Mnth 1	Decrease	USD	1,900	1,900	1,000	1,000
J2	Spec	Mnth 2	Decrease	USD	990	900	440	400
J2	Hedge/Member	Mnth 2	Decrease	USD	900	900	400	400
J2	Spec	Mnths 3-11	Decrease	USD	880	800	385	350
J2	Hedge/Member	Mnths 3-11	Decrease	USD	800	800	350	350
J2	Spec	Mnths 12+	Decrease	USD	770	700	440	400
J2	Hedge/Member	Mnths 12+	Decrease	USD	700	700	400	400
<b>PJM METED ZONE OFFPK CAL MO LMP FUT (46)</b>								
46	Spec	Mnth 1	Decrease	USD	77	70	50	45
46	Hedge/Member	Mnth 1	Decrease	USD	70	70	45	45
46	Spec	Mnth 2	Decrease	USD	33	30	17	15
46	Hedge/Member	Mnth 2	Decrease	USD	30	30	15	15
46	Spec	Mnths 3-4	Decrease	USD	22	20	17	15
46	Hedge/Member	Mnths 3-4	Decrease	USD	20	20	15	15
<b>PJM METED ZONE PK CAL LMP FUTURES (47)</b>								
47	Spec	Mnth 1	Decrease	USD	1,980	1,800	605	550
47	Hedge/Member	Mnth 1	Decrease	USD	1,800	1,800	550	550
47	Spec	Mnth 2	Decrease	USD	880	800	440	400
47	Hedge/Member	Mnth 2	Decrease	USD	800	800	400	400
47	Spec	Mnths 3-6	Decrease	USD	605	550	330	300
47	Hedge/Member	Mnths 3-6	Decrease	USD	550	550	300	300
47	Spec	Mnths 7-11	Decrease	USD	440	400	220	200
47	Hedge/Member	Mnths 7-11	Decrease	USD	400	400	200	200
47	Spec	Mnths 12+	Decrease	USD	440	400	220	200
47	Hedge/Member	Mnths 12+	Decrease	USD	400	400	200	200

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Outright Rates</b>								
<b>PJM MONTHLY (JM)</b>								
JM	Spec	Mnth 1	Decrease	USD	33,000	30,000	27,500	25,000
JM	Hedge/Member	Mnth 1	Decrease	USD	30,000	30,000	25,000	25,000
JM	Spec	Mnth 2	Decrease	USD	5,500	5,000	4,400	4,000
JM	Hedge/Member	Mnth 2	Decrease	USD	5,000	5,000	4,000	4,000
JM	Spec	Mnths 4-5	Decrease	USD	3,080	2,800	2,310	2,100
JM	Hedge/Member	Mnths 4-5	Decrease	USD	2,800	2,800	2,100	2,100
JM	Spec	Mnths 6-11	Decrease	USD	2,530	2,300	2,200	2,000
JM	Hedge/Member	Mnths 6-11	Decrease	USD	2,300	2,300	2,000	2,000
JM	Spec	Mnth 3	Decrease	USD	3,850	3,500	2,750	2,500
JM	Hedge/Member	Mnth 3	Decrease	USD	3,500	3,500	2,500	2,500
<b>PJM NI HUB 5MW REAL TIME O PK (B6)</b>								
B6	Spec	Mnth 1	Decrease	USD	39	35	22	20
B6	Hedge/Member	Mnth 1	Decrease	USD	35	35	20	20
B6	Spec	Mnth 2	Decrease	USD	22	20	11	10
B6	Hedge/Member	Mnth 2	Decrease	USD	20	20	10	10
B6	Spec	Mnths 3-11	Decrease	USD	22	20	11	10
B6	Hedge/Member	Mnths 3-11	Decrease	USD	20	20	10	10
<b>PJM NI HUB 5MW REAL TIME PK (B3)</b>								
B3	Spec	Mnth 1	Decrease	USD	1,650	1,500	880	800
B3	Hedge/Member	Mnth 1	Decrease	USD	1,500	1,500	800	800
B3	Spec	Mnth 2	Decrease	USD	660	600	330	300
B3	Hedge/Member	Mnth 2	Decrease	USD	600	600	300	300
B3	Spec	Mnths 3-4	Decrease	USD	660	600	193	175
B3	Hedge/Member	Mnths 3-4	Decrease	USD	600	600	175	175
B3	Spec	Mnths 5-11	Decrease	USD	275	250	193	175
B3	Hedge/Member	Mnths 5-11	Decrease	USD	250	250	175	175
B3	Spec	Mnths 12+	Decrease	USD	248	225	193	175
B3	Hedge/Member	Mnths 12+	Decrease	USD	225	225	175	175
<b>PJM NILL DA OFF-PEAK (L3)</b>								
L3	Spec	Mnth 1	Decrease	USD	39	35	17	15
L3	Hedge/Member	Mnth 1	Decrease	USD	35	35	15	15
L3	Spec	Mnth 2	Decrease	USD	22	20	11	10
L3	Hedge/Member	Mnth 2	Decrease	USD	20	20	10	10
L3	Spec	Mnths 3-11	Decrease	USD	22	20	11	10
L3	Hedge/Member	Mnths 3-11	Decrease	USD	20	20	10	10
L3	Spec	Mnths 12+	Decrease	USD	17	15	11	10
L3	Hedge/Member	Mnths 12+	Decrease	USD	15	15	10	10

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Outright Rates</b>								
<b>PJM NILL DA PEAK (N3)</b>								
N3	Spec	Mnth 1	Decrease	USD	770	700	495	450
N3	Hedge/Member	Mnth 1	Decrease	USD	700	700	450	450
N3	Spec	Mnth 2	Decrease	USD	495	450	330	300
N3	Hedge/Member	Mnth 2	Decrease	USD	450	450	300	300
N3	Spec	Mnths 3-4	Decrease	USD	440	400	220	200
N3	Hedge/Member	Mnths 3-4	Decrease	USD	400	400	200	200
<b>PJM OFF-PEAK LMP FUT (JP)</b>								
JP	Spec	Mnth 1	Decrease	USD	8,250	7,500	3,960	3,600
JP	Hedge/Member	Mnth 1	Decrease	USD	7,500	7,500	3,600	3,600
JP	Spec	Mnth 2	Decrease	USD	5,500	5,000	2,420	2,200
JP	Hedge/Member	Mnth 2	Decrease	USD	5,000	5,000	2,200	2,200
JP	Spec	Mnths 3-4	Decrease	USD	3,300	3,000	1,815	1,650
JP	Hedge/Member	Mnths 3-4	Decrease	USD	3,000	3,000	1,650	1,650
JP	Spec	Mnths 5-11	Decrease	USD	2,200	2,000	1,760	1,600
JP	Hedge/Member	Mnths 5-11	Decrease	USD	2,000	2,000	1,600	1,600
<b>PJM PECO Z5 MW OFPK CLM DA LMP (4P)</b>								
4P	Spec	Mnth 1	Decrease	USD	83	75	50	45
4P	Hedge/Member	Mnth 1	Decrease	USD	75	75	45	45
4P	Spec	Mnth 2	Decrease	USD	28	25	17	15
4P	Hedge/Member	Mnth 2	Decrease	USD	25	25	15	15
4P	Spec	Mnths 3-11	Decrease	USD	22	20	11	10
4P	Hedge/Member	Mnths 3-11	Decrease	USD	20	20	10	10
4P	Spec	Mnths 12+	Decrease	USD	55	50	17	15
4P	Hedge/Member	Mnths 12+	Decrease	USD	50	50	15	15
<b>PJM PECO Z5 MW PK CLM DA LMP (4N)</b>								
4N	Spec	Mnth 1	Decrease	USD	2,750	2,500	660	600
4N	Hedge/Member	Mnth 1	Decrease	USD	2,500	2,500	600	600
4N	Spec	Mnth 2	Decrease	USD	1,100	1,000	605	550
4N	Hedge/Member	Mnth 2	Decrease	USD	1,000	1,000	550	550
4N	Spec	Mnths 3-11	Decrease	USD	1,100	1,000	605	550
4N	Hedge/Member	Mnths 3-11	Decrease	USD	1,000	1,000	550	550
4N	Spec	Mnths 12+	Decrease	USD	1,760	1,600	605	550
4N	Hedge/Member	Mnths 12+	Decrease	USD	1,600	1,600	550	550

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Outright Rates</b>								
<b>PJM PENELEC ZN OFF-PK CAL LMP FUT (50)</b>								
50	Spec	Mnth 1	Decrease	USD	132	120	50	45
50	Hedge/Member	Mnth 1	Decrease	USD	120	120	45	45
50	Spec	Mnth 2	Decrease	USD	110	100	33	30
50	Hedge/Member	Mnth 2	Decrease	USD	100	100	30	30
50	Spec	Mnths 3-11	Decrease	USD	88	80	22	20
50	Hedge/Member	Mnths 3-11	Decrease	USD	80	80	20	20
50	Spec	Mnths 12+	Decrease	USD	88	80	22	20
50	Hedge/Member	Mnths 12+	Decrease	USD	80	80	20	20
<b>PJM PENELEC ZONE PK CAL LMP FUT (49)</b>								
49	Spec	Mnth 1	Decrease	USD	4,950	4,500	1,100	1,000
49	Hedge/Member	Mnth 1	Decrease	USD	4,500	4,500	1,000	1,000
49	Spec	Mnth 2	Decrease	USD	2,420	2,200	770	700
49	Hedge/Member	Mnth 2	Decrease	USD	2,200	2,200	700	700
49	Spec	Mnths 3-11	Decrease	USD	1,760	1,600	550	500
49	Hedge/Member	Mnths 3-11	Decrease	USD	1,600	1,600	500	500
49	Spec	Mnths 12+	Decrease	USD	1,705	1,550	550	500
49	Hedge/Member	Mnths 12+	Decrease	USD	1,550	1,550	500	500
<b>PJM PEPKO DA OFF-PEAK (Q8)</b>								
Q8	Spec	Mnth 1	Decrease	USD	330	300	33	30
Q8	Hedge/Member	Mnth 1	Decrease	USD	300	300	30	30
Q8	Spec	Mnth 2	Decrease	USD	66	60	33	30
Q8	Hedge/Member	Mnth 2	Decrease	USD	60	60	30	30
Q8	Spec	Mnths 3-11	Decrease	USD	66	60	33	30
Q8	Hedge/Member	Mnths 3-11	Decrease	USD	60	60	30	30
<b>PJM PEPKO DA PEAK (R8)</b>								
R8	Spec	Mnth 1	Decrease	USD	3,630	3,300	1,100	1,000
R8	Hedge/Member	Mnth 1	Decrease	USD	3,300	3,300	1,000	1,000
R8	Spec	Mnth 2	Decrease	USD	2,750	2,500	1,100	1,000
R8	Hedge/Member	Mnth 2	Decrease	USD	2,500	2,500	1,000	1,000
R8	Spec	Mnths 3-11	Decrease	USD	2,750	2,500	1,100	1,000
R8	Hedge/Member	Mnths 3-11	Decrease	USD	2,500	2,500	1,000	1,000
R8	Spec	Mnths 12+	Decrease	USD	2,750	2,500	1,100	1,000
R8	Hedge/Member	Mnths 12+	Decrease	USD	2,500	2,500	1,000	1,000

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Outright Rates</b>								
<b>PJM PPL DA OFF-PEAK (F5)</b>								
F5	Spec	Mnth 1	Decrease	USD	66	60	44	40
F5	Hedge/Member	Mnth 1	Decrease	USD	60	60	40	40
F5	Spec	Mnth 2	Decrease	USD	33	30	17	15
F5	Hedge/Member	Mnth 2	Decrease	USD	30	30	15	15
F5	Spec	Mnths 3-11	Decrease	USD	28	25	11	10
F5	Hedge/Member	Mnths 3-11	Decrease	USD	25	25	10	10
<b>PJM PPL DA PEAK (L5)</b>								
L5	Spec	Mnth 1	Decrease	USD	2,090	1,900	715	650
L5	Hedge/Member	Mnth 1	Decrease	USD	1,900	1,900	650	650
L5	Spec	Mnth 2	Decrease	USD	880	800	495	450
L5	Hedge/Member	Mnth 2	Decrease	USD	800	800	450	450
L5	Spec	Mnths 3-11	Decrease	USD	605	550	248	225
L5	Hedge/Member	Mnths 3-11	Decrease	USD	550	550	225	225
L5	Spec	Mnths 12+	Decrease	USD	605	550	248	225
L5	Hedge/Member	Mnths 12+	Decrease	USD	550	550	225	225
<b>PJM PSEG DA OFF-PEAK (W6)</b>								
W6	Spec	Mnth 1	Decrease	USD	88	80	50	45
W6	Hedge/Member	Mnth 1	Decrease	USD	80	80	45	45
W6	Spec	Mnth 2	Decrease	USD	77	70	22	20
W6	Hedge/Member	Mnth 2	Decrease	USD	70	70	20	20
<b>PJM PSEG DA PEAK (L6)</b>								
L6	Spec	Mnth 1	Decrease	USD	2,750	2,500	660	600
L6	Hedge/Member	Mnth 1	Decrease	USD	2,500	2,500	600	600
L6	Spec	Mnth 2	Decrease	USD	1,650	1,500	550	500
L6	Hedge/Member	Mnth 2	Decrease	USD	1,500	1,500	500	500
L6	Spec	Mnths 3-11	Decrease	USD	1,650	1,500	495	450
L6	Hedge/Member	Mnths 3-11	Decrease	USD	1,500	1,500	450	450
L6	Spec	Mnths 12+	Decrease	USD	1,650	1,500	495	450
L6	Hedge/Member	Mnths 12+	Decrease	USD	1,500	1,500	450	450

## 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 WES HUB PEAK CAL MON REAL TIME (L1)

L1	Spec	Mth 1	Decrease	USD	1,650	1,500	1,100	1,000
L1	Hedge/Member	Mth 1	Decrease	USD	1,500	1,500	1,000	1,000
L1	Spec	Mnth 2	Decrease	USD	880	800	440	400
L1	Hedge/Member	Mnth 2	Decrease	USD	800	800	400	400
L1	Spec	Mnths 3-5	Decrease	USD	770	700	220	200
L1	Hedge/Member	Mnths 3-5	Decrease	USD	700	700	200	200
L1	Spec	Mnths 6-11	Decrease	USD	330	300	220	200
L1	Hedge/Member	Mnths 6-11	Decrease	USD	300	300	200	200

#### PJM WES HUB PEAK LMP 50 MW (4S)

4S	Spec	Mth 1	Decrease	USD	16,500	15,000	11,000	10,000
4S	Hedge/Member	Mth 1	Decrease	USD	15,000	15,000	10,000	10,000
4S	Spec	Mnth 2	Decrease	USD	8,800	8,000	4,400	4,000
4S	Hedge/Member	Mnth 2	Decrease	USD	8,000	8,000	4,000	4,000
4S	Spec	Mnths 3-5	Decrease	USD	7,700	7,000	2,200	2,000
4S	Hedge/Member	Mnths 3-5	Decrease	USD	7,000	7,000	2,000	2,000
4S	Spec	Mnths 6-11	Decrease	USD	3,300	3,000	2,200	2,000
4S	Hedge/Member	Mnths 6-11	Decrease	USD	3,000	3,000	2,000	2,000

#### PJM WESTH DA OFF-PEAK (E4)

E4	Spec	Mnth 1	Decrease	USD	55	50	33	30
E4	Hedge/Member	Mnth 1	Decrease	USD	50	50	30	30
E4	Spec	Mnth 2	Decrease	USD	28	25	17	15
E4	Hedge/Member	Mnth 2	Decrease	USD	25	25	15	15
E4	Spec	Mnths 3-4	Decrease	USD	22	20	11	10
E4	Hedge/Member	Mnths 3-4	Decrease	USD	20	20	10	10

#### PJM WESTH RT OFF-PEAK (N9)

N9	Spec	Mnth 1	Decrease	USD	55	50	33	30
N9	Hedge/Member	Mnth 1	Decrease	USD	50	50	30	30
N9	Spec	Mnth 2	Decrease	USD	28	25	17	15
N9	Hedge/Member	Mnth 2	Decrease	USD	25	25	15	15
N9	Spec	Mnths 3-4	Decrease	USD	22	20	11	10
N9	Hedge/Member	Mnths 3-4	Decrease	USD	20	20	10	10

## 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 WESTHDA PEAK (J4)**

J4	Spec	Mnth 1	Decrease	USD	1,650	1,500	880	800
J4	Hedge/Member	Mnth 1	Decrease	USD	1,500	1,500	800	800
J4	Spec	Mnth 2	Decrease	USD	1,100	1,000	550	500
J4	Hedge/Member	Mnth 2	Decrease	USD	1,000	1,000	500	500
J4	Spec	Mnths 3-5	Decrease	USD	605	550	275	250
J4	Hedge/Member	Mnths 3-5	Decrease	USD	550	550	250	250



## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Outright Rates</b>								
<b>FX - Outright Rates</b>								
<b>AUSTRALIAN DOLLAR FUTURES (AD)</b>								
AD	Spec		Decrease	USD	2,420	2,200	2,200	2,000
AD	Hedge/Member		Decrease	USD	2,200	2,200	2,000	2,000
<b>BPSF FUTURE (BF)</b>								
BF	Spec		Decrease	CHF	11,220	10,200	9,460	8,600
BF	Hedge/Member		Decrease	CHF	10,200	10,200	8,600	8,600
<b>E-MICRO AUD/USD FUTURES (M6A)</b>								
M6A	Spec		Decrease	USD	242	220	220	200
M6A	Hedge/Member		Decrease	USD	220	220	200	200
<b>E-MICRO CHF/USD FUTURES (MSF)</b>								
MSF	Spec		Decrease	USD	836	760	715	650
MSF	Hedge/Member		Decrease	USD	760	760	650	650
<b>E-MICRO USD/RMB FUTURES (MNY)</b>								
MNY	Spec	Mnth 1	Increase	USD	264	240	308	280
MNY	Hedge/Member	Mnth 1	Increase	USD	240	240	280	280
MNY	Spec	Mths 2+	Increase	USD	165	150	209	190
MNY	Hedge/Member	Mths 2+	Increase	USD	150	150	190	190
<b>EURO FX/SF FUTURES (RF)</b>								
RF	Spec		Decrease	CHF	6,600	6,000	5,940	5,400
RF	Hedge/Member		Decrease	CHF	6,000	6,000	5,400	5,400
<b>NEW ZEALAND FUTURES (NE)</b>								
NE	Spec		Decrease	USD	2,310	2,100	2,090	1,900
NE	Hedge/Member		Decrease	USD	2,100	2,100	1,900	1,900
<b>POLISH ZLOTY FUTURES (PZ)</b>								
PZ	Spec		Decrease	USD	6,600	6,000	5,775	5,250
PZ	Hedge/Member		Decrease	USD	6,000	6,000	5,250	5,250
<b>SFJY FUTURES (SJ)</b>								
SJ	Spec		Increase	JPY	1,045,000	950,000	1,155,000	1,050,000
SJ	Hedge/Member		Increase	JPY	950,000	950,000	1,050,000	1,050,000
<b>SWISS FRANC FUTURES (SF)</b>								
SF	Spec		Decrease	USD	8,360	7,600	7,150	6,500
SF	Hedge/Member		Decrease	USD	7,600	7,600	6,500	6,500

## 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

#### **U.S. DOLLAR\RENMINBI FUTURES (RMB)**

RMB	Spec	Mnth 1	Increase	USD	3,300	3,000	4,400	4,000
RMB	Hedge/Member	Mnth 1	Increase	USD	3,000	3,000	4,000	4,000
RMB	Spec	Mnths 2+	Increase	USD	2,200	2,000	3,300	3,000
RMB	Hedge/Member	Mnths 2+	Increase	USD	2,000	2,000	3,000	3,000

#### **USD/RMB FUTURES (CNY)**

CNY	Spec	Mnth 1	Increase	USD	2,640	2,400	3,080	2,800
CNY	Hedge/Member	Mnth 1	Increase	USD	2,400	2,400	2,800	2,800
CNY	Spec	Mths 2+	Increase	USD	1,650	1,500	2,090	1,900
CNY	Hedge/Member	Mths 2+	Increase	USD	1,500	1,500	1,900	1,900

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Outright Rates</b>								
<b>NATURAL GAS - Outright Rates</b>								
<b>ALGONQUIN CITYGATES BASIS (B4)</b>								
B4	Spec	Mnth 1	Decrease	USD	6,600	6,000	3,300	3,000
B4	Hedge/Member	Mnth 1	Decrease	USD	6,000	6,000	3,000	3,000
B4	Spec	Mnth 2	Decrease	USD	4,400	4,000	2,200	2,000
B4	Hedge/Member	Mnth 2	Decrease	USD	4,000	4,000	2,000	2,000
B4	Spec	Summer 2015	Decrease	USD	2,200	2,000	1,650	1,500
B4	Hedge/Member	Summer 2015	Decrease	USD	2,000	2,000	1,500	1,500
B4	Spec	Winter 2015/2016	Decrease	USD	3,300	3,000	2,750	2,500
B4	Hedge/Member	Winter 2015/2016	Decrease	USD	3,000	3,000	2,500	2,500
<b>ALGONQUIN CITY-GATES NAT SWING FUT (C8)</b>								
C8	Spec		Decrease	USD	49,500	45,000	28,050	25,500
C8	Hedge/Member		Decrease	USD	45,000	45,000	25,500	25,500
<b>ANR OKLAHOMA (NE)</b>								
NE	Spec	Mnths 3-7	Decrease	USD	171	155	154	140
NE	Hedge/Member	Mnths 3-7	Decrease	USD	155	155	140	140
<b>ANR, LA NAT GAS SWING FUT (K6)</b>								
K6	Spec		Decrease	USD	2,200	2,000	1,650	1,500
K6	Hedge/Member		Decrease	USD	2,000	2,000	1,500	1,500
<b>ANR, OKLA. INDEX (IQ)</b>								
IQ	Spec	Mnths 1-2	Decrease	USD	2,860	2,600	2,090	1,900
IQ	Hedge/Member	Mnths 1-2	Decrease	USD	2,600	2,600	1,900	1,900
<b>ANR, OKLA. SWING FUT (SQ)</b>								
SQ	Spec		Decrease	USD	2,860	2,600	2,090	1,900
SQ	Hedge/Member		Decrease	USD	2,600	2,600	1,900	1,900
<b>ANR,LA NAT GAS INDEX FUT (M6)</b>								
M6	Spec	Mnth 1-2	Decrease	USD	2,200	2,000	1,650	1,500
M6	Hedge/Member	Mnth 1-2	Decrease	USD	2,000	2,000	1,500	1,500
<b>CHICAGO NAT GAS FIXED PRICE FUT (XO)</b>								
XO	Spec	Mnth 1-1	Decrease	USD	1,155	1,050	935	850
XO	Hedge/Member	Mnth 1-1	Decrease	USD	1,050	1,050	850	850
XO	Spec	Mnth 2-2	Decrease	USD	1,100	1,000	880	800
XO	Hedge/Member	Mnth 2-2	Decrease	USD	1,000	1,000	800	800
XO	Spec	Mnths 3+	Decrease	USD	990	900	825	750
XO	Hedge/Member	Mnths 3+	Decrease	USD	900	900	750	750

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Outright Rates</b>								
<b>CIG BASIS (CI)</b>								
CI	Spec	Mnth 1	Decrease	USD	550	500	413	375
CI	Hedge/Member	Mnth 1	Decrease	USD	500	500	375	375
CI	Spec	Mnths 2-6	Decrease	USD	165	150	149	135
CI	Hedge/Member	Mnths 2-6	Decrease	USD	150	150	135	135
CI	Spec	Mnths 7-12	Decrease	USD	127	115	116	105
CI	Hedge/Member	Mnths 7-12	Decrease	USD	115	115	105	105
<b>CIG ROCKIES NG INDEX FUT (Z8)</b>								
Z8	Spec	Mnths 1-2	Decrease	USD	3,300	3,000	2,750	2,500
Z8	Hedge/Member	Mnths 1-2	Decrease	USD	3,000	3,000	2,500	2,500
<b>CIG ROCKIES NG SWING (U8)</b>								
U8	Spec		Decrease	USD	3,300	3,000	2,750	2,500
U8	Hedge/Member		Decrease	USD	3,000	3,000	2,500	2,500
<b>COLUMB GULF MAINLINE NG BASIS (5Z)</b>								
5Z	Spec	Mnth 1	Decrease	USD	55	50	44	40
5Z	Hedge/Member	Mnth 1	Decrease	USD	50	50	40	40
5Z	Spec	Mnths 25+	Decrease	USD	33	30	28	25
5Z	Hedge/Member	Mnths 25+	Decrease	USD	30	30	25	25
<b>COLUMBIA GAS TCO (IFERC) FIXED (CFS)</b>								
CFS	Spec	Mnth 1	Decrease	USD	1,540	1,400	1,100	1,000
CFS	Hedge/Member	Mnth 1	Decrease	USD	1,400	1,400	1,000	1,000
<b>COLUMBIA GULF NAT GAS INDEX FUT (S9)</b>								
S9	Spec	Mnth 1-2	Decrease	USD	2,200	2,000	1,650	1,500
S9	Hedge/Member	Mnth 1-2	Decrease	USD	2,000	2,000	1,500	1,500
<b>COLUMBIA GULF LA NAT GAS SWING FUT (J6)</b>								
J6	Spec	All Months	Decrease	USD	2,200	2,000	1,650	1,500
J6	Hedge/Member	All Months	Decrease	USD	2,000	2,000	1,500	1,500
<b>COLUMBIA GULF MAIN NAT G INDEX FUT (L2)</b>								
L2	Spec	Mnth 1-2	Decrease	USD	2,200	2,000	1,650	1,500
L2	Hedge/Member	Mnth 1-2	Decrease	USD	2,000	2,000	1,500	1,500
<b>COLUMBIA GULF NAT GAS SWING FUT (X2)</b>								
X2	Spec		Decrease	USD	2,200	2,000	1,650	1,500
X2	Hedge/Member		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
<b>Outright Rates</b>								
<b>COLUMBIA GULF ONSHORE BASIS FUT (GL)</b>								
GL	Spec	Mnth 1	Decrease	USD	138	125	110	100
GL	Hedge/Member	Mnth 1	Decrease	USD	125	125	100	100
GL	Spec	Mnth 2	Decrease	USD	132	120	105	95
GL	Hedge/Member	Mnth 2	Decrease	USD	120	120	95	95
GL	Spec	Mnths 3-7	Decrease	USD	127	115	99	90
GL	Hedge/Member	Mnths 3-7	Decrease	USD	115	115	90	90
GL	Spec	Mnths 8-19	Decrease	USD	83	75	72	65
GL	Hedge/Member	Mnths 8-19	Decrease	USD	75	75	65	65
GL	Spec	Mnths 19+	Decrease	USD	72	65	66	60
GL	Hedge/Member	Mnths 19+	Decrease	USD	65	65	60	60
<b>DEMARC INDEX FUTURE (DI)</b>								
DI	Spec	Mnths 1-2	Decrease	USD	4,400	4,000	3,850	3,500
DI	Hedge/Member	Mnths 1-2	Decrease	USD	4,000	4,000	3,500	3,500
<b>DEMARC SWING FUT (DT)</b>								
DT	Spec		Decrease	USD	5,170	4,700	3,850	3,500
DT	Hedge/Member		Decrease	USD	4,700	4,700	3,500	3,500
<b>DOMINION (IFERC) FIXED PRICE FUT (DSF)</b>								
DSF	Spec	Mnth 1	Decrease	USD	1,540	1,400	935	850
DSF	Hedge/Member	Mnth 1	Decrease	USD	1,400	1,400	850	850
DSF	Spec	Mnths 2+	Decrease	USD	880	800	825	750
DSF	Hedge/Member	Mnths 2+	Decrease	USD	800	800	750	750
<b>DOMINION BASIS FUT (PLATTS IFERC) (PG)</b>								
PG	Spec	Mnth 1	Decrease	USD	550	500	440	400
PG	Hedge/Member	Mnth 1	Decrease	USD	500	500	400	400
PG	Spec	Mnth 2	Decrease	USD	539	490	429	390
PG	Hedge/Member	Mnth 2	Decrease	USD	490	490	390	390
PG	Spec	Mnths 3-8	Decrease	USD	506	460	407	370
PG	Hedge/Member	Mnths 3-8	Decrease	USD	460	460	370	370
PG	Spec	Mnths 9-20	Decrease	USD	435	395	347	315
PG	Hedge/Member	Mnths 9-20	Decrease	USD	395	395	315	315
PG	Spec	Mnths 21+	Decrease	USD	413	375	330	300
PG	Hedge/Member	Mnths 21+	Decrease	USD	375	375	300	300

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Outright Rates</b>								
<b>ENABLE NAT GAS BASIS FUT (PW)</b>								
PW	Spec	Mnths 2-2	Decrease	USD	149	135	132	120
PW	Hedge/Member	Mnths 2-2	Decrease	USD	135	135	120	120
PW	Spec	Mnths 3-6	Decrease	USD	149	135	121	110
PW	Hedge/Member	Mnths 3-6	Decrease	USD	135	135	110	110
PW	Spec	Mnths 7-19	Decrease	USD	176	160	154	140
PW	Hedge/Member	Mnths 7-19	Decrease	USD	160	160	140	140
PW	Spec	Mnths 20+	Decrease	USD	176	160	165	150
PW	Hedge/Member	Mnths 20+	Decrease	USD	160	160	150	150
<b>ENABLE NAT GAS INDEX (II)</b>								
II	Spec	Mnth 1-2	Decrease	USD	2,200	2,000	1,650	1,500
II	Hedge/Member	Mnth 1-2	Decrease	USD	2,000	2,000	1,500	1,500
<b>ENABLE NAT GAS SWING FUT (VX)</b>								
VX	Spec	All Months	Decrease	USD	2,200	2,000	1,650	1,500
VX	Hedge/Member	All Months	Decrease	USD	2,000	2,000	1,500	1,500
<b>FL GAS ZONE 1 NAT GAS SWING FUT (Y9)</b>								
Y9	Spec		Decrease	USD	3,960	3,600	3,080	2,800
Y9	Hedge/Member		Decrease	USD	3,600	3,600	2,800	2,800
<b>FL GAS ZONE 3 NAT GAS INDEX FUT (Q9)</b>								
Q9	Spec	Mnth 1-2	Decrease	USD	2,200	2,000	1,650	1,500
Q9	Hedge/Member	Mnth 1-2	Decrease	USD	2,000	2,000	1,500	1,500
<b>FL GAS ZONE 3 NAT GASSWING FUT (J8)</b>								
J8	Spec	All Months	Decrease	USD	2,200	2,000	1,650	1,500
J8	Hedge/Member	All Months	Decrease	USD	2,000	2,000	1,500	1,500
<b>FLORIDA GAS ZONE 2 NAT GA SWING (X5)</b>								
X5	Spec		Decrease	USD	2,200	2,000	1,650	1,500
X5	Hedge/Member		Decrease	USD	2,000	2,000	1,500	1,500
<b>FLORIDA GAS ZONE3 BASIS FUT (FP)</b>								
FP	Spec	Mnth 2	Decrease	USD	94	85	83	75
FP	Hedge/Member	Mnth 2	Decrease	USD	85	85	75	75
FP	Spec	Mnths 3-6	Decrease	USD	88	80	77	70
FP	Hedge/Member	Mnths 3-6	Decrease	USD	80	80	70	70
FP	Spec	Mnths 7-12	Decrease	USD	94	85	83	75
FP	Hedge/Member	Mnths 7-12	Decrease	USD	85	85	75	75
FP	Spec	Mnths 13+	Decrease	USD	94	85	83	75
FP	Hedge/Member	Mnths 13+	Decrease	USD	85	85	75	75

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Outright Rates</b>								
<b>FLORIDA ZONE 2 NAT GAS INDEX FUT (C3)</b>								
C3	Spec	Mnths 1-2	Decrease	USD	2,200	2,000	1,650	1,500
C3	Hedge/Member	Mnths 1-2	Decrease	USD	2,000	2,000	1,500	1,500
<b>HENRY HUB INDEX FUT (IN)</b>								
IN	Spec	Mnth 1-2	Decrease	USD	1,650	1,500	1,100	1,000
IN	Hedge/Member	Mnth 1-2	Decrease	USD	1,500	1,500	1,000	1,000
<b>HENRY HUB SWING FUTURE (SN)</b>								
SN	Spec	All Months	Decrease	USD	1,650	1,500	1,100	1,000
SN	Hedge/Member	All Months	Decrease	USD	1,500	1,500	1,000	1,000
<b>HOUSTON SHIP CHANNEL BASIS FUT (NH)</b>								
NH	Spec	Mnths 7-12	Increase	USD	94	85	116	105
NH	Hedge/Member	Mnths 7-12	Increase	USD	85	85	105	105
NH	Spec	Mnths 13+	Increase	USD	110	100	127	115
NH	Hedge/Member	Mnths 13+	Increase	USD	100	100	115	115
<b>HOUSTON SHIP CHANNEL INDEX FUT (IP)</b>								
IP	Spec	Mnth 1-2	Decrease	USD	2,200	2,000	1,650	1,500
IP	Hedge/Member	Mnth 1-2	Decrease	USD	2,000	2,000	1,500	1,500
<b>HOUSTON SHIP CHANNEL PIPE FUT (XJ)</b>								
XJ	Spec		Decrease	USD	1,100	1,000	660	600
XJ	Hedge/Member		Decrease	USD	1,000	1,000	600	600
<b>HOUSTON SHIP CHANNEL SWING (SM)</b>								
SM	Spec	All Months	Decrease	USD	2,200	2,000	1,650	1,500
SM	Hedge/Member	All Months	Decrease	USD	2,000	2,000	1,500	1,500
<b>KERN RIVER OPAL PLANT SWING FUT (SR)</b>								
SR	Spec		Decrease	USD	3,300	3,000	2,200	2,000
SR	Hedge/Member		Decrease	USD	3,000	3,000	2,000	2,000
<b>MAIN NAT GAS INDEX FUT (V8)</b>								
V8	Spec	Mnth 1-2	Decrease	USD	2,200	2,000	1,650	1,500
V8	Hedge/Member	Mnth 1-2	Decrease	USD	2,000	2,000	1,500	1,500
<b>MALIN NG SWING (W9)</b>								
W9	Spec		Decrease	USD	2,200	2,000	1,650	1,500
W9	Hedge/Member		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
<b>Outright Rates</b>								
<b>MICHCON IFERC FIXED PRICE FUT (MFS)</b>								
MFS	Spec	Mnths 1-2	Decrease	USD	1,980	1,800	990	900
MFS	Hedge/Member	Mnths 1-2	Decrease	USD	1,800	1,800	900	900
MFS	Spec	Mnths 6+	Decrease	USD	660	600	550	500
MFS	Hedge/Member	Mnths 6+	Decrease	USD	600	600	500	500
<b>MICHIGAN BASIS (NF)</b>								
NF	Spec	Mnth 1	Decrease	USD	770	700	440	400
NF	Hedge/Member	Mnth 1	Decrease	USD	700	700	400	400
NF	Spec	Mnth 2	Decrease	USD	484	440	385	350
NF	Hedge/Member	Mnth 2	Decrease	USD	440	440	350	350
NF	Spec	Mnths 13+	Decrease	USD	286	260	253	230
NF	Hedge/Member	Mnths 13+	Decrease	USD	260	260	230	230
<b>NATURAL GAS PIPELINE TEXOK BASIS FUT (PD)</b>								
PD	Spec	Mnth 1	Decrease	USD	110	100	99	90
PD	Hedge/Member	Mnth 1	Decrease	USD	100	100	90	90
PD	Spec	Mnths 2	Decrease	USD	94	85	83	75
PD	Hedge/Member	Mnths 2	Decrease	USD	85	85	75	75
PD	Spec	Mnths 3-6	Decrease	USD	88	80	77	70
PD	Hedge/Member	Mnths 3-6	Decrease	USD	80	80	70	70
PD	Spec	Mnths 7-12	Decrease	USD	94	85	77	70
PD	Hedge/Member	Mnths 7-12	Decrease	USD	85	85	70	70
<b>NGPL MID-CON (IFERC) FIXED PRICE (NFS)</b>								
NFS	Spec	Mth 1	Decrease	USD	1,540	1,400	935	850
NFS	Hedge/Member	Mth 1	Decrease	USD	1,400	1,400	850	850
NFS	Spec	Mth 2	Decrease	USD	1,100	1,000	880	800
NFS	Hedge/Member	Mth 2	Decrease	USD	1,000	1,000	800	800
NFS	Spec	Mths 7-12	Decrease	USD	693	630	583	530
NFS	Hedge/Member	Mths 7-12	Decrease	USD	630	630	530	530
NFS	Spec	Mths 13+	Decrease	USD	550	500	440	400
NFS	Hedge/Member	Mths 13+	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
<b>Outright Rates</b>								
<b>NGPL MIDCONTINENT BASIS FUT (NL)</b>								
NL	Spec	Mnth 1	Decrease	USD	275	250	220	200
NL	Hedge/Member	Mnth 1	Decrease	USD	250	250	200	200
NL	Spec	Mnth 2	Decrease	USD	220	200	176	160
NL	Hedge/Member	Mnth 2	Decrease	USD	200	200	160	160
NL	Spec	Mnths 3-6	Decrease	USD	209	190	165	150
NL	Hedge/Member	Mnths 3-6	Decrease	USD	190	190	150	150
NL	Spec	Mnths 7-12	Decrease	USD	154	140	110	100
NL	Hedge/Member	Mnths 7-12	Decrease	USD	140	140	100	100
NL	Spec	Mnths 13+	Decrease	USD	242	220	198	180
NL	Hedge/Member	Mnths 13+	Decrease	USD	220	220	180	180
<b>NGPL STX NAT GAS INDEX FUT (N6)</b>								
N6	Spec	Mnth 1-2	Decrease	USD	2,200	2,000	1,650	1,500
N6	Hedge/Member	Mnth 1-2	Decrease	USD	2,000	2,000	1,500	1,500
<b>NGPL STX NAT GAS SWING FUT (Q7)</b>								
Q7	Spec	All Months	Decrease	USD	2,200	2,000	1,650	1,500
Q7	Hedge/Member	All Months	Decrease	USD	2,000	2,000	1,500	1,500
<b>NGPL, MIDCONTINENT INDEX (IW)</b>								
IW	Spec	Mnths 1-2	Decrease	USD	3,300	3,000	2,200	2,000
IW	Hedge/Member	Mnths 1-2	Decrease	USD	3,000	3,000	2,000	2,000
<b>NGPL, MIDCONTINENT SWING FUT (PX)</b>								
PX	Spec		Decrease	USD	3,300	3,000	2,200	2,000
PX	Hedge/Member		Decrease	USD	3,000	3,000	2,000	2,000
<b>NGPL, TEXOK INDEX (OI)</b>								
OI	Spec	Mnth 1-2	Decrease	USD	2,750	2,500	1,650	1,500
OI	Hedge/Member	Mnth 1-2	Decrease	USD	2,500	2,500	1,500	1,500
<b>NGPL, TEXOK SWING FUT (OX)</b>								
OX	Spec		Decrease	USD	2,750	2,500	1,650	1,500
OX	Hedge/Member		Decrease	USD	2,500	2,500	1,500	1,500
<b>NORTHERN NATURAL GAS DEMAR BASIS FUT (PE)</b>								
PE	Spec	Mnth 1	Decrease	USD	770	700	693	630
PE	Hedge/Member	Mnth 1	Decrease	USD	700	700	630	630
PE	Spec	Mnths 2-5	Decrease	USD	506	460	440	400
PE	Hedge/Member	Mnths 2-5	Decrease	USD	460	460	400	400

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Outright Rates</b>								
<b>NORTHERN ROCKIES PIPE FUT (XR)</b>								
XR	Spec	Mnth 1-1	Decrease	USD	1,540	1,400	770	700
XR	Hedge/Member	Mnth 1-1	Decrease	USD	1,400	1,400	700	700
XR	Spec	Mnth 2-2	Decrease	USD	1,210	1,100	660	600
XR	Hedge/Member	Mnth 2-2	Decrease	USD	1,100	1,100	600	600
XR	Spec	Mnths 3+	Decrease	USD	1,155	1,050	550	500
XR	Hedge/Member	Mnths 3+	Decrease	USD	1,050	1,050	500	500
<b>NORTHWEST PIPELINE BASIS FUT (NR)</b>								
NR	Spec	Mnth 1	Decrease	USD	418	380	347	315
NR	Hedge/Member	Mnth 1	Decrease	USD	380	380	315	315
NR	Spec	Mnths 2-6	Decrease	USD	292	265	237	215
NR	Hedge/Member	Mnths 2-6	Decrease	USD	265	265	215	215
NR	Spec	Mnths 7-9	Decrease	USD	171	155	143	130
NR	Hedge/Member	Mnths 7-9	Decrease	USD	155	155	130	130
NR	Spec	Mnths 17+	Increase	USD	132	120	154	140
NR	Hedge/Member	Mnths 17+	Increase	USD	120	120	140	140
<b>ONEOK NATURAL GAS SWING FUT (M3)</b>								
M3	Spec		Decrease	USD	2,200	2,000	1,650	1,500
M3	Hedge/Member		Decrease	USD	2,000	2,000	1,500	1,500
<b>ONEOK OKLAHOMA NAT GAS INDEX FUT (C7)</b>								
C7	Spec	Mnths 1-2	Decrease	USD	2,200	2,000	1,650	1,500
C7	Hedge/Member	Mnths 1-2	Decrease	USD	2,000	2,000	1,500	1,500
<b>ONEOK OKLAHOMA NG BASIS (8X)</b>								
8X	Spec	Mnth 1	Decrease	USD	264	240	242	220
8X	Hedge/Member	Mnth 1	Decrease	USD	240	240	220	220
8X	Spec	Mnth 2	Decrease	USD	187	170	165	150
8X	Hedge/Member	Mnth 2	Decrease	USD	170	170	150	150
8X	Spec	Mnths 3-7	Decrease	USD	176	160	154	140
8X	Hedge/Member	Mnths 3-7	Decrease	USD	160	160	140	140
8X	Spec	Mnths 8-20	Decrease	USD	165	150	143	130
8X	Hedge/Member	Mnths 8-20	Decrease	USD	150	150	130	130
8X	Spec	Mnths 21+	Decrease	USD	440	400	396	360
8X	Hedge/Member	Mnths 21+	Decrease	USD	400	400	360	360

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Outright Rates</b>								
<b>PANHANDLE BASIS FUT (PH)</b>								
PH	Spec	Mnth 1	Decrease	USD	220	200	176	160
PH	Hedge/Member	Mnth 1	Decrease	USD	200	200	160	160
PH	Spec	Mnth 2	Decrease	USD	149	135	132	120
PH	Hedge/Member	Mnth 2	Decrease	USD	135	135	120	120
PH	Spec	Summer 2015	Decrease	USD	143	130	132	120
PH	Hedge/Member	Summer 2015	Decrease	USD	130	130	120	120
PH	Spec	Winter 2015/2016	Decrease	USD	138	125	127	115
PH	Hedge/Member	Winter 2015/2016	Decrease	USD	125	125	115	115
<b>PANHANDLE INDEX FUT (IV)</b>								
IV	Spec	Mnths 1-2	Decrease	USD	2,750	2,500	1,650	1,500
IV	Hedge/Member	Mnths 1-2	Decrease	USD	2,500	2,500	1,500	1,500
<b>PANHANDLE PIPE FUT (XH)</b>								
XH	Spec	Mnth 1	Decrease	USD	1,100	1,000	880	800
XH	Hedge/Member	Mnth 1	Decrease	USD	1,000	1,000	800	800
<b>PANHANDLE SWING FUTURE (SV)</b>								
SV	Spec		Decrease	USD	2,750	2,500	1,650	1,500
SV	Hedge/Member		Decrease	USD	2,500	2,500	1,500	1,500
<b>PERMIAN BASIS FUT (PM)</b>								
PM	Spec	Mths 1	Decrease	USD	435	395	330	300
PM	Hedge/Member	Mths 1	Decrease	USD	395	395	300	300
PM	Spec	Mths 2	Decrease	USD	138	125	121	110
PM	Hedge/Member	Mths 2	Decrease	USD	125	125	110	110
PM	Spec	Mths 3-6	Decrease	USD	132	120	110	100
PM	Hedge/Member	Mths 3-6	Decrease	USD	120	120	100	100
PM	Spec	Mths 7-12	Decrease	USD	127	115	105	95
PM	Hedge/Member	Mths 7-12	Decrease	USD	115	115	95	95

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Outright Rates</b>								
<b>PERMIAN IFERC FIXED PRICE FUT (PFS)</b>								
PFS	Spec	Mnth 1	Decrease	USD	1,155	1,050	935	850
PFS	Hedge/Member	Mnth 1	Decrease	USD	1,050	1,050	850	850
PFS	Spec	Mnths 2	Decrease	USD	1,100	1,000	880	800
PFS	Hedge/Member	Mnths 2	Decrease	USD	1,000	1,000	800	800
PFS	Spec	Mnths 3-6	Decrease	USD	847	770	715	650
PFS	Hedge/Member	Mnths 3-6	Decrease	USD	770	770	650	650
PFS	Spec	Mnths 7-12	Decrease	USD	715	650	605	550
PFS	Hedge/Member	Mnths 7-12	Decrease	USD	650	650	550	550
PFS	Spec	Mnths 13+	Decrease	USD	550	500	440	400
PFS	Hedge/Member	Mnths 13+	Decrease	USD	500	500	400	400
<b>PG&amp;E CITYGATE INDEX (IK)</b>								
IK	Spec	Mnth 1-2	Decrease	USD	2,200	2,000	1,650	1,500
IK	Hedge/Member	Mnth 1-2	Decrease	USD	2,000	2,000	1,500	1,500
<b>PG&amp;E CITYGATE SWING FUT (SK)</b>								
SK	Spec		Decrease	USD	2,200	2,000	1,650	1,500
SK	Hedge/Member		Decrease	USD	2,000	2,000	1,500	1,500
<b>PGE CITYGATE NAT GAS FIXD PRICE FUT (XQ)</b>								
XQ	Spec	Mnth 1-1	Decrease	USD	1,155	1,050	660	600
XQ	Hedge/Member	Mnth 1-1	Decrease	USD	1,050	1,050	600	600
XQ	Spec	Mnth 2-2	Decrease	USD	1,100	1,000	550	500
XQ	Hedge/Member	Mnth 2-2	Decrease	USD	1,000	1,000	500	500
XQ	Spec	Mnths 3+	Decrease	USD	825	750	495	450
XQ	Hedge/Member	Mnths 3+	Decrease	USD	750	750	450	450
<b>ROCKIES KERN OPAL - NW INDEX (IR)</b>								
IR	Spec	Mnths 1-2	Increase	USD	1,320	1,200	2,200	2,000
IR	Hedge/Member	Mnths 1-2	Increase	USD	1,200	1,200	2,000	2,000
<b>SAN JUAN BASIS FUT (NJ)</b>								
NJ	Spec	Mth 1	Decrease	USD	352	320	275	250
NJ	Hedge/Member	Mth 1	Decrease	USD	320	320	250	250
NJ	Spec	Mth 2	Decrease	USD	165	150	132	120
NJ	Hedge/Member	Mth 2	Decrease	USD	150	150	120	120
<b>SAN JUAN INDEX (IJ)</b>								
IJ	Spec	Mnth 1-2	Decrease	USD	2,200	2,000	1,650	1,500
IJ	Hedge/Member	Mnth 1-2	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
<b>Outright Rates</b>								
<b>SAN JUAN PIPE FUT (XX)</b>								
XX	Spec	Mnth 1-1	Decrease	USD	1,540	1,400	770	700
XX	Hedge/Member	Mnth 1-1	Decrease	USD	1,400	1,400	700	700
XX	Spec	Mnth 2-2	Decrease	USD	1,155	1,050	660	600
XX	Hedge/Member	Mnth 2-2	Decrease	USD	1,050	1,050	600	600
XX	Spec	Mnths 3+	Decrease	USD	1,100	1,000	550	500
XX	Hedge/Member	Mnths 3+	Decrease	USD	1,000	1,000	500	500
<b>SAN JUAN SWING FUT (SJ)</b>								
SJ	Spec		Decrease	USD	2,200	2,000	1,650	1,500
SJ	Hedge/Member		Decrease	USD	2,000	2,000	1,500	1,500
<b>SOCAL BASIS FUT (NS)</b>								
NS	Spec	Mnth 2	Decrease	USD	226	205	193	175
NS	Hedge/Member	Mnth 2	Decrease	USD	205	205	175	175
NS	Spec	Mnth 3-6	Decrease	USD	220	200	187	170
NS	Hedge/Member	Mnth 3-6	Decrease	USD	200	200	170	170
<b>SOCAL CITY-GATE NAT GAS INDEX FUT (N5)</b>								
N5	Spec	Mnth 1-2	Decrease	USD	2,200	2,000	1,650	1,500
N5	Hedge/Member	Mnth 1-2	Decrease	USD	2,000	2,000	1,500	1,500
<b>SOCAL CITY-GATE NAT GAS SWING FUT (T9)</b>								
T9	Spec		Decrease	USD	2,200	2,000	1,650	1,500
T9	Hedge/Member		Decrease	USD	2,000	2,000	1,500	1,500
<b>SOCAL INDEX (IF)</b>								
IF	Spec	Mnth 1-2	Decrease	USD	2,200	2,000	1,650	1,500
IF	Hedge/Member	Mnth 1-2	Decrease	USD	2,000	2,000	1,500	1,500
<b>SOCAL PIPE FUT (XN)</b>								
XN	Spec	Mnth 1	Decrease	USD	1,540	1,400	880	800
XN	Hedge/Member	Mnth 1	Decrease	USD	1,400	1,400	800	800
XN	Spec	Mnth 2	Decrease	USD	1,210	1,100	770	700
XN	Hedge/Member	Mnth 2	Decrease	USD	1,100	1,100	700	700
XN	Spec	Mnths 3-6	Decrease	USD	1,100	1,000	660	600
XN	Hedge/Member	Mnths 3-6	Decrease	USD	1,000	1,000	600	600
XN	Spec	Mnths 7-12	Decrease	USD	825	750	660	600
XN	Hedge/Member	Mnths 7-12	Decrease	USD	750	750	600	600
<b>SOCAL SWING FUT (SF)</b>								
SF	Spec		Decrease	USD	2,200	2,000	1,650	1,500
SF	Hedge/Member		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
<b>Outright Rates</b>								
<b>SOUTH STAR TEX OKLHM KNS NG B (8Z)</b>								
8Z	Spec	Mnth 1	Decrease	USD	303	275	275	250
8Z	Hedge/Member	Mnth 1	Decrease	USD	275	275	250	250
8Z	Spec	Mnths 3-7	Decrease	USD	242	220	215	195
8Z	Hedge/Member	Mnths 3-7	Decrease	USD	220	220	195	195
<b>SOUTHERN NAT LA NAT GAS SWING FUT (K8)</b>								
K8	Spec		Decrease	USD	2,200	2,000	1,650	1,500
K8	Hedge/Member		Decrease	USD	2,000	2,000	1,500	1,500
<b>SOUTHERN NAT, LA NAT GAS INDEX FUT (M8)</b>								
M8	Spec	Mths 1-2	Decrease	USD	2,200	2,000	1,650	1,500
M8	Hedge/Member	Mths 1-2	Decrease	USD	2,000	2,000	1,500	1,500
<b>SOUTHERN STAR NAT GAS INDEX FUT (C9)</b>								
C9	Spec	Mnth 1-2	Decrease	USD	2,200	2,000	1,650	1,500
C9	Hedge/Member	Mnth 1-2	Decrease	USD	2,000	2,000	1,500	1,500
<b>SOUTHERN STAR, TX-OKLA SWING (M4)</b>								
M4	Spec		Decrease	USD	2,200	2,000	1,650	1,500
M4	Hedge/Member		Decrease	USD	2,000	2,000	1,500	1,500
<b>SUMAS BASIS FUT (NK)</b>								
NK	Spec	Mnth 1	Decrease	USD	506	460	407	370
NK	Hedge/Member	Mnth 1	Decrease	USD	460	460	370	370
NK	Spec	Mnths 15+	Decrease	USD	330	300	297	270
NK	Hedge/Member	Mnths 15+	Decrease	USD	300	300	270	270
<b>SUMAS INDEX (IU)</b>								
IU	Spec	Mnth 1-2	Decrease	USD	2,750	2,500	2,090	1,900
IU	Hedge/Member	Mnth 1-2	Decrease	USD	2,500	2,500	1,900	1,900
<b>SUMAS SWING FUT (SU)</b>								
SU	Spec		Decrease	USD	2,750	2,500	2,090	1,900
SU	Hedge/Member		Decrease	USD	2,500	2,500	1,900	1,900
<b>TCO BASIS FUT (TC)</b>								
TC	Spec	Mnth 1	Decrease	USD	165	150	160	145
TC	Hedge/Member	Mnth 1	Decrease	USD	150	150	145	145
TC	Spec	Mnth 2-2	Decrease	USD	160	145	154	140
TC	Hedge/Member	Mnth 2-2	Decrease	USD	145	145	140	140
TC	Spec	Mnths 20+	Decrease	USD	330	300	275	250
TC	Hedge/Member	Mnths 20+	Decrease	USD	300	300	250	250

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Outright Rates</b>								
<b>TCO NG INDEX FUT (Q1)</b>								
Q1	Spec	Mnth 1-2	Decrease	USD	2,200	2,000	1,650	1,500
Q1	Hedge/Member	Mnth 1-2	Decrease	USD	2,000	2,000	1,500	1,500
<b>TCO NG SWING (A1)</b>								
A1	Spec		Decrease	USD	2,200	2,000	1,650	1,500
A1	Hedge/Member		Decrease	USD	2,000	2,000	1,500	1,500
<b>TENN 800 LEG NAT GAS INDEX FUT (L4)</b>								
L4	Spec	Mnths 1-2	Decrease	USD	2,200	2,000	1,650	1,500
L4	Hedge/Member	Mnths 1-2	Decrease	USD	2,000	2,000	1,500	1,500
<b>TENNESSEE 500 LEG NG SWING (T7)</b>								
T7	Spec	All Months	Decrease	USD	2,200	2,000	1,650	1,500
T7	Hedge/Member	All Months	Decrease	USD	2,000	2,000	1,500	1,500
<b>TENNESSEE 800 LEG NAT GAS SWING (W5)</b>								
W5	Spec		Decrease	USD	2,200	2,000	1,650	1,500
W5	Hedge/Member		Decrease	USD	2,000	2,000	1,500	1,500
<b>TENNESSEE ZONE 0 NG INDEX FUT (Q4)</b>								
Q4	Spec	Mnth 1-2	Decrease	USD	2,200	2,000	1,650	1,500
Q4	Hedge/Member	Mnth 1-2	Decrease	USD	2,000	2,000	1,500	1,500
<b>TENNESSEE ZONE 0 NG SWING (T4)</b>								
T4	Spec	All Months	Decrease	USD	2,200	2,000	1,650	1,500
T4	Hedge/Member	All Months	Decrease	USD	2,000	2,000	1,500	1,500
<b>TETCO NG STX SWING (T2)</b>								
T2	Spec	All Months	Decrease	USD	2,200	2,000	1,650	1,500
T2	Hedge/Member	All Months	Decrease	USD	2,000	2,000	1,500	1,500
<b>TETCO STX NG INDEX FUT (Q2)</b>								
Q2	Spec	Mnth 1-2	Decrease	USD	2,200	2,000	1,650	1,500
Q2	Hedge/Member	Mnth 1-2	Decrease	USD	2,000	2,000	1,500	1,500
<b>TEXAS EAST ELA NAT GAS INDEX FUT (M9)</b>								
M9	Spec	Mnth 1-2	Decrease	USD	2,200	2,000	1,650	1,500
M9	Hedge/Member	Mnth 1-2	Decrease	USD	2,000	2,000	1,500	1,500
<b>TEXAS EAST WLA NAT GAS INDEX FUT (C2)</b>								
C2	Spec	Mnth 1-2	Decrease	USD	2,200	2,000	1,650	1,500
C2	Hedge/Member	Mnth 1-2	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
<b>Outright Rates</b>								
<b>TEXAS EASTERN ELA NAT GAS SWING (K9)</b>								
K9	Spec		Decrease	USD	2,200	2,000	1,650	1,500
K9	Hedge/Member		Decrease	USD	2,000	2,000	1,500	1,500
<b>TEXAS EASTERN WLA NAT GAS SWING (X8)</b>								
X8	Spec	All Months	Decrease	USD	2,200	2,000	1,650	1,500
X8	Hedge/Member	All Months	Decrease	USD	2,000	2,000	1,500	1,500
<b>TEXAS EASTERN ZONE M-3 BASIS FUT (NX)</b>								
NX	Spec	Mth 1	Decrease	USD	2,200	2,000	1,320	1,200
NX	Hedge/Member	Mth 1	Decrease	USD	2,000	2,000	1,200	1,200
NX	Spec	Winter 2016/2017	Decrease	USD	1,320	1,200	1,100	1,000
NX	Hedge/Member	Winter 2016/2017	Decrease	USD	1,200	1,200	1,000	1,000
<b>TEXAS GAS ZONE1 NG BASIS (9F)</b>								
9F	Spec	Mnth 1	Decrease	USD	220	200	198	180
9F	Hedge/Member	Mnth 1	Decrease	USD	200	200	180	180
9F	Spec	Mnth 2-2	Decrease	USD	209	190	187	170
9F	Hedge/Member	Mnth 2-2	Decrease	USD	190	190	170	170
9F	Spec	Mnths 3-7	Decrease	USD	204	185	182	165
9F	Hedge/Member	Mnths 3-7	Decrease	USD	185	185	165	165
9F	Spec	Mnths 8-19	Decrease	USD	193	175	171	155
9F	Hedge/Member	Mnths 8-19	Decrease	USD	175	175	155	155
9F	Spec	Mnths 20+	Decrease	USD	385	350	347	315
9F	Hedge/Member	Mnths 20+	Decrease	USD	350	350	315	315
<b>TRANSCO ZONE 1 NAT GAS INDEX FUT (C4)</b>								
C4	Spec	Mths 1-2	Decrease	USD	2,640	2,400	2,090	1,900
C4	Hedge/Member	Mths 1-2	Decrease	USD	2,400	2,400	1,900	1,900
<b>TRANSCO ZONE 1 NAT GAS SWING FUT (X4)</b>								
X4	Spec		Decrease	USD	2,640	2,400	2,090	1,900
X4	Hedge/Member		Decrease	USD	2,400	2,400	1,900	1,900



## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Outright Rates</b>								
<b>TRANSCO ZONE 3 BASIS (CZ)</b>								
CZ	Spec	Mth 1	Decrease	USD	138	125	110	100
CZ	Hedge/Member	Mth 1	Decrease	USD	125	125	100	100
CZ	Spec	Mth 2	Decrease	USD	99	90	88	80
CZ	Hedge/Member	Mth 2	Decrease	USD	90	90	80	80
CZ	Spec	Mths 3 - 6	Decrease	USD	72	65	66	60
CZ	Hedge/Member	Mths 3 - 6	Decrease	USD	65	65	60	60
CZ	Spec	Mths 7 - 12	Decrease	USD	77	70	66	60
CZ	Hedge/Member	Mths 7 - 12	Decrease	USD	70	70	60	60
CZ	Spec	Mths 13+	Decrease	USD	77	70	66	60
CZ	Hedge/Member	Mths 13+	Decrease	USD	70	70	60	60
<b>TRANSCO ZONE 3 NG INDEX FUT (Y6)</b>								
Y6	Spec	Mnth 1-2	Decrease	USD	2,200	2,000	1,650	1,500
Y6	Hedge/Member	Mnth 1-2	Decrease	USD	2,000	2,000	1,500	1,500
<b>TRANSCO ZONE 3 NG SWING (T6)</b>								
T6	Spec		Decrease	USD	2,200	2,000	1,650	1,500
T6	Hedge/Member		Decrease	USD	2,000	2,000	1,500	1,500
<b>TRANSCO ZONE 4 NAT GAS INDEX FUT (B2)</b>								
B2	Spec	Mnth 1	Decrease	USD	2,200	2,000	1,650	1,500
B2	Hedge/Member	Mnth 1	Decrease	USD	2,000	2,000	1,500	1,500
<b>TRANSCO ZONE 4 NAT GAS SWING FUT (J3)</b>								
J3	Spec	All Months	Decrease	USD	2,200	2,000	1,650	1,500
J3	Hedge/Member	All Months	Decrease	USD	2,000	2,000	1,500	1,500
<b>TRANSCO ZONE 6 BASIS FUT (NZ)</b>								
NZ	Spec	Mnth 1	Decrease	USD	4,400	4,000	2,200	2,000
NZ	Hedge/Member	Mnth 1	Decrease	USD	4,000	4,000	2,000	2,000
NZ	Spec	Winter 2015/2016	Increase	USD	1,100	1,000	1,430	1,300
NZ	Hedge/Member	Winter 2015/2016	Increase	USD	1,000	1,000	1,300	1,300
NZ	Spec	Summer 2016	Decrease	USD	1,980	1,800	1,100	1,000
NZ	Hedge/Member	Summer 2016	Decrease	USD	1,800	1,800	1,000	1,000
NZ	Spec	Winter 2016/2017	Decrease	USD	1,980	1,800	1,430	1,300
NZ	Hedge/Member	Winter 2016/2017	Decrease	USD	1,800	1,800	1,300	1,300

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Outright Rates</b>								
<b>TRANSCO ZONE 6 NON NY BASIS FUT (TZ6)</b>								
TZ6	Spec	Mnth 1	Decrease	USD	3,850	3,500	2,200	2,000
TZ6	Hedge/Member	Mnth 1	Decrease	USD	3,500	3,500	2,000	2,000
TZ6	Spec	Mnth 2	Decrease	USD	2,200	2,000	1,320	1,200
TZ6	Hedge/Member	Mnth 2	Decrease	USD	2,000	2,000	1,200	1,200
TZ6	Spec	Summer 2016	Decrease	USD	1,815	1,650	1,210	1,100
TZ6	Hedge/Member	Summer 2016	Decrease	USD	1,650	1,650	1,100	1,100
<b>TRANSCO ZONE 6 SWING FUT (ST)</b>								
ST	Spec	All Months	Decrease	USD	28,600	26,000	18,700	17,000
ST	Hedge/Member	All Months	Decrease	USD	26,000	26,000	17,000	17,000
<b>TRANSCO ZONE4 BASIS FUT (TR)</b>								
TR	Spec	Mnths 8-14	Decrease	USD	39	35	33	30
TR	Hedge/Member	Mnths 8-14	Decrease	USD	35	35	30	30
<b>TRUNKLINE ELA NAT GAS INDEX FUT (M7)</b>								
M7	Spec	Mnth 1-2	Decrease	USD	2,200	2,000	1,650	1,500
M7	Hedge/Member	Mnth 1-2	Decrease	USD	2,000	2,000	1,500	1,500
<b>TRUNKLINE ELA NAT GAS SWING FUT (K7)</b>								
K7	Spec		Decrease	USD	2,200	2,000	1,650	1,500
K7	Hedge/Member		Decrease	USD	2,000	2,000	1,500	1,500
<b>VENTURA BASIS FUT (PF)</b>								
PF	Spec	Mnth 1	Decrease	USD	1,210	1,100	968	880
PF	Hedge/Member	Mnth 1	Decrease	USD	1,100	1,100	880	880
PF	Spec	Mnths 2-5	Decrease	USD	644	585	578	525
PF	Hedge/Member	Mnths 2-5	Decrease	USD	585	585	525	525
PF	Spec	Mnths 6+	Decrease	USD	215	195	193	175
PF	Hedge/Member	Mnths 6+	Decrease	USD	195	195	175	175
<b>VENTURA INDEX FUTURE (VI)</b>								
VI	Spec	Mnth 1-2	Increase	USD	4,950	4,500	5,060	4,600
VI	Hedge/Member	Mnth 1-2	Increase	USD	4,500	4,500	4,600	4,600

## 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

#### WAHA IFERC FIXED PRICE FUT (WFS)

WFS	Spec	Mths 1	Decrease	USD	1,155	1,050	935	850
WFS	Hedge/Member	Mths 1	Decrease	USD	1,050	1,050	850	850
WFS	Spec	Mnths 2	Decrease	USD	1,100	1,000	880	800
WFS	Hedge/Member	Mnths 2	Decrease	USD	1,000	1,000	800	800
WFS	Spec	Mnths 7-12	Decrease	USD	649	590	539	490
WFS	Hedge/Member	Mnths 7-12	Decrease	USD	590	590	490	490
WFS	Spec	Mnths 13+	Decrease	USD	495	450	385	350
WFS	Hedge/Member	Mnths 13+	Decrease	USD	450	450	350	350

#### WAHA INDEX FUT (IY)

IY	Spec	Mnth 1-2	Decrease	USD	2,200	2,000	1,650	1,500
IY	Hedge/Member	Mnth 1-2	Decrease	USD	2,000	2,000	1,500	1,500

#### WAHA SWING FUTURE (SY)

SY	Spec	All Months	Decrease	USD	2,200	2,000	1,650	1,500
SY	Hedge/Member	All Months	Decrease	USD	2,000	2,000	1,500	1,500

#### WAHA TEXAS BASIS FUT (NW)

NW	Spec	Mnth 1	Decrease	USD	550	500	330	300
NW	Hedge/Member	Mnth 1	Decrease	USD	500	500	300	300
NW	Spec	Mnth 2	Decrease	USD	110	100	88	80
NW	Hedge/Member	Mnth 2	Decrease	USD	100	100	80	80

### PETROLEUM CRACKS AND SPREADS - Outright Rates

#### EURO 3.5% FUEL OIL SPREAD (FK)

FK	Spec	Mnths 12+	New	USD			2,310	2,100
FK	Hedge/Member	Mnths 12+	New	USD			2,100	2,100

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Intra Spreads</b>								
<b>AGRICULTURE - Intra Spreads</b>								
<b>Feeder Cattle (FC) - All Months (FEEDER CATTLE FUTURES)</b>								
FC	Spec		Increase	USD	1,100	1,000	1,210	1,100
FC	Hedge/Member		Increase	USD	1,000	1,000	1,100	1,100
<b>NATURAL GAS - Intra Spreads</b>								
<b>Houston Ship Channel Basis Swap (Platts IFERC) - All Months (HOUSTON SHIP CHANNEL BASIS FUT)</b>								
NH	Spec		Increase	USD	110	100	127	115
NH	Hedge/Member		Increase	USD	100	100	115	115

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Inter-commodity Spread Rates</b>						
<b>CRUDE OIL - Inter-commodity Spread Rates</b>						
<b>BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME) vs HEATING OIL CALENDAR SWAP FUTURES (NY-MP - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	45%	45%	40%	40%
<b>BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME) vs HEATING OIL FINANCIAL FUTURES (NY-BH - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	70%	70%	60%	60%
<b>BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME) vs HEATING OIL LAST DAY FINANCIAL FUTURES (NY-23 - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	70%	70%	60%	60%
<b>BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME) vs NEW YORK HARBOR NO. 2 HEATING OIL FUTURES (NY-HO - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	70%	70%	60%	60%
<b>BRENT CRUDE OIL BULLET SWAP FINANCIAL (NYM-BB, BZ, CY) vs HEATING OIL (NYM-HO, BH, MP)</b>						
Spread Credit Rate	Decrease	+1:-1	70%	70%	60%	60%
<b>BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME) vs HEATING OIL FINANCIAL FUTURES (NY-BH - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	45%	45%	40%	40%
Spread Credit Rate	Decrease	+1:-1	70%	70%	60%	60%
<b>BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME) vs HEATING OIL LAST DAY FINANCIAL FUTURES (NY-23 - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	45%	45%	40%	40%
Spread Credit Rate	Decrease	+1:-1	70%	70%	60%	60%
<b>BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME) vs NEW YORK HARBOR NO. 2 HEATING OIL FUTURES (NY-HO - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	45%	45%	40%	40%
Spread Credit Rate	Decrease	+1:-1	70%	70%	60%	60%
Spread Credit Rate	Decrease	+1:-1	63%	63%	55%	55%
<b>BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME) vs RBOB GASOLINE FUTURES (NY-RB - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	70%	70%	62%	62%
<b>BRENT CRUDE OIL PENULTIMATE FINANCIAL FUTURES (NY-BB - CME) vs HEATING OIL FINANCIAL FUTURES (NY-BH - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	45%	45%	40%	40%
Spread Credit Rate	Decrease	+1:-1	70%	70%	60%	60%
<b>BRENT CRUDE OIL PENULTIMATE FINANCIAL FUTURES (NY-BB - CME) vs HEATING OIL LAST DAY FINANCIAL FUTURES (NY-23 - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	45%	45%	40%	40%
Spread Credit Rate	Decrease	+1:-1	70%	70%	60%	60%

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Inter-commodity Spread Rates</b>						
<b>BRENT CRUDE OIL PENULTIMATE FINANCIAL FUTURES (NY-BB - CME) vs RBOB GASOLINE FUTURES (NY-RB - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	63%	63%	55%	55%
Spread Credit Rate	Decrease	+1:-1	70%	70%	62%	62%
<b>CRUDE OIL FINANCIAL FUTURES (NY-WS - CME) vs RBOB GASOLINE CALENDAR SWAP FUTURES (NY-RL - CME)</b>						
Spread Credit Rate	Increase	+1:-1	70%	70%	80%	80%
<b>CRUDE OIL FINANCIAL FUTURES (NY-WS - CME) vs RBOB GASOLINE FINANCIAL FUTURES (NY-RT - CME)</b>						
Spread Credit Rate	Increase	+1:-1	70%	70%	80%	80%
<b>CRUDE OIL FINANCIAL FUTURES (NY-WS - CME) vs RBOB GASOLINE FUTURES (NY-RB - CME)</b>						
Spread Credit Rate	Increase	+1:-1	70%	70%	80%	80%
<b>LIGHT SWEET CRUDE OIL FUTURES (NY-CL - CME) vs RBOB GASOLINE FINANCIAL FUTURES (NY-RT - CME)</b>						
Spread Credit Rate	Increase	+1:-1	70%	70%	80%	80%
<b>NY HARBOR RBOB GASOLINE (NYM-RB, RL, RT) vs LIGHT, SWEET CRUDE OIL FUTURES (NYM-CL, CS, WS)</b>						
Spread Credit Rate	Increase	+1:-1	70%	70%	80%	80%
<b>RBOB GASOLINE CALENDAR SWAP FUTURES (NY-RL - CME) vs BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	63%	63%	55%	55%
<b>RBOB GASOLINE CALENDAR SWAP FUTURES (NY-RL - CME) vs BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	70%	70%	62%	62%
<b>RBOB GASOLINE CALENDAR SWAP FUTURES (NY-RL - CME) vs BRENT CRUDE OIL PENULTIMATE FINANCIAL FUTURES (NY-BB - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	70%	70%	62%	62%
<b>RBOB GASOLINE CALENDAR SWAP FUTURES (NY-RL - CME) vs LIGHT SWEET CRUDE OIL FUTURES (NY-CL - CME)</b>						
Spread Credit Rate	Increase	+1:-1	70%	70%	80%	80%
<b>RBOB GASOLINE LAST DAY FINANCIAL FUTURES (NY-27 - CME) vs BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	63%	63%	55%	55%
Spread Credit Rate	Decrease	+1:-1	70%	70%	62%	62%
<b>RBOB GASOLINE LAST DAY FINANCIAL FUTURES (NY-27 - CME) vs BRENT CRUDE OIL PENULTIMATE FINANCIAL FUTURES (NY-BB - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	63%	63%	55%	55%
Spread Credit Rate	Decrease	+1:-1	70%	70%	62%	62%

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Inter-commodity Spread Rates</b>						
<b>REFINED PRODUCTS - Inter-commodity Spread Rates</b>						
<b>BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME) vs HEATING OIL CALENDAR SWAP FUTURES (NY-MP - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	45%	45%	40%	40%
<b>BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME) vs HEATING OIL FINANCIAL FUTURES (NY-BH - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	70%	70%	60%	60%
<b>BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME) vs HEATING OIL LAST DAY FINANCIAL FUTURES (NY-23 - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	70%	70%	60%	60%
<b>BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME) vs NEW YORK HARBOR NO. 2 HEATING OIL FUTURES (NY-HO - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	70%	70%	60%	60%
<b>BRENT CRUDE OIL BULLET SWAP FINANCIAL (NYM-BB, BZ, CY) vs HEATING OIL (NYM-HO, BH, MP)</b>						
Spread Credit Rate	Decrease	+1:-1	70%	70%	60%	60%
<b>BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME) vs HEATING OIL FINANCIAL FUTURES (NY-BH - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	45%	45%	40%	40%
Spread Credit Rate	Decrease	+1:-1	70%	70%	60%	60%
<b>BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME) vs HEATING OIL LAST DAY FINANCIAL FUTURES (NY-23 - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	45%	45%	40%	40%
Spread Credit Rate	Decrease	+1:-1	70%	70%	60%	60%
<b>BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME) vs NEW YORK HARBOR NO. 2 HEATING OIL FUTURES (NY-HO - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	45%	45%	40%	40%
Spread Credit Rate	Decrease	+1:-1	70%	70%	60%	60%
Spread Credit Rate	Decrease	+1:-1	63%	63%	55%	55%
<b>BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME) vs RBOB GASOLINE FUTURES (NY-RB - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	70%	70%	62%	62%
<b>BRENT CRUDE OIL PENULTIMATE FINANCIAL FUTURES (NY-BB - CME) vs HEATING OIL FINANCIAL FUTURES (NY-BH - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	45%	45%	40%	40%
Spread Credit Rate	Decrease	+1:-1	70%	70%	60%	60%
<b>BRENT CRUDE OIL PENULTIMATE FINANCIAL FUTURES (NY-BB - CME) vs HEATING OIL LAST DAY FINANCIAL FUTURES (NY-23 - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	45%	45%	40%	40%
Spread Credit Rate	Decrease	+1:-1	70%	70%	60%	60%

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Inter-commodity Spread Rates</b>						
<b>BRENT CRUDE OIL PENULTIMATE FINANCIAL FUTURES (NY-BB - CME) vs RBOB GASOLINE FUTURES (NY-RB - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	63%	63%	55%	55%
Spread Credit Rate	Decrease	+1:-1	70%	70%	62%	62%
<b>CRUDE OIL FINANCIAL FUTURES (NY-WS - CME) vs RBOB GASOLINE CALENDAR SWAP FUTURES (NY-RL - CME)</b>						
Spread Credit Rate	Increase	+1:-1	70%	70%	80%	80%
<b>CRUDE OIL FINANCIAL FUTURES (NY-WS - CME) vs RBOB GASOLINE FINANCIAL FUTURES (NY-RT - CME)</b>						
Spread Credit Rate	Increase	+1:-1	70%	70%	80%	80%
<b>CRUDE OIL FINANCIAL FUTURES (NY-WS - CME) vs RBOB GASOLINE FUTURES (NY-RB - CME)</b>						
Spread Credit Rate	Increase	+1:-1	70%	70%	80%	80%
<b>EIA FLAT TAX ON-HIGHWAY DIESEL SWAP FUTURES (NY-A5 - CME) vs NEW YORK HARBOR NO. 2 HEATING OIL FUTURES (NY-HO, BH, MP)</b>						
Spread Credit Rate	Decrease	+1:-1	75%	75%	65%	65%
<b>HEATING OIL LAST DAY FINANCIAL FUTURES (NY-23 - CME) vs RBOB GASOLINE CALENDAR SWAP FUTURES (NY-RL - CME)</b>						
Spread Credit Rate	Increase	+1:-1	55%	55%	60%	60%
Spread Credit Rate	New	+1:-1			85%	85%
Spread Credit Rate	Increase	+1:-1	65%	65%	75%	75%
<b>HEATING OIL LAST DAY FINANCIAL FUTURES (NY-23 - CME) vs RBOB GASOLINE FINANCIAL FUTURES (NY-RT - CME)</b>						
Spread Credit Rate	New	+1:-1			60%	60%
Spread Credit Rate	Increase	+1:-1	55%	55%	85%	85%
Spread Credit Rate	New	+1:-1			55%	55%
Spread Credit Rate	Increase	+1:-1	65%	65%	75%	75%
<b>HEATING OIL LAST DAY FINANCIAL FUTURES (NY-23 - CME) vs RBOB GASOLINE FUTURES (NY-RB - CME)</b>						
Spread Credit Rate	Increase	+1:-1	55%	55%	60%	60%
Spread Credit Rate	New	+1:-1			85%	85%
Spread Credit Rate	Increase	+1:-1	65%	65%	75%	75%
<b>HEATING OIL LAST DAY FINANCIAL FUTURES (NY-23 - CME) vs RBOB GASOLINE LAST DAY FINANCIAL FUTURES (NY-27 - CME)</b>						
Spread Credit Rate	Increase	+1:-1	55%	55%	60%	60%
Spread Credit Rate	New	+1:-1			85%	85%
Spread Credit Rate	Increase	+1:-1	65%	65%	75%	75%
<b>LIGHT SWEET CRUDE OIL FUTURES (NY-CL - CME) vs RBOB GASOLINE FINANCIAL FUTURES (NY-RT - CME)</b>						
Spread Credit Rate	Increase	+1:-1	70%	70%	80%	80%
<b>LOS ANGELES CARB DIESEL (OPIS) OUTRIGHT SWAP FUTURES (NY-LX - CME) vs EIA FLAT TAX ON-HIGHWAY DIESEL SWAP FUTURES (NY-A5 - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	70%	70%	55%	55%



## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Inter-commodity Spread Rates</b>						
<b>NY HARBOR RBOB (BLENDSTOCK) GAS (NYM-RB, RT, RL) vs EUROPEAN GASOIL (ICE) CALENDAR SWAP (NYM-GX - CME)</b>						
Spread Credit Rate	Increase	+2:-15	50%	50%	60%	60%
<b>NY HARBOR RBOB GASOLINE (NYM-RB, RL, RT) vs HEATING OIL FINANCIAL FUTURES (NYM-HO, BH, MP)</b>						
Spread Credit Rate	New	+1:-1			75%	75%
Spread Credit Rate	New	+1:-1			60%	60%
Spread Credit Rate	Increase	+1:-1	55%	55%	85%	85%
Spread Credit Rate	Decrease	+1:-1	65%	65%	55%	55%
<b>NY HARBOR RBOB GASOLINE (NYM-RB, RL, RT) vs LIGHT, SWEET CRUDE OIL FUTURES (NYM-CL, CS, WS)</b>						
Spread Credit Rate	Increase	+1:-1	70%	70%	80%	80%
<b>RBOB GASOLINE CALENDAR SWAP FUTURES (NY-RL - CME) vs BRENT (ICE) CALENDAR SWAP FUTURES (NY-CY - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	63%	63%	55%	55%
<b>RBOB GASOLINE CALENDAR SWAP FUTURES (NY-RL - CME) vs BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	70%	70%	62%	62%
<b>RBOB GASOLINE CALENDAR SWAP FUTURES (NY-RL - CME) vs BRENT CRUDE OIL PENULTIMATE FINANCIAL FUTURES (NY-BB - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	70%	70%	62%	62%
<b>RBOB GASOLINE CALENDAR SWAP FUTURES (NY-RL - CME) vs EUROPEAN GASOIL (ICE) SWAP FUTURES (NY-GX - CME)</b>						
Spread Credit Rate	Increase	+2:-15	50%	50%	60%	60%
<b>RBOB GASOLINE CALENDAR SWAP FUTURES (NY-RL - CME) vs EUROPEAN GASOIL BULLET SWAP FUTURES (NY-BG - CME)</b>						
Spread Credit Rate	Increase	+2:-15	45%	45%	60%	60%
<b>RBOB GASOLINE CALENDAR SWAP FUTURES (NY-RL - CME) vs HEATING OIL CALENDAR SWAP FUTURES (NY-MP - CME)</b>						
Spread Credit Rate	Increase	+1:-1	55%	55%	60%	60%
Spread Credit Rate	Increase	+1:-1	65%	65%	85%	85%
<b>RBOB GASOLINE CALENDAR SWAP FUTURES (NY-RL - CME) vs LIGHT SWEET CRUDE OIL FUTURES (NY-CL - CME)</b>						
Spread Credit Rate	Increase	+1:-1	70%	70%	80%	80%
<b>RBOB GASOLINE CALENDAR SWAP FUTURES (NY-RL - CME) vs NEW YORK HARBOR NO. 2 HEATING OIL FUTURES (NY-HO - CME)</b>						
Spread Credit Rate	Increase	+1:-1	65%	65%	85%	85%
<b>RBOB GASOLINE FINANCIAL FUTURES (NY-RT - CME) vs EUROPEAN GASOIL (ICE) SWAP FUTURES (NY-GX - CME)</b>						
Spread Credit Rate	Increase	+2:-15	50%	50%	60%	60%

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Inter-commodity Spread Rates</b>						
<b>RBOB GASOLINE FUTURES (NY-RB - CME) vs EUROPEAN GASOIL BULLET SWAP FUTURES (NY-BG - CME)</b>						
Spread Credit Rate	Increase	+2:-15	45%	45%	60%	60%
<b>RBOB GASOLINE FUTURES (NY-RB - CME) vs HEATING OIL CALENDAR SWAP FUTURES (NY-MP - CME)</b>						
Spread Credit Rate	New	+1:-1			75%	75%
Spread Credit Rate	Increase	+1:-1	65%	65%	85%	85%
<b>RBOB GASOLINE FUTURES (NY-RB, RL, RT) vs EUROPEAN GASOIL (ICE) SWAP FUTURES (NY-GX, BG)</b>						
Spread Credit Rate	Increase	+2:-15	50%	50%	60%	60%
<b>RBOB GASOLINE LAST DAY FINANCIAL FUTURES (NY-27 - CME) vs BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	63%	63%	55%	55%
Spread Credit Rate	Decrease	+1:-1	70%	70%	62%	62%
<b>RBOB GASOLINE LAST DAY FINANCIAL FUTURES (NY-27 - CME) vs BRENT CRUDE OIL PENULTIMATE FINANCIAL FUTURES (NY-BB - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	63%	63%	55%	55%
Spread Credit Rate	Decrease	+1:-1	70%	70%	62%	62%
<b>RBOB GASOLINE LAST DAY FINANCIAL FUTURES (NY-27 - CME) vs EUROPEAN GASOIL (ICE) SWAP FUTURES (NY-GX - CME)</b>						
Spread Credit Rate	Increase	+2:-15	50%	50%	60%	60%

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Tier Description	Change	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Short Option Minimum (SOM) Rate</b>						
<b>COAL - Short Option Minimum (SOM) Rate</b>						
<b>COAL (API 2) CIF ARA (ARGUS/MCCLOSKEY) SYNTHETIC CALENDAR FUTURES STRIP (CLA, CLP, MTC) - SOM</b>						
Clearing Member Rate		Decrease	660.000	600.000	330.000	300.000
<b>COAL (API 2) CIF ARA (ARGUS/MCCLOSKEY) SYNTHETIC QUARTERLY FUTURES STRIP (CQA, CQS) - SOM</b>						
Clearing Member Rate		Decrease	165.000	150.000	82.500	75.000
<b>COAL (API 4) FOB RICHARDS BAY (ARGUS/MCCLOSKEY) SYNTHETIC CALENDAR FUTURES STRIP (MFY, RLA, RLS) - SOM</b>						
Clearing Member Rate		Decrease	660.000	600.000	330.000	300.000
<b>CRUDE OIL - Short Option Minimum (SOM) Rate</b>						
<b>DME OMAN CRUDE OIL SWAP FUTURES (DOA, DOO) - SOM</b>						
Clearing Member Rate		Decrease	44.000	40.000	33.000	30.000
<b>OMAN CRUDE OIL (OQ, OQ1, OQB, OQE, ZG) - SOM</b>						
Clearing Member Rate		Decrease	44.000	40.000	33.000	30.000
<b>CRUDE OIL SPREADS - Short Option Minimum (SOM) Rate</b>						
<b>WTI CRUDE OIL 1 MONTH CSO (7A, A2) - SOM</b>						
Clearing Member Rate		Increase	17.600	16.000	18.700	17.000
<b>WTI-BRENT (ICE) BULLET SWAP FUTURES (BV, BY) - SOM</b>						
Clearing Member Rate		Decrease	38.500	35.000	33.000	30.000
<b>ETHANOL - Short Option Minimum (SOM) Rate</b>						
<b>CHICAGO ETHANOL (PLATTS) SWAP FUTURES (CU, CVR) - SOM</b>						
Clearing Member Rate		Decrease	49.500	45.000	44.000	40.000

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Tier Description	Change	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Short Option Minimum (SOM) Rate</b>						
<b>METALS - Short Option Minimum (SOM) Rate</b>						
<b>ALUMINUM FUTURES (ALI) - SOM</b>						
Clearing Member Rate		Decrease	55.000	50.000	27.500	25.000
<b>ALUMINUM MW US TRANSACTION PREMIUM PLATTS (25MT) SWAP FUTURES (AUP) - SOM</b>						
Clearing Member Rate		Decrease	27.500	25.000	22.000	20.000
<b>CLEARED OTC LONDON SILVER FORWARD (CASH MARGIN) (LSF) - SOM</b>						
Clearing Member Rate		Decrease	11.000	10.000	1.100	1.000
<b>COPPER CALENDAR SWAP FUTURES (CAP, HGS) - SOM</b>						
Clearing Member Rate		Decrease	44.000	40.000	33.000	30.000
<b>COPPER FUTURES (HG, HGT, HX, HXW, QC) - SOM</b>						
Clearing Member Rate		Decrease	44.000	40.000	33.000	30.000
<b>GOLD FUTURES (8Q, GC, GCT, L01, L02, L03, L04, L05, L06, L07, L08, L09, L10, L11, L12, L13, L14, L15, L16, L17, L18, L19, L20, L21, L22, L23, L24, L25, L26, L27, L28, L29, L30, L31, MGC, OG, OGW, QO, QS) - SOM</b>						
Clearing Member Rate		Decrease	44.000	40.000	38.500	35.000
<b>IRON ORE FUTURES (ICT, TIO) - SOM</b>						
Clearing Member Rate		Decrease	27.500	25.000	16.500	15.000
<b>PLATINUM FUTURES (PL, PO, PQ, QR) - SOM</b>						
Clearing Member Rate		Decrease	27.500	25.000	22.000	20.000

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Tier Description	Change	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Short Option Minimum (SOM) Rate</b>						
<b>NATURAL GAS - Short Option Minimum (SOM) Rate</b>						
<b>HENRY HUB NATURAL GAS FUTURES (HHQ, KD, LN, LNW, MNG, NG, NGT, ON, ONW, U01, U02, U03, U04, U05, U06, U07, U08, U09, U10, U11, U12, U13, U14, U15, U16, U17, U18, U19, U20, U21, U22, U23, U24, U25, U26, U27, U28, U29, U30, U31) - SOM</b>						
Clearing Member Rate		Decrease	44.000	40.000	38.500	35.000
<b>HENRY HUB NATURAL GAS PENULTIMATE FINANCIAL FUTURES (E7, HH, HP, NP, QG) - SOM</b>						
Clearing Member Rate		Decrease	44.000	40.000	38.500	35.000
<b>HOUSTON SHIP CHANNEL PIPE SWAP (PK, XJ) - SOM</b>						
Clearing Member Rate		Decrease	22.000	20.000	11.000	10.000
<b>NATURAL GAS COMBO ON CALENDAR STRIP (6J, 8P) - SOM</b>						
Clearing Member Rate		Decrease	528.000	480.000	110.000	100.000
<b>NORTHERN ROCKIES PIPE SWAP (XR, ZR) - SOM</b>						
Clearing Member Rate		Decrease	22.000	20.000	11.000	10.000
<b>NYMEX NATURAL GAS (H.HUB LTD) FUT (E7, HH, HHT, NN, NNT) - SOM</b>						
Clearing Member Rate		Decrease	44.000	40.000	38.500	35.000
<b>PG&amp;E CITYGATE NATURAL GAS (PLATTS IFERC) FIXED PRICE FUTURES (CW, XQ) - SOM</b>						
Clearing Member Rate		Decrease	22.000	20.000	11.000	10.000
<b>SAN JUAN PIPE SWAP (PJ, XX) - SOM</b>						
Clearing Member Rate		Decrease	22.000	20.000	11.000	10.000
<b>SOCAL PIPE SWAP (XN, ZN) - SOM</b>						
Clearing Member Rate		Decrease	22.000	20.000	11.000	10.000
<b>NGL/PETROCHEMICALS - Short Option Minimum (SOM) Rate</b>						
<b>MONT BELVIEU ETHANE 5 DECIMALS (OPIS) SWAP FUTURES (4I, 4J, C0, F1, W8) - SOM</b>						
Clearing Member Rate		Decrease	16.500	15.000	11.000	10.000
<b>MONT BELVIEU LDH PROPANE 5 DECIMALS (OPIS) SWAP FUTURES (4H, 4K, 81, B0, G1, PT) - SOM</b>						
Clearing Member Rate		Decrease	49.500	45.000	38.500	35.000
<b>REFINED PRODUCTS - Short Option Minimum (SOM) Rate</b>						
<b>GULF COAST JET FUEL (PLATTS) CALENDAR SWAP FUTURES (GE, GVR) - SOM</b>						
Clearing Member Rate		Decrease	49.500	45.000	44.000	40.000
<b>HEATING OIL 1 MONTH CSO (FA, GH) - SOM</b>						
Clearing Member Rate		Decrease	55.000	50.000	33.000	30.000

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	<u>Tier Description</u>	Change	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Volatility Scan (volScan) Rate</b>						
<b>COAL - Volatility Scan (volScan) Rate</b>						
<b>COAL (API 2) CIF ARA (ARGUS/MCCLOSKEY) SYNTHETIC CALENDAR FUTURES STRIP (CLA, CLP, MTC) - volScan</b>						
Clearing Member Rate		Decrease		0.040		0.030
<b>COAL (API 4) FOB RICHARDS BAY (ARGUS/MCCLOSKEY) SWAP FUTURES (MFF, MFO) - volScan</b>						
Clearing Member Rate	Mnth 2-6	Decrease		0.035		0.025
Clearing Member Rate	Mnth 7+	Decrease		0.020		0.015
<b>COAL (API 4) FOB RICHARDS BAY (ARGUS/MCCLOSKEY) SYNTHETIC CALENDAR FUTURES STRIP (MFY, RLA, RLS) - volScan</b>						
Clearing Member Rate		Decrease		0.050		0.030

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	<u>Tier Description</u>	Change	Current Initial	Current Maintenance	New Initial	New Maintenance
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**Volatility Scan (volScan) Rate**

**CRUDE OIL - Volatility Scan (volScan) Rate**

**DME OMAN CRUDE OIL SWAP FUTURES (DOA, DOO) - volScan**

Clearing Member Rate	Mnth3	Decrease		0.050		0.040
Clearing Member Rate	Mnth4	Decrease		0.050		0.030
Clearing Member Rate	Mnth5	Decrease		0.050		0.030
Clearing Member Rate	Mnth6	Decrease		0.050		0.030
Clearing Member Rate	Mnth7	Decrease		0.050		0.030
Clearing Member Rate	Mnth8	Decrease		0.050		0.030
Clearing Member Rate	Mnth9	Decrease		0.050		0.030
Clearing Member Rate	Mnth10	Decrease		0.050		0.030
Clearing Member Rate	Mnth11	Decrease		0.050		0.030
Clearing Member Rate	Mnth12	Decrease		0.050		0.030
Clearing Member Rate	Mnth13	Decrease		0.050		0.030
Clearing Member Rate	Mnth14	Decrease		0.050		0.030
Clearing Member Rate	Mnth15	Decrease		0.050		0.030
Clearing Member Rate	Mnth16	Decrease		0.050		0.030
Clearing Member Rate	Mnth17	Decrease		0.050		0.030
Clearing Member Rate	Mnth18	Decrease		0.050		0.030
Clearing Member Rate	Mnth19	Decrease		0.050		0.030
Clearing Member Rate	Mnth20	Decrease		0.050		0.030
Clearing Member Rate	Mnth21	Decrease		0.050		0.030
Clearing Member Rate	Mnth22	Decrease		0.050		0.030
Clearing Member Rate	Mnth23	Decrease		0.050		0.030
Clearing Member Rate	Mnth24	Decrease		0.050		0.030
Clearing Member Rate	Mnth25	Decrease		0.050		0.030
Clearing Member Rate	Mnth26	Decrease		0.050		0.030
Clearing Member Rate	Mnth27	Decrease		0.050		0.030
Clearing Member Rate	Mnth28	Decrease		0.050		0.030
Clearing Member Rate	Mnth29	Decrease		0.050		0.030
Clearing Member Rate	Mnth30	Decrease		0.050		0.030
Clearing Member Rate	Mnth31	Decrease		0.050		0.030
Clearing Member Rate	Mnth32	Decrease		0.050		0.030
Clearing Member Rate	Mnth33	Decrease		0.050		0.030
Clearing Member Rate	Mnth34	Decrease		0.050		0.030
Clearing Member Rate	Mnth35+	Decrease		0.050		0.030

**DUBAI CRUDE OIL (PLATTS) CALENDAR SWAP FUTURES (AH, DBL, DC) - volScan**

Clearing Member Rate	Mnth4	Decrease		0.060		0.050
Clearing Member Rate	Mnth5	Decrease		0.050		0.040
Clearing Member Rate	Mnth6	Decrease		0.050		0.030
Clearing Member Rate	Mnth7	Decrease		0.050		0.030
Clearing Member Rate	Mnth8	Decrease		0.050		0.030

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Tier Description	Change	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Volatility Scan (volScan) Rate</b>						
Clearing Member Rate	Mnth9	Decrease		0.050		0.030
Clearing Member Rate	Mnth10	Decrease		0.050		0.030
Clearing Member Rate	Mnth11	Decrease		0.050		0.030
Clearing Member Rate	Mnth12	Decrease		0.050		0.030
Clearing Member Rate	Mnth13	Decrease		0.050		0.030
Clearing Member Rate	Mnth14	Decrease		0.050		0.030
Clearing Member Rate	Mnth15	Decrease		0.050		0.030
Clearing Member Rate	Mnth16	Decrease		0.050		0.030
Clearing Member Rate	Mnth17	Decrease		0.050		0.030
Clearing Member Rate	Mnth18	Decrease		0.050		0.030
Clearing Member Rate	Mnth19	Decrease		0.050		0.030
Clearing Member Rate	Mnth20	Decrease		0.050		0.030
Clearing Member Rate	Mnth21	Decrease		0.050		0.030
Clearing Member Rate	Mnth22	Decrease		0.050		0.030
Clearing Member Rate	Mnth23	Decrease		0.050		0.030
Clearing Member Rate	Mnth24	Decrease		0.050		0.030
Clearing Member Rate	Mnth25	Decrease		0.050		0.030
Clearing Member Rate	Mnth26	Decrease		0.050		0.030
Clearing Member Rate	Mnth27	Decrease		0.050		0.030
Clearing Member Rate	Mnth28	Decrease		0.050		0.030
Clearing Member Rate	Mnth29	Decrease		0.050		0.030
Clearing Member Rate	Mnth30	Decrease		0.050		0.030
Clearing Member Rate	Mnth31	Decrease		0.050		0.030
Clearing Member Rate	Mnth32	Decrease		0.050		0.030
Clearing Member Rate	Mnth33	Decrease		0.050		0.030
Clearing Member Rate	Mnth34	Decrease		0.050		0.030
Clearing Member Rate	Mnth35+	Decrease		0.050		0.030
<b>LOOP CRUDE OIL STORAGE FUTURES (LPS) - volScan</b>						
Clearing Member Rate	Mth 1	Increase		0.050		0.060
Clearing Member Rate	Mths 2-3	Increase		0.040		0.050
<b>OMAN CRUDE OIL (OQ, OQ1, OQB, OQE, ZG) - volScan</b>						
Clearing Member Rate	Mnth3	Decrease		0.050		0.040
Clearing Member Rate	Mnth4	Decrease		0.050		0.030
Clearing Member Rate	Mnth5	Decrease		0.050		0.030
Clearing Member Rate	Mnth6	Decrease		0.050		0.030
Clearing Member Rate	Mnth7	Decrease		0.050		0.030
Clearing Member Rate	Mnth8	Decrease		0.050		0.030
Clearing Member Rate	Mnth9	Decrease		0.050		0.030
Clearing Member Rate	Mnth10	Decrease		0.050		0.030
Clearing Member Rate	Mnth11	Decrease		0.050		0.030
Clearing Member Rate	Mnth12	Decrease		0.050		0.030
Clearing Member Rate	Mnth13	Decrease		0.050		0.030



## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Tier Description	Change	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Volatility Scan (volScan) Rate</b>						
Clearing Member Rate	Mnth14	Decrease		0.050		0.030
Clearing Member Rate	Mnth15	Decrease		0.050		0.030
Clearing Member Rate	Mnth16	Decrease		0.050		0.030
Clearing Member Rate	Mnth17	Decrease		0.050		0.030
Clearing Member Rate	Mnth18	Decrease		0.050		0.030
Clearing Member Rate	Mnth19	Decrease		0.050		0.030
Clearing Member Rate	Mnth20	Decrease		0.050		0.030
Clearing Member Rate	Mnth21	Decrease		0.050		0.030
Clearing Member Rate	Mnth22	Decrease		0.050		0.030
Clearing Member Rate	Mnth23	Decrease		0.050		0.030
Clearing Member Rate	Mnth24	Decrease		0.050		0.030
Clearing Member Rate	Mnth25	Decrease		0.050		0.030
Clearing Member Rate	Mnth26	Decrease		0.050		0.030
Clearing Member Rate	Mnth27	Decrease		0.050		0.030
Clearing Member Rate	Mnth28	Decrease		0.050		0.030
Clearing Member Rate	Mnth29	Decrease		0.050		0.030
Clearing Member Rate	Mnth30	Decrease		0.050		0.030
Clearing Member Rate	Mnth31	Decrease		0.050		0.030
Clearing Member Rate	Mnth32	Decrease		0.050		0.030
Clearing Member Rate	Mnth33	Decrease		0.050		0.030
Clearing Member Rate	Mnth34	Decrease		0.050		0.030
Clearing Member Rate	Mnth35+	Decrease		0.050		0.030

### ELECTRICITY - Volatility Scan (volScan) Rate

#### **PJM PEAK CALENDAR-MONTH LMP SWAP FUTURES (JM, JO, PML) - volScan**

Clearing Member Rate	Mnth 1	Decrease		0.500		0.330
Clearing Member Rate	Mnth 2	Decrease		0.400		0.220
Clearing Member Rate	Mnths 4-5	Decrease		0.080		0.060
Clearing Member Rate	Mnth 3	Decrease		0.250		0.110

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Tier Description	Change	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Volatility Scan (volScan) Rate</b>						
<b>EQUITY INDEX - Volatility Scan (volScan) Rate</b>						
<b>DOW JONES (11, 11, DO, EYM, EZD, YM, YM) - volScan</b>						
Clearing Member Rate		Decrease		0.060		0.050
<b>NASDAQ-100 (7H, DN, ND, ND, NQ, NQ, QN, YH) - volScan</b>						
Clearing Member Rate		Decrease		0.070		0.060
<b>S&amp;P 500 (7S, 8A, 8B, ES, ES, EV, EW, SP, SP, YP1) - volScan</b>						
Clearing Member Rate		Decrease		0.060		0.050
<b>S&amp;P 500 GROWTH (7G, SG, SG, SGT, TGT, YG) - volScan</b>						
Clearing Member Rate		Decrease		0.070		0.060
<b>S&amp;P 500 VALUE (7W, SU, SU, SUT, TST, Y91) - volScan</b>						
Clearing Member Rate		Decrease		0.070		0.050
<b>S&amp;P MIDCAP 400 (8Z, EMT, ETT, MD, MD, ME, ME, YZ) - volScan</b>						
Clearing Member Rate		Decrease		0.060		0.050
<b>ETHANOL - Volatility Scan (volScan) Rate</b>						
<b>CHICAGO ETHANOL (PLATTS) SWAP FUTURES (CU, CVR) - volScan</b>						
Clearing Member Rate	Mth 1	Decrease		0.100		0.080
Clearing Member Rate	Mths 2	Decrease		0.070		0.050
Clearing Member Rate	Mth 3-7	Decrease		0.050		0.030
Clearing Member Rate	Mnth 8+	Decrease		0.040		0.020

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	<u>Tier Description</u>	Change	Current Initial	Current Maintenance	New Initial	New Maintenance
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### Volatility Scan (volScan) Rate

#### METALS - Volatility Scan (volScan) Rate

##### ALUMINUM FUTURES (ALI) - volScan

Clearing Member Rate	Mths 1-4	Decrease		0.080		0.060
Clearing Member Rate	Mths 5+	Decrease		0.050		0.030

##### ALUMINUM MW US TRANSACTION PREMIUM PLATTS (25MT) SWAP FUTURES (AUP) - volScan

Clearing Member Rate		Decrease		0.060		0.040
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##### COPPER CALENDAR SWAP FUTURES (CAP, HGS) - volScan

Clearing Member Rate	Mnth1	Decrease		0.060		0.050
Clearing Member Rate	Mnth2	Decrease		0.060		0.040
Clearing Member Rate	Mnth3	Decrease		0.060		0.040
Clearing Member Rate	Mnth4	Decrease		0.060		0.040
Clearing Member Rate	Mnth5	Decrease		0.040		0.030
Clearing Member Rate	Mnth6	Decrease		0.040		0.030
Clearing Member Rate	Mnth7	Decrease		0.040		0.030
Clearing Member Rate	Mnth8	Decrease		0.040		0.020
Clearing Member Rate	Mnth9	Decrease		0.040		0.020
Clearing Member Rate	Mnth10	Decrease		0.040		0.020
Clearing Member Rate	Mnth11	Decrease		0.040		0.020
Clearing Member Rate	Mnth12	Decrease		0.040		0.020
Clearing Member Rate	Mnth13	Decrease		0.040		0.020
Clearing Member Rate	Mnth14	Decrease		0.040		0.020
Clearing Member Rate	Mnth15	Decrease		0.040		0.020
Clearing Member Rate	Mnth16	Decrease		0.040		0.020
Clearing Member Rate	Mnth17	Decrease		0.040		0.020
Clearing Member Rate	Mnth18	Decrease		0.040		0.020
Clearing Member Rate	Mnth19	Decrease		0.040		0.020
Clearing Member Rate	Mnth20	Decrease		0.040		0.020
Clearing Member Rate	Mnth21	Decrease		0.040		0.020
Clearing Member Rate	Mnth22	Decrease		0.040		0.020
Clearing Member Rate	Mnth23	Decrease		0.040		0.020
Clearing Member Rate	Mnth24	Decrease		0.040		0.020
Clearing Member Rate	Mnth25	Decrease		0.040		0.020
Clearing Member Rate	Mnth26	Decrease		0.040		0.020
Clearing Member Rate	Mnth27	Decrease		0.040		0.020
Clearing Member Rate	Mnth28	Decrease		0.040		0.020
Clearing Member Rate	Mnth29	Decrease		0.040		0.020
Clearing Member Rate	Mnth30	Decrease		0.040		0.020
Clearing Member Rate	Mnth31	Decrease		0.040		0.020
Clearing Member Rate	Mnth32	Decrease		0.040		0.020
Clearing Member Rate	Mnth33	Decrease		0.040		0.020
Clearing Member Rate	Mnth34	Decrease		0.040		0.020

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Tier Description	Change	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Volatility Scan (volScan) Rate</b>						
Clearing Member Rate	Mnth35	Decrease		0.040		0.020
Clearing Member Rate	Mnth36	Decrease		0.040		0.020
Clearing Member Rate	Mnth37	Decrease		0.040		0.020
Clearing Member Rate	Mnth38	Decrease		0.040		0.020
Clearing Member Rate	Mnth39+	Decrease		0.040		0.020
<b>COPPER FUTURES (HG, HGT, HX, HXW, QC) - volScan</b>						
Clearing Member Rate	Mnth1	Decrease		0.060		0.050
Clearing Member Rate	Mnth2	Decrease		0.060		0.040
Clearing Member Rate	Mnth3	Decrease		0.060		0.040
Clearing Member Rate	Mnth4	Decrease		0.060		0.040
Clearing Member Rate	Mnth5	Decrease		0.040		0.030
Clearing Member Rate	Mnth6	Decrease		0.040		0.030
Clearing Member Rate	Mnth7	Decrease		0.040		0.030
Clearing Member Rate	Mnth8	Decrease		0.040		0.020
Clearing Member Rate	Mnth9	Decrease		0.040		0.020
Clearing Member Rate	Mnth10	Decrease		0.040		0.020
Clearing Member Rate	Mnth11	Decrease		0.040		0.020
Clearing Member Rate	Mnth12	Decrease		0.040		0.020
Clearing Member Rate	Mnth13	Decrease		0.040		0.020
Clearing Member Rate	Mnth14	Decrease		0.040		0.020
Clearing Member Rate	Mnth15	Decrease		0.040		0.020
Clearing Member Rate	Mnth16	Decrease		0.040		0.020
Clearing Member Rate	Mnth17	Decrease		0.040		0.020
Clearing Member Rate	Mnth18	Decrease		0.040		0.020
Clearing Member Rate	Mnth19	Decrease		0.040		0.020
Clearing Member Rate	Mnth20	Decrease		0.040		0.020
Clearing Member Rate	Mnth21	Decrease		0.040		0.020
Clearing Member Rate	Mnth22	Decrease		0.040		0.020
Clearing Member Rate	Mnth23	Decrease		0.040		0.020
Clearing Member Rate	Mnth24	Decrease		0.040		0.020
Clearing Member Rate	Mnth25	Decrease		0.040		0.020
Clearing Member Rate	Mnth26	Decrease		0.040		0.020
Clearing Member Rate	Mnth27	Decrease		0.040		0.020
Clearing Member Rate	Mnth28	Decrease		0.040		0.020
Clearing Member Rate	Mnth29	Decrease		0.040		0.020
Clearing Member Rate	Mnth30	Decrease		0.040		0.020
Clearing Member Rate	Mnth31	Decrease		0.040		0.020
Clearing Member Rate	Mnth32	Decrease		0.040		0.020
Clearing Member Rate	Mnth33	Decrease		0.040		0.020
Clearing Member Rate	Mnth34	Decrease		0.040		0.020
Clearing Member Rate	Mnth35	Decrease		0.040		0.020
Clearing Member Rate	Mnth36	Decrease		0.040		0.020

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	<u>Tier Description</u>	Change	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Volatility Scan (volScan) Rate</b>						
Clearing Member Rate	Mnth37	Decrease		0.040		0.020
Clearing Member Rate	Mnth38	Decrease		0.040		0.020
Clearing Member Rate	Mnth39+	Decrease		0.040		0.020
<b>PLATINUM FUTURES (PL, PO, PQ, QR) - volScan</b>						
Clearing Member Rate	Mths 1	Decrease		0.060		0.050
Clearing Member Rate	Mths 2+	Decrease		0.030		0.020
<b>SILVER FUTURES (6Q, QI, SI, SIL, SIT, SO, SOW) - volScan</b>						
Clearing Member Rate	Mnths 1-4	Decrease		0.080		0.070
Clearing Member Rate	Mnths 5-6	Decrease		0.050		0.040
Clearing Member Rate	Mnths 7-12	Decrease		0.040		0.030
Clearing Member Rate	Mnths 13+	Decrease		0.030		0.020

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Tier Description	Change	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Volatility Scan (volScan) Rate</b>						
<b>NATURAL GAS - Volatility Scan (volScan) Rate</b>						
<b>HENRY HUB NATURAL GAS FUTURES (HHQ, KD, LN, LNW, MNG, NG, NGT, ON, ONW, U01, U02, U03, U04, U05, U06, U07, U08, U09, U10, U11, U12, U13, U14, U15, U16, U17, U18, U19, U20, U21, U22, U23, U24, U25, U26, U27, U28, U29, U30, U31) - volScan</b>						
Clearing Member Rate	Mth 1	Decrease		0.130		0.100
Clearing Member Rate	Mth 2	Decrease		0.070		0.050
Clearing Member Rate	Summer 2015	Decrease		0.050		0.030
<b>HENRY HUB NATURAL GAS PENULTIMATE FINANCIAL FUTURES (E7, HH, HP, NP, QG) - volScan</b>						
Clearing Member Rate	Mth 2	Decrease		0.070		0.050
Clearing Member Rate	Mth 1	Decrease		0.130		0.100
Clearing Member Rate	Summer 2015	Decrease		0.050		0.030
<b>NATURAL GAS COMBO ON CALENDAR STRIP (6J, 8P) - volScan</b>						
Clearing Member Rate		Decrease		0.060		0.030
<b>NORTHERN ROCKIES PIPE SWAP (XR, ZR) - volScan</b>						
Clearing Member Rate	Mnth 1-1	Decrease		0.150		0.120
Clearing Member Rate	Mnth 2-2	Decrease		0.080		0.060
Clearing Member Rate	Mnths 3+	Decrease		0.040		0.030
<b>NYMEX NATURAL GAS (H.HUB LTD) FUT (E7, HH, HHT, NN, NNT) - volScan</b>						
Clearing Member Rate	Mth 1	Decrease		0.130		0.100
Clearing Member Rate	Mth 2	Decrease		0.070		0.050
Clearing Member Rate	Summer 2015	Decrease		0.050		0.030
<b>PG&amp;E CITYGATE NATURAL GAS (PLATTS IFERC) FIXED PRICE FUTURES (CW, XQ) - volScan</b>						
Clearing Member Rate	Mnth 1-1	Decrease		0.120		0.100
Clearing Member Rate	Mnth 2-2	Decrease		0.080		0.060
Clearing Member Rate	Mnths 3+	Decrease		0.040		0.025
<b>SAN JUAN PIPE SWAP (PJ, XX) - volScan</b>						
Clearing Member Rate	Mnth 1-1	Decrease		0.150		0.100
Clearing Member Rate	Mnth 2-2	Decrease		0.100		0.070
Clearing Member Rate	Mnths 3+	Decrease		0.050		0.030
<b>SOCAL PIPE SWAP (XN, ZN) - volScan</b>						
Clearing Member Rate	Mnth 1	Decrease		0.200		0.150
Clearing Member Rate	Mnth 2	Decrease		0.130		0.080
Clearing Member Rate	Mnths 3-6	Decrease		0.060		0.040
Clearing Member Rate	Mnths 7-12	Decrease		0.040		0.035
<b>NGL/PETROCHEMICALS - Volatility Scan (volScan) Rate</b>						
<b>MONT BELVIEU ETHANE 5 DECIMALS (OPIS) SWAP FUTURES (4I, 4J, C0, F1, W8) - volScan</b>						
Clearing Member Rate	Mnths 4+	Decrease		0.050		0.040
<b>MONT BELVIEU LDH PROPANE 5 DECIMALS (OPIS) SWAP FUTURES (4H, 4K, 81, B0, G1, PT) - volScan</b>						
Clearing Member Rate	Mth 4+	Decrease		0.040		0.035

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Tier Description	Change	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Volatility Scan (volScan) Rate</b>						
<b>PETROLEUM CRACKS AND SPREADS - Volatility Scan (volScan) Rate</b>						
<b>3.5% FUEL OIL BARGES FOB RDAM VS. 3.5% FOB MED SPREAD (PLATTS) SWAP FUTURES (FK) - volScan</b>						
Clearing Member Rate	Mnths 12+	New				0.025
<b>REFINED PRODUCTS - Volatility Scan (volScan) Rate</b>						
<b>HEATING OIL CALENDAR SWAP FUTURES (AT, MP, QH) - volScan</b>						
Clearing Member Rate	Mnth1	Decrease		0.090		0.080
Clearing Member Rate	Mnth2	Decrease		0.050		0.040
<b>HEATING OIL FINANCIAL FUTURES (BH, QH) - volScan</b>						
Clearing Member Rate	Mnth1	Decrease		0.090		0.080
Clearing Member Rate	Mnth2	Decrease		0.050		0.040
<b>HEATING OIL LAST DAY FINANCIAL FUTURES (23, S23) - volScan</b>						
Clearing Member Rate	Mnth1	Decrease		0.090		0.080
Clearing Member Rate	Mnth2	Decrease		0.050		0.040
<b>NEW YORK HARBOR NO. 2 HEATING OIL FUTURES (HO, HO3, HO4, HOL, HOP, HOS, HOT, LB, OH) - volScan</b>						
Clearing Member Rate	Mnth1	Decrease		0.090		0.080
Clearing Member Rate	Mnth2	Decrease		0.050		0.040
<b>SINGAPORE FUEL OIL 380 CST (PLATTS) SWAP FUTURES (8H, MTS, SE) - volScan</b>						
Clearing Member Rate	Mnth 1	Increase		0.050		0.070
Clearing Member Rate	Mnths 2-6	Increase		0.030		0.040
Clearing Member Rate	Mnths 7+	Increase		0.020		0.030