



13-182

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

FROM: CME Clearing

SUBJECT: Performance Bond Requirements

DATE: Monday, April 15, 2013

***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

**Tuesday, April 16, 2013.**

Current rates as of:

**Monday, April 15, 2013.**

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

#### FX - Outright Rates

##### AD/JY FUTURES (AJ)

AJ	Spec		Increase	JPY	440,000	400,000	660,000	600,000
AJ	Hedge/Member		Increase	JPY	400,000	400,000	600,000	600,000

#### METALS - Outright Rates

##### 10 TROY OZ GOLD FUTURES (MGC)

MGC	Spec	Mths 1-4	Increase	USD	594	540	704	640
MGC	Hedge/Member	Mths 1-4	Increase	USD	540	540	640	640
MGC	Spec	Mths 5-6	Increase	USD	594	540	704	640
MGC	Hedge/Member	Mths 5-6	Increase	USD	540	540	640	640
MGC	Spec	Mths 7-12	Increase	USD	594	540	704	640
MGC	Hedge/Member	Mths 7-12	Increase	USD	540	540	640	640
MGC	Spec	Mths 13+	Increase	USD	594	540	704	640
MGC	Hedge/Member	Mths 13+	Increase	USD	540	540	640	640

##### COMEX 100 GOLD FUTURES (GC)

GC	Spec	Mths 1-4	Increase	USD	5,940	5,400	7,040	6,400
GC	Hedge/Member	Mths 1-4	Increase	USD	5,400	5,400	6,400	6,400
GC	Spec	Mths 5-6	Increase	USD	5,940	5,400	7,040	6,400
GC	Hedge/Member	Mths 5-6	Increase	USD	5,400	5,400	6,400	6,400
GC	Spec	Mths 7-12	Increase	USD	5,940	5,400	7,040	6,400
GC	Hedge/Member	Mths 7-12	Increase	USD	5,400	5,400	6,400	6,400
GC	Spec	Mths 13+	Increase	USD	5,940	5,400	7,040	6,400
GC	Hedge/Member	Mths 13+	Increase	USD	5,400	5,400	6,400	6,400

##### COMEX 100 GOLD TRADE AT SETTLEMENT (GCT)

GCT	Spec	Mths 1-4	Increase	USD	5,940	5,400	7,040	6,400
GCT	Hedge/Member	Mths 1-4	Increase	USD	5,400	5,400	6,400	6,400
GCT	Spec	Mths 5-6	Increase	USD	5,940	5,400	7,040	6,400

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Outright Rates</b>								
GCT	Hedge/Member	Mths 5-6	Increase	USD	5,400	5,400	6,400	6,400
GCT	Spec	Mths 7-12	Increase	USD	5,940	5,400	7,040	6,400
GCT	Hedge/Member	Mths 7-12	Increase	USD	5,400	5,400	6,400	6,400
GCT	Spec	Mths 13+	Increase	USD	5,940	5,400	7,040	6,400
GCT	Hedge/Member	Mths 13+	Increase	USD	5,400	5,400	6,400	6,400
<b>COMEX 5000 SILVER FUTURES (SI)</b>								
SI	Spec	Mths 1-4	Increase	USD	10,450	9,500	12,375	11,250
SI	Hedge/Member	Mths 1-4	Increase	USD	9,500	9,500	11,250	11,250
SI	Spec	Mths 5-6	Increase	USD	10,450	9,500	12,375	11,250
SI	Hedge/Member	Mths 5-6	Increase	USD	9,500	9,500	11,250	11,250
SI	Spec	Mths 7-12	Increase	USD	10,450	9,500	12,375	11,250
SI	Hedge/Member	Mths 7-12	Increase	USD	9,500	9,500	11,250	11,250
SI	Spec	Mths 13+	Increase	USD	10,450	9,500	12,375	11,250
SI	Hedge/Member	Mths 13+	Increase	USD	9,500	9,500	11,250	11,250
<b>COMEX 5000 SILVER TRADE AT SETTLE (SIT)</b>								
SIT	Spec	Mths 1-4	Increase	USD	10,450	9,500	12,375	11,250
SIT	Hedge/Member	Mths 1-4	Increase	USD	9,500	9,500	11,250	11,250
SIT	Spec	Mths 5-6	Increase	USD	10,450	9,500	12,375	11,250
SIT	Hedge/Member	Mths 5-6	Increase	USD	9,500	9,500	11,250	11,250
SIT	Spec	Mths 7-12	Increase	USD	10,450	9,500	12,375	11,250
SIT	Hedge/Member	Mths 7-12	Increase	USD	9,500	9,500	11,250	11,250
SIT	Spec	Mths 13+	Increase	USD	10,450	9,500	12,375	11,250
SIT	Hedge/Member	Mths 13+	Increase	USD	9,500	9,500	11,250	11,250
<b>COMEX MINY GOLD FUTURES (QO)</b>								
QO	Spec	Mths 1-4	Increase	USD	2,970	2,700	3,520	3,200
QO	Hedge/Member	Mths 1-4	Increase	USD	2,700	2,700	3,200	3,200
QO	Spec	Mths 5-6	Increase	USD	2,970	2,700	3,520	3,200
QO	Hedge/Member	Mths 5-6	Increase	USD	2,700	2,700	3,200	3,200
QO	Spec	Mths 7-12	Increase	USD	2,970	2,700	3,520	3,200
QO	Hedge/Member	Mths 7-12	Increase	USD	2,700	2,700	3,200	3,200
QO	Spec	Mths 13+	Increase	USD	2,970	2,700	3,520	3,200
QO	Hedge/Member	Mths 13+	Increase	USD	2,700	2,700	3,200	3,200

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Outright Rates</b>								
<b>COMEX MINY SILVER FUTURES (QI)</b>								
QI	Spec	Mths 1-4	Increase	USD	5,225	4,750	6,188	5,625
QI	Hedge/Member	Mths 1-4	Increase	USD	4,750	4,750	5,625	5,625
QI	Spec	Mths 5-6	Increase	USD	5,225	4,750	6,188	5,625
QI	Hedge/Member	Mths 5-6	Increase	USD	4,750	4,750	5,625	5,625
QI	Spec	Mths 7-12	Increase	USD	5,225	4,750	6,188	5,625
QI	Hedge/Member	Mths 7-12	Increase	USD	4,750	4,750	5,625	5,625
QI	Spec	Mths 13+	Increase	USD	5,225	4,750	6,188	5,625
QI	Hedge/Member	Mths 13+	Increase	USD	4,750	4,750	5,625	5,625
<b>E-MINI SILVER FUTURES (6Q)</b>								
6Q	Spec	Mths 1-4	Increase	USD	2,090	1,900	2,475	2,250
6Q	Hedge/Member	Mths 1-4	Increase	USD	1,900	1,900	2,250	2,250
6Q	Spec	Mths 5-6	Increase	USD	2,090	1,900	2,475	2,250
6Q	Hedge/Member	Mths 5-6	Increase	USD	1,900	1,900	2,250	2,250
6Q	Spec	Mths 7-12	Increase	USD	2,090	1,900	2,475	2,250
6Q	Hedge/Member	Mths 7-12	Increase	USD	1,900	1,900	2,250	2,250
6Q	Spec	Mths 13+	Increase	USD	2,090	1,900	2,475	2,250
6Q	Hedge/Member	Mths 13+	Increase	USD	1,900	1,900	2,250	2,250
<b>PALLADIUM FUTURES NYMEX (PA)</b>								
PA	Spec	Mnth 1	Increase	USD	3,850	3,500	4,400	4,000
PA	Hedge/Member	Mnth 1	Increase	USD	3,500	3,500	4,000	4,000
PA	Spec	Mnth 2+	Increase	USD	3,850	3,500	4,400	4,000
PA	Hedge/Member	Mnth 2+	Increase	USD	3,500	3,500	4,000	4,000
<b>PLATINUM FUTURES NYMEX (PL)</b>								
PL	Spec	Mths 1	Increase	USD	2,585	2,350	3,080	2,800
PL	Hedge/Member	Mths 1	Increase	USD	2,350	2,350	2,800	2,800
PL	Spec	Mths 2+	Increase	USD	2,585	2,350	3,080	2,800
PL	Hedge/Member	Mths 2+	Increase	USD	2,350	2,350	2,800	2,800

## 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>E-MINI NATURAL GAS FUTURES (QG)</b>								
QG	Spec	Summer 2013	Increase	USD	495	450	523	475
QG	Hedge/Member	Summer 2013	Increase	USD	450	450	475	475
QG	Spec	Winter 2014	Increase	USD	440	400	495	450
QG	Hedge/Member	Winter 2014	Increase	USD	400	400	450	450
<b>HENRY HUB FUT (NN)</b>								
NN	Spec	Summer 2013	Increase	USD	495	450	523	475
NN	Hedge/Member	Summer 2013	Increase	USD	450	450	475	475
NN	Spec	Winter 2014	Increase	USD	440	400	495	450
NN	Hedge/Member	Winter 2014	Increase	USD	400	400	450	450
<b>HENRY HUB FUT TRADE AT SETTLEMENT (NNT)</b>								
NNT	Spec	Summer 2013	Increase	USD	495	450	523	475
NNT	Hedge/Member	Summer 2013	Increase	USD	450	450	475	475
NNT	Spec	Winter 2014	Increase	USD	440	400	495	450
NNT	Hedge/Member	Winter 2014	Increase	USD	400	400	450	450
<b>HENRY HUB NAT GAS LAST DAY DELV (MNG)</b>								
MNG	Spec	Summer 2013	Increase	USD	495	450	523	475
MNG	Hedge/Member	Summer 2013	Increase	USD	450	450	475	475
MNG	Spec	Winter 2014	Increase	USD	440	400	495	450
MNG	Hedge/Member	Winter 2014	Increase	USD	400	400	450	450
<b>HENRY HUB PENULTIMATE (NP)</b>								
NP	Spec	Summer 2013	Increase	USD	495	450	523	475
NP	Hedge/Member	Summer 2013	Increase	USD	450	450	475	475
NP	Spec	Winter 2014	Increase	USD	440	400	495	450
NP	Hedge/Member	Winter 2014	Increase	USD	400	400	450	450
<b>NATURAL GAS HENRY HUB FUTURE (NG)</b>								
NG	Spec	Summer 2013	Increase	USD	1,980	1,800	2,090	1,900
NG	Hedge/Member	Summer 2013	Increase	USD	1,800	1,800	1,900	1,900
NG	Spec	Winter 2014	Increase	USD	1,760	1,600	1,980	1,800
NG	Hedge/Member	Winter 2014	Increase	USD	1,600	1,600	1,800	1,800
<b>NATURAL GAS TRADE AT SETTLEMENT (NGT)</b>								
NGT	Spec	Summer 2013	Increase	USD	1,980	1,800	2,090	1,900
NGT	Hedge/Member	Summer 2013	Increase	USD	1,800	1,800	1,900	1,900
NGT	Spec	Winter 2014	Increase	USD	1,760	1,600	1,980	1,800
NGT	Hedge/Member	Winter 2014	Increase	USD	1,600	1,600	1,800	1,800

## 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

#### **NYMEX NATURAL GAS (H.HUB LTD) FUT (HH)**

HH	Spec	Summer 2013	Increase	USD	1,980	1,800	2,090	1,900
HH	Hedge/Member	Summer 2013	Increase	USD	1,800	1,800	1,900	1,900
HH	Spec	Winter 2014	Increase	USD	1,760	1,600	1,980	1,800
HH	Hedge/Member	Winter 2014	Increase	USD	1,600	1,600	1,800	1,800

#### **NYMEX NATURAL GAS FUTURES (HP)**

HP	Spec	Summer 2013	Increase	USD	1,980	1,800	2,090	1,900
HP	Hedge/Member	Summer 2013	Increase	USD	1,800	1,800	1,900	1,900
HP	Spec	Winter 2014	Increase	USD	1,760	1,600	1,980	1,800
HP	Hedge/Member	Winter 2014	Increase	USD	1,600	1,600	1,800	1,800

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

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

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Intra Spreads</b>								
<b>NATURAL GAS - Intra Spreads</b>								
<b>Henry Hub Natural Gas (HH, NG, NN, HP) - 1 Month Butterfly Month 10-12 (HENRY HUB FUT TRADE AT SETTLEMENT)</b>								
NNT	Spec		Increase	USD	41	38	69	63
NNT	Hedge/Member		Increase	USD	38	38	63	63
<b>Henry Hub Natural Gas (HH, NG, NN, HP) - 1 Month Butterfly Month 10-12 (HENRY HUB FUT)</b>								
NN	Spec		Increase	USD	41	38	69	63
NN	Hedge/Member		Increase	USD	38	38	63	63
<b>Henry Hub Natural Gas (HH, NG, NN, HP) - 1 Month Butterfly Month 10-12 (NYMEX NATURAL GAS (H.HUB LTD) FUT)</b>								
HH	Spec		Increase	USD	165	150	275	250
HH	Hedge/Member		Increase	USD	150	150	250	250
<b>Henry Hub Natural Gas (HH, NG, NN, HP) - 1 Month Butterfly Month 11-13 (HENRY HUB FUT TRADE AT SETTLEMENT)</b>								
NNT	Spec		Increase	USD	41	38	69	63
NNT	Hedge/Member		Increase	USD	38	38	63	63
<b>Henry Hub Natural Gas (HH, NG, NN, HP) - 1 Month Butterfly Month 11-13 (HENRY HUB FUT)</b>								
NN	Spec		Increase	USD	41	38	69	63
NN	Hedge/Member		Increase	USD	38	38	63	63
<b>Henry Hub Natural Gas (HH, NG, NN, HP) - 1 Month Butterfly Month 11-13 (NYMEX NATURAL GAS (H.HUB LTD) FUT)</b>								
HH	Spec		Increase	USD	165	150	275	250
HH	Hedge/Member		Increase	USD	150	150	250	250
<b>Henry Hub Natural Gas (HH, NG, NN, HP) - 1 Month Butterfly Month 12-14 (HENRY HUB FUT TRADE AT SETTLEMENT)</b>								
NNT	Spec		Increase	USD	41	38	69	63
NNT	Hedge/Member		Increase	USD	38	38	63	63
<b>Henry Hub Natural Gas (HH, NG, NN, HP) - 1 Month Butterfly Month 12-14 (HENRY HUB FUT)</b>								
NN	Spec		Increase	USD	41	38	69	63
NN	Hedge/Member		Increase	USD	38	38	63	63
<b>Henry Hub Natural Gas (HH, NG, NN, HP) - 1 Month Butterfly Month 12-14 (NYMEX NATURAL GAS (H.HUB LTD) FUT)</b>								
HH	Spec		Increase	USD	165	150	275	250
HH	Hedge/Member		Increase	USD	150	150	250	250
<b>Henry Hub Natural Gas (HH, NG, NN, HP) - 1 Month Butterfly Month 13-15 (HENRY HUB FUT TRADE AT SETTLEMENT)</b>								
NNT	Spec		Increase	USD	41	38	69	63
NNT	Hedge/Member		Increase	USD	38	38	63	63
<b>Henry Hub Natural Gas (HH, NG, NN, HP) - 1 Month Butterfly Month 13-15 (HENRY HUB FUT)</b>								
NN	Spec		Increase	USD	41	38	69	63
NN	Hedge/Member		Increase	USD	38	38	63	63



## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Intra Spreads</b>								
<b>Henry Hub Natural Gas (HH, NG, NN, HP) - 1 Month Butterfly Month 13-15 (NYMEX NATURAL GAS (H.HUB LTD) FUT)</b>								
HH	Spec		Increase	USD	165	150	275	250
HH	Hedge/Member		Increase	USD	150	150	250	250
<b>Henry Hub Natural Gas (HH, NG, NN, HP) - 1 Month Butterfly Month 14-16 (HENRY HUB FUT TRADE AT SETTLEMENT)</b>								
NNT	Spec		Increase	USD	41	38	69	63
NNT	Hedge/Member		Increase	USD	38	38	63	63
<b>Henry Hub Natural Gas (HH, NG, NN, HP) - 1 Month Butterfly Month 14-16 (HENRY HUB FUT)</b>								
NN	Spec		Increase	USD	41	38	69	63
NN	Hedge/Member		Increase	USD	38	38	63	63
<b>Henry Hub Natural Gas (HH, NG, NN, HP) - 1 Month Butterfly Month 14-16 (NYMEX NATURAL GAS (H.HUB LTD) FUT)</b>								
HH	Spec		Increase	USD	165	150	275	250
HH	Hedge/Member		Increase	USD	150	150	250	250
<b>Henry Hub Natural Gas (HH, NG, NN, HP) - 1 Month Butterfly Month 15-17 (HENRY HUB FUT TRADE AT SETTLEMENT)</b>								
NNT	Spec		Increase	USD	41	38	69	63
NNT	Hedge/Member		Increase	USD	38	38	63	63
<b>Henry Hub Natural Gas (HH, NG, NN, HP) - 1 Month Butterfly Month 15-17 (HENRY HUB FUT)</b>								
NN	Spec		Increase	USD	41	38	69	63
NN	Hedge/Member		Increase	USD	38	38	63	63
<b>Henry Hub Natural Gas (HH, NG, NN, HP) - 1 Month Butterfly Month 15-17 (NYMEX NATURAL GAS (H.HUB LTD) FUT)</b>								
HH	Spec		Increase	USD	165	150	275	250
HH	Hedge/Member		Increase	USD	150	150	250	250
<b>Henry Hub Natural Gas (HH, NG, NN, HP) - 1 Month Butterfly Month 16-18 (HENRY HUB FUT TRADE AT SETTLEMENT)</b>								
NNT	Spec		Increase	USD	41	38	69	63
NNT	Hedge/Member		Increase	USD	38	38	63	63
<b>Henry Hub Natural Gas (HH, NG, NN, HP) - 1 Month Butterfly Month 16-18 (HENRY HUB FUT)</b>								
NN	Spec		Increase	USD	41	38	69	63
NN	Hedge/Member		Increase	USD	38	38	63	63
<b>Henry Hub Natural Gas (HH, NG, NN, HP) - 1 Month Butterfly Month 16-18 (NYMEX NATURAL GAS (H.HUB LTD) FUT)</b>								
HH	Spec		Increase	USD	165	150	275	250
HH	Hedge/Member		Increase	USD	150	150	250	250
<b>Henry Hub Natural Gas (HH, NG, NN, HP) - 1 Month Butterfly Month 17-19 (HENRY HUB FUT TRADE AT SETTLEMENT)</b>								
NNT	Spec		Increase	USD	41	38	69	63
NNT	Hedge/Member		Increase	USD	38	38	63	63

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Intra Spreads</b>								
<b>Henry Hub Natural Gas (HH, NG, NN, HP) - 1 Month Butterfly Month 17-19 (HENRY HUB FUT)</b>								
NN	Spec		Increase	USD	41	38	69	63
NN	Hedge/Member		Increase	USD	38	38	63	63
<b>Henry Hub Natural Gas (HH, NG, NN, HP) - 1 Month Butterfly Month 17-19 (NYMEX NATURAL GAS (H.HUB LTD) FUT)</b>								
HH	Spec		Increase	USD	165	150	275	250
HH	Hedge/Member		Increase	USD	150	150	250	250
<b>Henry Hub Natural Gas (HH, NG, NN, HP) - 1 Month Butterfly Month 18-20 (HENRY HUB FUT TRADE AT SETTLEMENT)</b>								
NNT	Spec		Increase	USD	41	38	69	63
NNT	Hedge/Member		Increase	USD	38	38	63	63
<b>Henry Hub Natural Gas (HH, NG, NN, HP) - 1 Month Butterfly Month 18-20 (HENRY HUB FUT)</b>								
NN	Spec		Increase	USD	41	38	69	63
NN	Hedge/Member		Increase	USD	38	38	63	63
<b>Henry Hub Natural Gas (HH, NG, NN, HP) - 1 Month Butterfly Month 18-20 (NYMEX NATURAL GAS (H.HUB LTD) FUT)</b>								
HH	Spec		Increase	USD	165	150	275	250
HH	Hedge/Member		Increase	USD	150	150	250	250
<b>Henry Hub Natural Gas (HH, NG, NN, HP) - 1 Month Butterfly Month 19-21 (HENRY HUB FUT TRADE AT SETTLEMENT)</b>								
NNT	Spec		Increase	USD	41	38	69	63
NNT	Hedge/Member		Increase	USD	38	38	63	63
<b>Henry Hub Natural Gas (HH, NG, NN, HP) - 1 Month Butterfly Month 19-21 (HENRY HUB FUT)</b>								
NN	Spec		Increase	USD	41	38	69	63
NN	Hedge/Member		Increase	USD	38	38	63	63
<b>Henry Hub Natural Gas (HH, NG, NN, HP) - 1 Month Butterfly Month 19-21 (NYMEX NATURAL GAS (H.HUB LTD) FUT)</b>								
HH	Spec		Increase	USD	165	150	275	250
HH	Hedge/Member		Increase	USD	150	150	250	250
<b>Henry Hub Natural Gas (HH, NG, NN, HP) - 1 Month Butterfly Month 20-22 (HENRY HUB FUT TRADE AT SETTLEMENT)</b>								
NNT	Spec		Increase	USD	41	38	69	63
NNT	Hedge/Member		Increase	USD	38	38	63	63
<b>Henry Hub Natural Gas (HH, NG, NN, HP) - 1 Month Butterfly Month 20-22 (HENRY HUB FUT)</b>								
NN	Spec		Increase	USD	41	38	69	63
NN	Hedge/Member		Increase	USD	38	38	63	63
<b>Henry Hub Natural Gas (HH, NG, NN, HP) - 1 Month Butterfly Month 20-22 (NYMEX NATURAL GAS (H.HUB LTD) FUT)</b>								
HH	Spec		Increase	USD	165	150	275	250
HH	Hedge/Member		Increase	USD	150	150	250	250

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Intra Spreads</b>								
<b>Henry Hub Natural Gas (HH, NG, NN, HP) - 1 Month Butterfly Month 21-23 (HENRY HUB FUT TRADE AT SETTLEMENT)</b>								
NNT	Spec		Increase	USD	41	38	69	63
NNT	Hedge/Member		Increase	USD	38	38	63	63
<b>Henry Hub Natural Gas (HH, NG, NN, HP) - 1 Month Butterfly Month 21-23 (HENRY HUB FUT)</b>								
NN	Spec		Increase	USD	41	38	69	63
NN	Hedge/Member		Increase	USD	38	38	63	63
<b>Henry Hub Natural Gas (HH, NG, NN, HP) - 1 Month Butterfly Month 21-23 (NYMEX NATURAL GAS (H.HUB LTD) FUT)</b>								
HH	Spec		Increase	USD	165	150	275	250
HH	Hedge/Member		Increase	USD	150	150	250	250
<b>Henry Hub Natural Gas (HH, NG, NN, HP) - 1 Month Butterfly Month 22-24 (HENRY HUB FUT TRADE AT SETTLEMENT)</b>								
NNT	Spec		Increase	USD	41	38	69	63
NNT	Hedge/Member		Increase	USD	38	38	63	63
<b>Henry Hub Natural Gas (HH, NG, NN, HP) - 1 Month Butterfly Month 22-24 (HENRY HUB FUT)</b>								
NN	Spec		Increase	USD	41	38	69	63
NN	Hedge/Member		Increase	USD	38	38	63	63
<b>Henry Hub Natural Gas (HH, NG, NN, HP) - 1 Month Butterfly Month 22-24 (NYMEX NATURAL GAS (H.HUB LTD) FUT)</b>								
HH	Spec		Increase	USD	165	150	275	250
HH	Hedge/Member		Increase	USD	150	150	250	250
<b>Henry Hub Natural Gas (HH, NG, NN, HP) - 1 Month Butterfly Month 23-25 (HENRY HUB FUT TRADE AT SETTLEMENT)</b>								
NNT	Spec		Increase	USD	41	38	69	63
NNT	Hedge/Member		Increase	USD	38	38	63	63
<b>Henry Hub Natural Gas (HH, NG, NN, HP) - 1 Month Butterfly Month 23-25 (HENRY HUB FUT)</b>								
NN	Spec		Increase	USD	41	38	69	63
NN	Hedge/Member		Increase	USD	38	38	63	63
<b>Henry Hub Natural Gas (HH, NG, NN, HP) - 1 Month Butterfly Month 23-25 (NYMEX NATURAL GAS (H.HUB LTD) FUT)</b>								
HH	Spec		Increase	USD	165	150	275	250
HH	Hedge/Member		Increase	USD	150	150	250	250
<b>Henry Hub Natural Gas (HH, NG, NN, HP) - 1 Month Butterfly Month 24-26 (HENRY HUB FUT TRADE AT SETTLEMENT)</b>								
NNT	Spec		Increase	USD	41	38	69	63
NNT	Hedge/Member		Increase	USD	38	38	63	63
<b>Henry Hub Natural Gas (HH, NG, NN, HP) - 1 Month Butterfly Month 24-26 (HENRY HUB FUT)</b>								
NN	Spec		Increase	USD	41	38	69	63
NN	Hedge/Member		Increase	USD	38	38	63	63

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Intra Spreads</b>								
<b>Henry Hub Natural Gas (HH, NG, NN, HP) - 1 Month Butterfly Month 24-26 (NYMEX NATURAL GAS (H.HUB LTD) FUT)</b>								
HH	Spec		Increase	USD	165	150	275	250
HH	Hedge/Member		Increase	USD	150	150	250	250
<b>Henry Hub Natural Gas (HH, NG, NN, HP) - 1 Month Butterfly Month 3-5 (HENRY HUB FUT TRADE AT SETTLEMENT)</b>								
NNT	Spec		Increase	USD	55	50	69	63
NNT	Hedge/Member		Increase	USD	50	50	63	63
<b>Henry Hub Natural Gas (HH, NG, NN, HP) - 1 Month Butterfly Month 3-5 (HENRY HUB FUT)</b>								
NN	Spec		Increase	USD	55	50	69	63
NN	Hedge/Member		Increase	USD	50	50	63	63
<b>Henry Hub Natural Gas (HH, NG, NN, HP) - 1 Month Butterfly Month 3-5 (NYMEX NATURAL GAS (H.HUB LTD) FUT)</b>								
HH	Spec		Increase	USD	220	200	275	250
HH	Hedge/Member		Increase	USD	200	200	250	250
<b>Henry Hub Natural Gas (HH, NG, NN, HP) - 1 Month Butterfly Month 4-6 (HENRY HUB FUT TRADE AT SETTLEMENT)</b>								
NNT	Spec		Increase	USD	55	50	69	63
NNT	Hedge/Member		Increase	USD	50	50	63	63
<b>Henry Hub Natural Gas (HH, NG, NN, HP) - 1 Month Butterfly Month 4-6 (HENRY HUB FUT)</b>								
NN	Spec		Increase	USD	55	50	69	63
NN	Hedge/Member		Increase	USD	50	50	63	63
<b>Henry Hub Natural Gas (HH, NG, NN, HP) - 1 Month Butterfly Month 4-6 (NYMEX NATURAL GAS (H.HUB LTD) FUT)</b>								
HH	Spec		Increase	USD	220	200	275	250
HH	Hedge/Member		Increase	USD	200	200	250	250
<b>Henry Hub Natural Gas (HH, NG, NN, HP) - 1 Month Butterfly Month 5-7 (HENRY HUB FUT TRADE AT SETTLEMENT)</b>								
NNT	Spec		Increase	USD	55	50	69	63
NNT	Hedge/Member		Increase	USD	50	50	63	63
<b>Henry Hub Natural Gas (HH, NG, NN, HP) - 1 Month Butterfly Month 5-7 (HENRY HUB FUT)</b>								
NN	Spec		Increase	USD	55	50	69	63
NN	Hedge/Member		Increase	USD	50	50	63	63
<b>Henry Hub Natural Gas (HH, NG, NN, HP) - 1 Month Butterfly Month 5-7 (NYMEX NATURAL GAS (H.HUB LTD) FUT)</b>								
HH	Spec		Increase	USD	220	200	275	250
HH	Hedge/Member		Increase	USD	200	200	250	250
<b>Henry Hub Natural Gas (HH, NG, NN, HP) - 1 Month Butterfly Month 6-8 (HENRY HUB FUT TRADE AT SETTLEMENT)</b>								
NNT	Spec		Increase	USD	41	38	69	63
NNT	Hedge/Member		Increase	USD	38	38	63	63

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Intra Spreads</b>								
<b>Henry Hub Natural Gas (HH, NG, NN, HP) - 1 Month Butterfly Month 6-8 (HENRY HUB FUT)</b>								
NN	Spec		Increase	USD	41	38	69	63
NN	Hedge/Member		Increase	USD	38	38	63	63
<b>Henry Hub Natural Gas (HH, NG, NN, HP) - 1 Month Butterfly Month 6-8 (NYMEX NATURAL GAS (H.HUB LTD) FUT)</b>								
HH	Spec		Increase	USD	165	150	275	250
HH	Hedge/Member		Increase	USD	150	150	250	250
<b>Henry Hub Natural Gas (HH, NG, NN, HP) - 1 Month Butterfly Month 7-9 (HENRY HUB FUT TRADE AT SETTLEMENT)</b>								
NNT	Spec		Increase	USD	41	38	69	63
NNT	Hedge/Member		Increase	USD	38	38	63	63
<b>Henry Hub Natural Gas (HH, NG, NN, HP) - 1 Month Butterfly Month 7-9 (HENRY HUB FUT)</b>								
NN	Spec		Increase	USD	41	38	69	63
NN	Hedge/Member		Increase	USD	38	38	63	63
<b>Henry Hub Natural Gas (HH, NG, NN, HP) - 1 Month Butterfly Month 7-9 (NYMEX NATURAL GAS (H.HUB LTD) FUT)</b>								
HH	Spec		Increase	USD	165	150	275	250
HH	Hedge/Member		Increase	USD	150	150	250	250
<b>Henry Hub Natural Gas (HH, NG, NN, HP) - 1 Month Butterfly Month 8-10 (HENRY HUB FUT TRADE AT SETTLEMENT)</b>								
NNT	Spec		Increase	USD	41	38	69	63
NNT	Hedge/Member		Increase	USD	38	38	63	63
<b>Henry Hub Natural Gas (HH, NG, NN, HP) - 1 Month Butterfly Month 8-10 (HENRY HUB FUT)</b>								
NN	Spec		Increase	USD	41	38	69	63
NN	Hedge/Member		Increase	USD	38	38	63	63
<b>Henry Hub Natural Gas (HH, NG, NN, HP) - 1 Month Butterfly Month 8-10 (NYMEX NATURAL GAS (H.HUB LTD) FUT)</b>								
HH	Spec		Increase	USD	165	150	275	250
HH	Hedge/Member		Increase	USD	150	150	250	250
<b>Henry Hub Natural Gas (HH, NG, NN, HP) - 1 Month Butterfly Month 9-11 (HENRY HUB FUT TRADE AT SETTLEMENT)</b>								
NNT	Spec		Increase	USD	41	38	69	63
NNT	Hedge/Member		Increase	USD	38	38	63	63
<b>Henry Hub Natural Gas (HH, NG, NN, HP) - 1 Month Butterfly Month 9-11 (HENRY HUB FUT)</b>								
NN	Spec		Increase	USD	41	38	69	63
NN	Hedge/Member		Increase	USD	38	38	63	63
<b>Henry Hub Natural Gas (HH, NG, NN, HP) - 1 Month Butterfly Month 9-11 (NYMEX NATURAL GAS (H.HUB LTD) FUT)</b>								
HH	Spec		Increase	USD	165	150	275	250
HH	Hedge/Member		Increase	USD	150	150	250	250

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Intra Spreads</b>								
<b>Henry Hub Natural Gas (HH, NG, NN, HP) - Tier 4 vs. Tier 5 (HENRY HUB FUT TRADE AT SETTLEMENT)</b>								
NNT	Spec		Increase	USD	83	75	124	113
NNT	Hedge/Member		Increase	USD	75	75	113	113
<b>Henry Hub Natural Gas (HH, NG, NN, HP) - Tier 4 vs. Tier 5 (HENRY HUB FUT)</b>								
NN	Spec		Increase	USD	83	75	124	113
NN	Hedge/Member		Increase	USD	75	75	113	113
<b>Henry Hub Natural Gas (HH, NG, NN, HP) - Tier 4 vs. Tier 5 (NYMEX NATURAL GAS (H.HUB LTD) FUT)</b>								
HH	Spec		Increase	USD	330	300	495	450
HH	Hedge/Member		Increase	USD	300	300	450	450
<b>Henry Hub Natural Gas (HH, NG, NN, HP) Consecutive Month Spread 5-6 (HENRY HUB FUT TRADE AT SETTLEMENT)</b>								
NNT	Spec		Increase	USD	55	50	69	63
NNT	Hedge/Member		Increase	USD	50	50	63	63
<b>Henry Hub Natural Gas (HH, NG, NN, HP) Consecutive Month Spread 5-6 (HENRY HUB FUT)</b>								
NN	Spec		Increase	USD	55	50	69	63
NN	Hedge/Member		Increase	USD	50	50	63	63
<b>Henry Hub Natural Gas (HH, NG, NN, HP) Consecutive Month Spread 5-6 (NYMEX NATURAL GAS (H.HUB LTD) FUT)</b>								
HH	Spec		Increase	USD	220	200	275	250
HH	Hedge/Member		Increase	USD	200	200	250	250
<b>Henry Hub Natural Gas (HH, NG, NN, HP) Consecutive Month Spread 6-7 (HENRY HUB FUT TRADE AT SETTLEMENT)</b>								
NNT	Spec		Increase	USD	55	50	69	63
NNT	Hedge/Member		Increase	USD	50	50	63	63
<b>Henry Hub Natural Gas (HH, NG, NN, HP) Consecutive Month Spread 6-7 (HENRY HUB FUT)</b>								
NN	Spec		Increase	USD	55	50	69	63
NN	Hedge/Member		Increase	USD	50	50	63	63
<b>Henry Hub Natural Gas (HH, NG, NN, HP) Consecutive Month Spread 6-7 (NYMEX NATURAL GAS (H.HUB LTD) FUT)</b>								
HH	Spec		Increase	USD	220	200	275	250
HH	Hedge/Member		Increase	USD	200	200	250	250
<b>Henry Hub Natural Gas (HH, NG, NN, HP) Consecutive Month Spread 7-8 (HENRY HUB FUT TRADE AT SETTLEMENT)</b>								
NNT	Spec		Increase	USD	55	50	69	63
NNT	Hedge/Member		Increase	USD	50	50	63	63
<b>Henry Hub Natural Gas (HH, NG, NN, HP) Consecutive Month Spread 7-8 (HENRY HUB FUT)</b>								
NN	Spec		Increase	USD	55	50	69	63
NN	Hedge/Member		Increase	USD	50	50	63	63

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Intra Spreads</b>								
<b>Henry Hub Natural Gas (HH, NG, NN, HP) Consecutive Month Spread 7-8 (NYMEX NATURAL GAS (H.HUB LTD) FUT)</b>								
HH	Spec		Increase	USD	220	200	275	250
HH	Hedge/Member		Increase	USD	200	200	250	250
<b>Henry Hub Natural Gas (HH, NG, NN, HP) Consecutive Month Spread 8-9 (HENRY HUB FUT TRADE AT SETTLEMENT)</b>								
NNT	Spec		Increase	USD	55	50	69	63
NNT	Hedge/Member		Increase	USD	50	50	63	63
<b>Henry Hub Natural Gas (HH, NG, NN, HP) Consecutive Month Spread 8-9 (HENRY HUB FUT)</b>								
NN	Spec		Increase	USD	55	50	69	63
NN	Hedge/Member		Increase	USD	50	50	63	63
<b>Henry Hub Natural Gas (HH, NG, NN, HP) Consecutive Month Spread 8-9 (NYMEX NATURAL GAS (H.HUB LTD) FUT)</b>								
HH	Spec		Increase	USD	220	200	275	250
HH	Hedge/Member		Increase	USD	200	200	250	250
<b>Henry Hub Natural Gas (HH, NG, NN, HP) Consecutive Months Spread 9+ (HENRY HUB FUT TRADE AT SETTLEMENT)</b>								
NNT	Spec		Increase	USD	41	38	69	63
NNT	Hedge/Member		Increase	USD	38	38	63	63
<b>Henry Hub Natural Gas (HH, NG, NN, HP) Consecutive Months Spread 9+ (HENRY HUB FUT)</b>								
NN	Spec		Increase	USD	41	38	69	63
NN	Hedge/Member		Increase	USD	38	38	63	63
<b>Henry Hub Natural Gas (HH, NG, NN, HP) Consecutive Months Spread 9+ (NYMEX NATURAL GAS (H.HUB LTD) FUT)</b>								
HH	Spec		Increase	USD	165	150	275	250
HH	Hedge/Member		Increase	USD	150	150	250	250
<b>Henry Hub Natural Gas (NG) - 1 Month Butterfly Month 10-12 (HENRY HUB NAT GAS LAST DAY DELV)</b>								
MNG	Spec		Increase	USD	41	38	69	63
MNG	Hedge/Member		Increase	USD	38	38	63	63
<b>Henry Hub Natural Gas (NG) - 1 Month Butterfly Month 10-12 (NATURAL GAS HENRY HUB FUTURE)</b>								
NG	Spec		Increase	USD	165	150	275	250
NG	Hedge/Member		Increase	USD	150	150	250	250
<b>Henry Hub Natural Gas (NG) - 1 Month Butterfly Month 10-12 (NATURAL GAS TRADE AT SETTLEMENT)</b>								
NGT	Spec		Increase	USD	165	150	275	250
NGT	Hedge/Member		Increase	USD	150	150	250	250
<b>Henry Hub Natural Gas (NG) - 1 Month Butterfly Month 11-13 (HENRY HUB NAT GAS LAST DAY DELV)</b>								
MNG	Spec		Increase	USD	41	38	69	63
MNG	Hedge/Member		Increase	USD	38	38	63	63

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Intra Spreads</b>								
<b>Henry Hub Natural Gas (NG) - 1 Month Butterfly Month 11-13 (NATURAL GAS HENRY HUB FUTURE)</b>								
NG	Spec		Increase	USD	165	150	275	250
NG	Hedge/Member		Increase	USD	150	150	250	250
<b>Henry Hub Natural Gas (NG) - 1 Month Butterfly Month 11-13 (NATURAL GAS TRADE AT SETTLEMENT)</b>								
NGT	Spec		Increase	USD	165	150	275	250
NGT	Hedge/Member		Increase	USD	150	150	250	250
<b>Henry Hub Natural Gas (NG) - 1 Month Butterfly Month 12-14 (HENRY HUB NAT GAS LAST DAY DELV)</b>								
MNG	Spec		Increase	USD	41	38	69	63
MNG	Hedge/Member		Increase	USD	38	38	63	63
<b>Henry Hub Natural Gas (NG) - 1 Month Butterfly Month 12-14 (NATURAL GAS HENRY HUB FUTURE)</b>								
NG	Spec		Increase	USD	165	150	275	250
NG	Hedge/Member		Increase	USD	150	150	250	250
<b>Henry Hub Natural Gas (NG) - 1 Month Butterfly Month 12-14 (NATURAL GAS TRADE AT SETTLEMENT)</b>								
NGT	Spec		Increase	USD	165	150	275	250
NGT	Hedge/Member		Increase	USD	150	150	250	250
<b>Henry Hub Natural Gas (NG) - 1 Month Butterfly Month 13-15 (HENRY HUB NAT GAS LAST DAY DELV)</b>								
MNG	Spec		Increase	USD	41	38	69	63
MNG	Hedge/Member		Increase	USD	38	38	63	63
<b>Henry Hub Natural Gas (NG) - 1 Month Butterfly Month 13-15 (NATURAL GAS HENRY HUB FUTURE)</b>								
NG	Spec		Increase	USD	165	150	275	250
NG	Hedge/Member		Increase	USD	150	150	250	250
<b>Henry Hub Natural Gas (NG) - 1 Month Butterfly Month 13-15 (NATURAL GAS TRADE AT SETTLEMENT)</b>								
NGT	Spec		Increase	USD	165	150	275	250
NGT	Hedge/Member		Increase	USD	150	150	250	250
<b>Henry Hub Natural Gas (NG) - 1 Month Butterfly Month 14-16 (HENRY HUB NAT GAS LAST DAY DELV)</b>								
MNG	Spec		Increase	USD	41	38	69	63
MNG	Hedge/Member		Increase	USD	38	38	63	63
<b>Henry Hub Natural Gas (NG) - 1 Month Butterfly Month 14-16 (NATURAL GAS HENRY HUB FUTURE)</b>								
NG	Spec		Increase	USD	165	150	275	250
NG	Hedge/Member		Increase	USD	150	150	250	250
<b>Henry Hub Natural Gas (NG) - 1 Month Butterfly Month 14-16 (NATURAL GAS TRADE AT SETTLEMENT)</b>								
NGT	Spec		Increase	USD	165	150	275	250
NGT	Hedge/Member		Increase	USD	150	150	250	250



## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Intra Spreads</b>								
<b>Henry Hub Natural Gas (NG) - 1 Month Butterfly Month 15-17 (HENRY HUB NAT GAS LAST DAY DELV)</b>								
MNG	Spec		Increase	USD	41	38	69	63
MNG	Hedge/Member		Increase	USD	38	38	63	63
<b>Henry Hub Natural Gas (NG) - 1 Month Butterfly Month 15-17 (NATURAL GAS HENRY HUB FUTURE)</b>								
NG	Spec		Increase	USD	165	150	275	250
NG	Hedge/Member		Increase	USD	150	150	250	250
<b>Henry Hub Natural Gas (NG) - 1 Month Butterfly Month 15-17 (NATURAL GAS TRADE AT SETTLEMENT)</b>								
NGT	Spec		Increase	USD	165	150	275	250
NGT	Hedge/Member		Increase	USD	150	150	250	250
<b>Henry Hub Natural Gas (NG) - 1 Month Butterfly Month 16-18 (HENRY HUB NAT GAS LAST DAY DELV)</b>								
MNG	Spec		Increase	USD	41	38	69	63
MNG	Hedge/Member		Increase	USD	38	38	63	63
<b>Henry Hub Natural Gas (NG) - 1 Month Butterfly Month 16-18 (NATURAL GAS HENRY HUB FUTURE)</b>								
NG	Spec		Increase	USD	165	150	275	250
NG	Hedge/Member		Increase	USD	150	150	250	250
<b>Henry Hub Natural Gas (NG) - 1 Month Butterfly Month 16-18 (NATURAL GAS TRADE AT SETTLEMENT)</b>								
NGT	Spec		Increase	USD	165	150	275	250
NGT	Hedge/Member		Increase	USD	150	150	250	250
<b>Henry Hub Natural Gas (NG) - 1 Month Butterfly Month 17-19 (HENRY HUB NAT GAS LAST DAY DELV)</b>								
MNG	Spec		Increase	USD	41	38	69	63
MNG	Hedge/Member		Increase	USD	38	38	63	63
<b>Henry Hub Natural Gas (NG) - 1 Month Butterfly Month 17-19 (NATURAL GAS HENRY HUB FUTURE)</b>								
NG	Spec		Increase	USD	165	150	275	250
NG	Hedge/Member		Increase	USD	150	150	250	250
<b>Henry Hub Natural Gas (NG) - 1 Month Butterfly Month 17-19 (NATURAL GAS TRADE AT SETTLEMENT)</b>								
NGT	Spec		Increase	USD	165	150	275	250
NGT	Hedge/Member		Increase	USD	150	150	250	250
<b>Henry Hub Natural Gas (NG) - 1 Month Butterfly Month 18-20 (HENRY HUB NAT GAS LAST DAY DELV)</b>								
MNG	Spec		Increase	USD	41	38	69	63
MNG	Hedge/Member		Increase	USD	38	38	63	63
<b>Henry Hub Natural Gas (NG) - 1 Month Butterfly Month 18-20 (NATURAL GAS HENRY HUB FUTURE)</b>								
NG	Spec		Increase	USD	165	150	275	250
NG	Hedge/Member		Increase	USD	150	150	250	250

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Intra Spreads</b>								
<b>Henry Hub Natural Gas (NG) - 1 Month Butterfly Month 18-20 (NATURAL GAS TRADE AT SETTLEMENT)</b>								
NGT	Spec		Increase	USD	165	150	275	250
NGT	Hedge/Member		Increase	USD	150	150	250	250
<b>Henry Hub Natural Gas (NG) - 1 Month Butterfly Month 19-21 (HENRY HUB NAT GAS LAST DAY DELV)</b>								
MNG	Spec		Increase	USD	41	38	69	63
MNG	Hedge/Member		Increase	USD	38	38	63	63
<b>Henry Hub Natural Gas (NG) - 1 Month Butterfly Month 19-21 (NATURAL GAS HENRY HUB FUTURE)</b>								
NG	Spec		Increase	USD	165	150	275	250
NG	Hedge/Member		Increase	USD	150	150	250	250
<b>Henry Hub Natural Gas (NG) - 1 Month Butterfly Month 19-21 (NATURAL GAS TRADE AT SETTLEMENT)</b>								
NGT	Spec		Increase	USD	165	150	275	250
NGT	Hedge/Member		Increase	USD	150	150	250	250
<b>Henry Hub Natural Gas (NG) - 1 Month Butterfly Month 20-22 (HENRY HUB NAT GAS LAST DAY DELV)</b>								
MNG	Spec		Increase	USD	41	38	69	63
MNG	Hedge/Member		Increase	USD	38	38	63	63
<b>Henry Hub Natural Gas (NG) - 1 Month Butterfly Month 20-22 (NATURAL GAS HENRY HUB FUTURE)</b>								
NG	Spec		Increase	USD	165	150	275	250
NG	Hedge/Member		Increase	USD	150	150	250	250
<b>Henry Hub Natural Gas (NG) - 1 Month Butterfly Month 20-22 (NATURAL GAS TRADE AT SETTLEMENT)</b>								
NGT	Spec		Increase	USD	165	150	275	250
NGT	Hedge/Member		Increase	USD	150	150	250	250
<b>Henry Hub Natural Gas (NG) - 1 Month Butterfly Month 21-23 (HENRY HUB NAT GAS LAST DAY DELV)</b>								
MNG	Spec		Increase	USD	41	38	69	63
MNG	Hedge/Member		Increase	USD	38	38	63	63
<b>Henry Hub Natural Gas (NG) - 1 Month Butterfly Month 21-23 (NATURAL GAS HENRY HUB FUTURE)</b>								
NG	Spec		Increase	USD	165	150	275	250
NG	Hedge/Member		Increase	USD	150	150	250	250
<b>Henry Hub Natural Gas (NG) - 1 Month Butterfly Month 21-23 (NATURAL GAS TRADE AT SETTLEMENT)</b>								
NGT	Spec		Increase	USD	165	150	275	250
NGT	Hedge/Member		Increase	USD	150	150	250	250
<b>Henry Hub Natural Gas (NG) - 1 Month Butterfly Month 22-24 (HENRY HUB NAT GAS LAST DAY DELV)</b>								
MNG	Spec		Increase	USD	41	38	69	63
MNG	Hedge/Member		Increase	USD	38	38	63	63

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Intra Spreads</b>								
<b>Henry Hub Natural Gas (NG) - 1 Month Butterfly Month 22-24 (NATURAL GAS HENRY HUB FUTURE)</b>								
NG	Spec		Increase	USD	165	150	275	250
NG	Hedge/Member		Increase	USD	150	150	250	250
<b>Henry Hub Natural Gas (NG) - 1 Month Butterfly Month 22-24 (NATURAL GAS TRADE AT SETTLEMENT)</b>								
NGT	Spec		Increase	USD	165	150	275	250
NGT	Hedge/Member		Increase	USD	150	150	250	250
<b>Henry Hub Natural Gas (NG) - 1 Month Butterfly Month 23-25 (HENRY HUB NAT GAS LAST DAY DELV)</b>								
MNG	Spec		Increase	USD	41	38	69	63
MNG	Hedge/Member		Increase	USD	38	38	63	63
<b>Henry Hub Natural Gas (NG) - 1 Month Butterfly Month 23-25 (NATURAL GAS HENRY HUB FUTURE)</b>								
NG	Spec		Increase	USD	165	150	275	250
NG	Hedge/Member		Increase	USD	150	150	250	250
<b>Henry Hub Natural Gas (NG) - 1 Month Butterfly Month 23-25 (NATURAL GAS TRADE AT SETTLEMENT)</b>								
NGT	Spec		Increase	USD	165	150	275	250
NGT	Hedge/Member		Increase	USD	150	150	250	250
<b>Henry Hub Natural Gas (NG) - 1 Month Butterfly Month 24-26 (HENRY HUB NAT GAS LAST DAY DELV)</b>								
MNG	Spec		Increase	USD	55	50	69	63
MNG	Hedge/Member		Increase	USD	50	50	63	63
<b>Henry Hub Natural Gas (NG) - 1 Month Butterfly Month 24-26 (NATURAL GAS HENRY HUB FUTURE)</b>								
NG	Spec		Increase	USD	220	200	275	250
NG	Hedge/Member		Increase	USD	200	200	250	250
<b>Henry Hub Natural Gas (NG) - 1 Month Butterfly Month 24-26 (NATURAL GAS TRADE AT SETTLEMENT)</b>								
NGT	Spec		Increase	USD	220	200	275	250
NGT	Hedge/Member		Increase	USD	200	200	250	250
<b>Henry Hub Natural Gas (NG) - 1 Month Butterfly Month 3-5 (HENRY HUB NAT GAS LAST DAY DELV)</b>								
MNG	Spec		Increase	USD	55	50	69	63
MNG	Hedge/Member		Increase	USD	50	50	63	63
<b>Henry Hub Natural Gas (NG) - 1 Month Butterfly Month 3-5 (NATURAL GAS HENRY HUB FUTURE)</b>								
NG	Spec		Increase	USD	220	200	275	250
NG	Hedge/Member		Increase	USD	200	200	250	250
<b>Henry Hub Natural Gas (NG) - 1 Month Butterfly Month 3-5 (NATURAL GAS TRADE AT SETTLEMENT)</b>								
NGT	Spec		Increase	USD	220	200	275	250
NGT	Hedge/Member		Increase	USD	200	200	250	250

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Intra Spreads</b>								
<b>Henry Hub Natural Gas (NG) - 1 Month Butterfly Month 4-6 (HENRY HUB NAT GAS LAST DAY DELV)</b>								
MNG	Spec		Increase	USD	55	50	69	63
MNG	Hedge/Member		Increase	USD	50	50	63	63
<b>Henry Hub Natural Gas (NG) - 1 Month Butterfly Month 4-6 (NATURAL GAS HENRY HUB FUTURE)</b>								
NG	Spec		Increase	USD	220	200	275	250
NG	Hedge/Member		Increase	USD	200	200	250	250
<b>Henry Hub Natural Gas (NG) - 1 Month Butterfly Month 4-6 (NATURAL GAS TRADE AT SETTLEMENT)</b>								
NGT	Spec		Increase	USD	220	200	275	250
NGT	Hedge/Member		Increase	USD	200	200	250	250
<b>Henry Hub Natural Gas (NG) - 1 Month Butterfly Month 5-7 (HENRY HUB NAT GAS LAST DAY DELV)</b>								
MNG	Spec		Increase	USD	55	50	69	63
MNG	Hedge/Member		Increase	USD	50	50	63	63
<b>Henry Hub Natural Gas (NG) - 1 Month Butterfly Month 5-7 (NATURAL GAS HENRY HUB FUTURE)</b>								
NG	Spec		Increase	USD	220	200	275	250
NG	Hedge/Member		Increase	USD	200	200	250	250
<b>Henry Hub Natural Gas (NG) - 1 Month Butterfly Month 5-7 (NATURAL GAS TRADE AT SETTLEMENT)</b>								
NGT	Spec		Increase	USD	220	200	275	250
NGT	Hedge/Member		Increase	USD	200	200	250	250
<b>Henry Hub Natural Gas (NG) - 1 Month Butterfly Month 6-8 (HENRY HUB NAT GAS LAST DAY DELV)</b>								
MNG	Spec		Increase	USD	41	38	69	63
MNG	Hedge/Member		Increase	USD	38	38	63	63
<b>Henry Hub Natural Gas (NG) - 1 Month Butterfly Month 6-8 (NATURAL GAS HENRY HUB FUTURE)</b>								
NG	Spec		Increase	USD	165	150	275	250
NG	Hedge/Member		Increase	USD	150	150	250	250
<b>Henry Hub Natural Gas (NG) - 1 Month Butterfly Month 6-8 (NATURAL GAS TRADE AT SETTLEMENT)</b>								
NGT	Spec		Increase	USD	165	150	275	250
NGT	Hedge/Member		Increase	USD	150	150	250	250
<b>Henry Hub Natural Gas (NG) - 1 Month Butterfly Month 7-9 (HENRY HUB NAT GAS LAST DAY DELV)</b>								
MNG	Spec		Increase	USD	41	38	69	63
MNG	Hedge/Member		Increase	USD	38	38	63	63
<b>Henry Hub Natural Gas (NG) - 1 Month Butterfly Month 7-9 (NATURAL GAS HENRY HUB FUTURE)</b>								
NG	Spec		Increase	USD	165	150	275	250
NG	Hedge/Member		Increase	USD	150	150	250	250

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Intra Spreads</b>								
<b>Henry Hub Natural Gas (NG) - 1 Month Butterfly Month 7-9 (NATURAL GAS TRADE AT SETTLEMENT)</b>								
NGT	Spec		Increase	USD	165	150	275	250
NGT	Hedge/Member		Increase	USD	150	150	250	250
<b>Henry Hub Natural Gas (NG) - 1 Month Butterfly Month 8-10 (HENRY HUB NAT GAS LAST DAY DELV)</b>								
MNG	Spec		Increase	USD	41	38	69	63
MNG	Hedge/Member		Increase	USD	38	38	63	63
<b>Henry Hub Natural Gas (NG) - 1 Month Butterfly Month 8-10 (NATURAL GAS HENRY HUB FUTURE)</b>								
NG	Spec		Increase	USD	165	150	275	250
NG	Hedge/Member		Increase	USD	150	150	250	250
<b>Henry Hub Natural Gas (NG) - 1 Month Butterfly Month 8-10 (NATURAL GAS TRADE AT SETTLEMENT)</b>								
NGT	Spec		Increase	USD	165	150	275	250
NGT	Hedge/Member		Increase	USD	150	150	250	250
<b>Henry Hub Natural Gas (NG) - 1 Month Butterfly Month 9-11 (HENRY HUB NAT GAS LAST DAY DELV)</b>								
MNG	Spec		Increase	USD	41	38	69	63
MNG	Hedge/Member		Increase	USD	38	38	63	63
<b>Henry Hub Natural Gas (NG) - 1 Month Butterfly Month 9-11 (NATURAL GAS HENRY HUB FUTURE)</b>								
NG	Spec		Increase	USD	165	150	275	250
NG	Hedge/Member		Increase	USD	150	150	250	250
<b>Henry Hub Natural Gas (NG) - 1 Month Butterfly Month 9-11 (NATURAL GAS TRADE AT SETTLEMENT)</b>								
NGT	Spec		Increase	USD	165	150	275	250
NGT	Hedge/Member		Increase	USD	150	150	250	250
<b>Henry Hub Natural Gas (NG, NN, HP) - Tier 4 vs. Tier 5 (E-MINI NATURAL GAS FUTURES)</b>								
QG	Spec		Increase	USD	83	75	124	113
QG	Hedge/Member		Increase	USD	75	75	113	113
<b>Henry Hub Natural Gas (NG, NN, HP) - Tier 4 vs. Tier 5 (HENRY HUB NAT GAS LAST DAY DELV)</b>								
MNG	Spec		Increase	USD	83	75	124	113
MNG	Hedge/Member		Increase	USD	75	75	113	113
<b>Henry Hub Natural Gas (NG, NN, HP) - Tier 4 vs. Tier 5 (HENRY HUB PENULTIMATE)</b>								
NP	Spec		Increase	USD	83	75	124	113
NP	Hedge/Member		Increase	USD	75	75	113	113
<b>Henry Hub Natural Gas (NG, NN, HP) - Tier 4 vs. Tier 5 (NATURAL GAS HENRY HUB FUTURE)</b>								
NG	Spec		Increase	USD	330	300	495	450
NG	Hedge/Member		Increase	USD	300	300	450	450

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Intra Spreads</b>								
<b>Henry Hub Natural Gas (NG, NN, HP) - Tier 4 vs. Tier 5 (NATURAL GAS TRADE AT SETTLEMENT)</b>								
NGT	Spec		Increase	USD	330	300	495	450
NGT	Hedge/Member		Increase	USD	300	300	450	450
<b>Henry Hub Natural Gas (NG, NN, HP) - Tier 4 vs. Tier 5 (NYMEX NATURAL GAS FUTURES)</b>								
HP	Spec		Increase	USD	330	300	495	450
HP	Hedge/Member		Increase	USD	300	300	450	450
<b>Henry Hub Natural Gas (NG, NN, HP) Consecutive Month Spread 5-6 (E-MINI NATURAL GAS FUTURES)</b>								
QG	Spec		Increase	USD	55	50	69	63
QG	Hedge/Member		Increase	USD	50	50	63	63
<b>Henry Hub Natural Gas (NG, NN, HP) Consecutive Month Spread 5-6 (HENRY HUB NAT GAS LAST DAY DELV)</b>								
MNG	Spec		Increase	USD	55	50	69	63
MNG	Hedge/Member		Increase	USD	50	50	63	63
<b>Henry Hub Natural Gas (NG, NN, HP) Consecutive Month Spread 5-6 (HENRY HUB PENULTIMATE)</b>								
NP	Spec		Increase	USD	55	50	69	63
NP	Hedge/Member		Increase	USD	50	50	63	63
<b>Henry Hub Natural Gas (NG, NN, HP) Consecutive Month Spread 5-6 (NATURAL GAS HENRY HUB FUTURE)</b>								
NG	Spec		Increase	USD	220	200	275	250
NG	Hedge/Member		Increase	USD	200	200	250	250
<b>Henry Hub Natural Gas (NG, NN, HP) Consecutive Month Spread 5-6 (NATURAL GAS TRADE AT SETTLEMENT)</b>								
NGT	Spec		Increase	USD	220	200	275	250
NGT	Hedge/Member		Increase	USD	200	200	250	250
<b>Henry Hub Natural Gas (NG, NN, HP) Consecutive Month Spread 5-6 (NYMEX NATURAL GAS FUTURES)</b>								
HP	Spec		Increase	USD	220	200	275	250
HP	Hedge/Member		Increase	USD	200	200	250	250
<b>Henry Hub Natural Gas (NG, NN, HP) Consecutive Month Spread 6-7 (E-MINI NATURAL GAS FUTURES)</b>								
QG	Spec		Increase	USD	55	50	69	63
QG	Hedge/Member		Increase	USD	50	50	63	63
<b>Henry Hub Natural Gas (NG, NN, HP) Consecutive Month Spread 6-7 (HENRY HUB NAT GAS LAST DAY DELV)</b>								
MNG	Spec		Increase	USD	55	50	69	63
MNG	Hedge/Member		Increase	USD	50	50	63	63
<b>Henry Hub Natural Gas (NG, NN, HP) Consecutive Month Spread 6-7 (HENRY HUB PENULTIMATE)</b>								
NP	Spec		Increase	USD	55	50	69	63
NP	Hedge/Member		Increase	USD	50	50	63	63

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Intra Spreads</b>								
<b>Henry Hub Natural Gas (NG, NN, HP) Consecutive Month Spread 6-7 (NATURAL GAS HENRY HUB FUTURE)</b>								
NG	Spec		Increase	USD	220	200	275	250
NG	Hedge/Member		Increase	USD	200	200	250	250
<b>Henry Hub Natural Gas (NG, NN, HP) Consecutive Month Spread 6-7 (NATURAL GAS TRADE AT SETTLEMENT)</b>								
NGT	Spec		Increase	USD	220	200	275	250
NGT	Hedge/Member		Increase	USD	200	200	250	250
<b>Henry Hub Natural Gas (NG, NN, HP) Consecutive Month Spread 6-7 (NYMEX NATURAL GAS FUTURES)</b>								
HP	Spec		Increase	USD	220	200	275	250
HP	Hedge/Member		Increase	USD	200	200	250	250
<b>Henry Hub Natural Gas (NG, NN, HP) Consecutive Month Spread 7-8 (E-MINI NATURAL GAS FUTURES)</b>								
QG	Spec		Increase	USD	55	50	69	63
QG	Hedge/Member		Increase	USD	50	50	63	63
<b>Henry Hub Natural Gas (NG, NN, HP) Consecutive Month Spread 7-8 (HENRY HUB NAT GAS LAST DAY DELV)</b>								
MNG	Spec		Increase	USD	55	50	69	63
MNG	Hedge/Member		Increase	USD	50	50	63	63
<b>Henry Hub Natural Gas (NG, NN, HP) Consecutive Month Spread 7-8 (HENRY HUB PENULTIMATE)</b>								
NP	Spec		Increase	USD	55	50	69	63
NP	Hedge/Member		Increase	USD	50	50	63	63
<b>Henry Hub Natural Gas (NG, NN, HP) Consecutive Month Spread 7-8 (NATURAL GAS HENRY HUB FUTURE)</b>								
NG	Spec		Increase	USD	220	200	275	250
NG	Hedge/Member		Increase	USD	200	200	250	250
<b>Henry Hub Natural Gas (NG, NN, HP) Consecutive Month Spread 7-8 (NATURAL GAS TRADE AT SETTLEMENT)</b>								
NGT	Spec		Increase	USD	220	200	275	250
NGT	Hedge/Member		Increase	USD	200	200	250	250
<b>Henry Hub Natural Gas (NG, NN, HP) Consecutive Month Spread 7-8 (NYMEX NATURAL GAS FUTURES)</b>								
HP	Spec		Increase	USD	220	200	275	250
HP	Hedge/Member		Increase	USD	200	200	250	250
<b>Henry Hub Natural Gas (NG, NN, HP) Consecutive Month Spread 8-9 (E-MINI NATURAL GAS FUTURES)</b>								
QG	Spec		Increase	USD	55	50	69	63
QG	Hedge/Member		Increase	USD	50	50	63	63
<b>Henry Hub Natural Gas (NG, NN, HP) Consecutive Month Spread 8-9 (HENRY HUB NAT GAS LAST DAY DELV)</b>								
MNG	Spec		Increase	USD	55	50	69	63
MNG	Hedge/Member		Increase	USD	50	50	63	63

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Intra Spreads</b>								
<b>Henry Hub Natural Gas (NG, NN, HP) Consecutive Month Spread 8-9 (HENRY HUB PENULTIMATE)</b>								
NP	Spec		Increase	USD	55	50	69	63
NP	Hedge/Member		Increase	USD	50	50	63	63
<b>Henry Hub Natural Gas (NG, NN, HP) Consecutive Month Spread 8-9 (NATURAL GAS HENRY HUB FUTURE)</b>								
NG	Spec		Increase	USD	220	200	275	250
NG	Hedge/Member		Increase	USD	200	200	250	250
<b>Henry Hub Natural Gas (NG, NN, HP) Consecutive Month Spread 8-9 (NATURAL GAS TRADE AT SETTLEMENT)</b>								
NGT	Spec		Increase	USD	220	200	275	250
NGT	Hedge/Member		Increase	USD	200	200	250	250
<b>Henry Hub Natural Gas (NG, NN, HP) Consecutive Month Spread 8-9 (NYMEX NATURAL GAS FUTURES)</b>								
HP	Spec		Increase	USD	220	200	275	250
HP	Hedge/Member		Increase	USD	200	200	250	250
<b>Henry Hub Natural Gas (NG, NN, HP) Consecutive Months 9+ (E-MINI NATURAL GAS FUTURES)</b>								
QG	Spec		Increase	USD	41	38	69	63
QG	Hedge/Member		Increase	USD	38	38	63	63
<b>Henry Hub Natural Gas (NG, NN, HP) Consecutive Months 9+ (HENRY HUB PENULTIMATE)</b>								
NP	Spec		Increase	USD	41	38	69	63
NP	Hedge/Member		Increase	USD	38	38	63	63
<b>Henry Hub Natural Gas (NG, NN, HP) Consecutive Months 9+ (NYMEX NATURAL GAS FUTURES)</b>								
HP	Spec		Increase	USD	165	150	275	250
HP	Hedge/Member		Increase	USD	150	150	250	250
<b>Henry Hub Natural Gas (NG, NN, HP) Consecutive Months Spread 9+ (HENRY HUB NAT GAS LAST DAY DELV)</b>								
MNG	Spec		Increase	USD	41	38	69	63
MNG	Hedge/Member		Increase	USD	38	38	63	63
<b>Henry Hub Natural Gas (NG, NN, HP) Consecutive Months Spread 9+ (NATURAL GAS HENRY HUB FUTURE)</b>								
NG	Spec		Increase	USD	165	150	275	250
NG	Hedge/Member		Increase	USD	150	150	250	250
<b>Henry Hub Natural Gas (NG, NN, HP) Consecutive Months Spread 9+ (NATURAL GAS TRADE AT SETTLEMENT)</b>								
NGT	Spec		Increase	USD	165	150	275	250
NGT	Hedge/Member		Increase	USD	150	150	250	250
<b>Henry Hub Natural Gas Penultimate Financial Futures (HP) - 1 Month Butterfly Month 10-12 (E-MINI NATURAL GAS FUTURES)</b>								
QG	Spec		Increase	USD	41	38	69	63
QG	Hedge/Member		Increase	USD	38	38	63	63



## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Intra Spreads</b>								
<b>Henry Hub Natural Gas Penultimate Financial Futures (HP) - 1 Month Butterfly Month 10-12 (HENRY HUB PENULTIMATE)</b>								
NP	Spec		Increase	USD	41	38	69	63
NP	Hedge/Member		Increase	USD	38	38	63	63
<b>Henry Hub Natural Gas Penultimate Financial Futures (HP) - 1 Month Butterfly Month 10-12 (NYMEX NATURAL GAS FUTURES)</b>								
HP	Spec		Increase	USD	165	150	275	250
HP	Hedge/Member		Increase	USD	150	150	250	250
<b>Henry Hub Natural Gas Penultimate Financial Futures (HP) - 1 Month Butterfly Month 11-13 (E-MINI NATURAL GAS FUTURES)</b>								
QG	Spec		Increase	USD	41	38	69	63
QG	Hedge/Member		Increase	USD	38	38	63	63
<b>Henry Hub Natural Gas Penultimate Financial Futures (HP) - 1 Month Butterfly Month 11-13 (HENRY HUB PENULTIMATE)</b>								
NP	Spec		Increase	USD	41	38	69	63
NP	Hedge/Member		Increase	USD	38	38	63	63
<b>Henry Hub Natural Gas Penultimate Financial Futures (HP) - 1 Month Butterfly Month 11-13 (NYMEX NATURAL GAS FUTURES)</b>								
HP	Spec		Increase	USD	165	150	275	250
HP	Hedge/Member		Increase	USD	150	150	250	250
<b>Henry Hub Natural Gas Penultimate Financial Futures (HP) - 1 Month Butterfly Month 12-14 (E-MINI NATURAL GAS FUTURES)</b>								
QG	Spec		Increase	USD	41	38	69	63
QG	Hedge/Member		Increase	USD	38	38	63	63
<b>Henry Hub Natural Gas Penultimate Financial Futures (HP) - 1 Month Butterfly Month 12-14 (HENRY HUB PENULTIMATE)</b>								
NP	Spec		Increase	USD	41	38	69	63
NP	Hedge/Member		Increase	USD	38	38	63	63
<b>Henry Hub Natural Gas Penultimate Financial Futures (HP) - 1 Month Butterfly Month 12-14 (NYMEX NATURAL GAS FUTURES)</b>								
HP	Spec		Increase	USD	165	150	275	250
HP	Hedge/Member		Increase	USD	150	150	250	250
<b>Henry Hub Natural Gas Penultimate Financial Futures (HP) - 1 Month Butterfly Month 13-15 (E-MINI NATURAL GAS FUTURES)</b>								
QG	Spec		Increase	USD	41	38	69	63
QG	Hedge/Member		Increase	USD	38	38	63	63

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Intra Spreads</b>								
<b>Henry Hub Natural Gas Penultimate Financial Futures (HP) - 1 Month Butterfly Month 13-15 (HENRY HUB PENULTIMATE)</b>								
NP	Spec		Increase	USD	41	38	69	63
NP	Hedge/Member		Increase	USD	38	38	63	63
<b>Henry Hub Natural Gas Penultimate Financial Futures (HP) - 1 Month Butterfly Month 13-15 (NYMEX NATURAL GAS FUTURES)</b>								
HP	Spec		Increase	USD	165	150	275	250
HP	Hedge/Member		Increase	USD	150	150	250	250
<b>Henry Hub Natural Gas Penultimate Financial Futures (HP) - 1 Month Butterfly Month 14-16 (E-MINI NATURAL GAS FUTURES)</b>								
QG	Spec		Increase	USD	41	38	69	63
QG	Hedge/Member		Increase	USD	38	38	63	63
<b>Henry Hub Natural Gas Penultimate Financial Futures (HP) - 1 Month Butterfly Month 14-16 (HENRY HUB PENULTIMATE)</b>								
NP	Spec		Increase	USD	41	38	69	63
NP	Hedge/Member		Increase	USD	38	38	63	63
<b>Henry Hub Natural Gas Penultimate Financial Futures (HP) - 1 Month Butterfly Month 14-16 (NYMEX NATURAL GAS FUTURES)</b>								
HP	Spec		Increase	USD	165	150	275	250
HP	Hedge/Member		Increase	USD	150	150	250	250
<b>Henry Hub Natural Gas Penultimate Financial Futures (HP) - 1 Month Butterfly Month 15-17 (E-MINI NATURAL GAS FUTURES)</b>								
QG	Spec		Increase	USD	41	38	69	63
QG	Hedge/Member		Increase	USD	38	38	63	63
<b>Henry Hub Natural Gas Penultimate Financial Futures (HP) - 1 Month Butterfly Month 15-17 (HENRY HUB PENULTIMATE)</b>								
NP	Spec		Increase	USD	41	38	69	63
NP	Hedge/Member		Increase	USD	38	38	63	63
<b>Henry Hub Natural Gas Penultimate Financial Futures (HP) - 1 Month Butterfly Month 15-17 (NYMEX NATURAL GAS FUTURES)</b>								
HP	Spec		Increase	USD	165	150	275	250
HP	Hedge/Member		Increase	USD	150	150	250	250
<b>Henry Hub Natural Gas Penultimate Financial Futures (HP) - 1 Month Butterfly Month 16-18 (E-MINI NATURAL GAS FUTURES)</b>								
QG	Spec		Increase	USD	41	38	69	63
QG	Hedge/Member		Increase	USD	38	38	63	63

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Intra Spreads</b>								
<b>Henry Hub Natural Gas Penultimate Financial Futures (HP) - 1 Month Butterfly Month 16-18 (HENRY HUB PENULTIMATE)</b>								
NP	Spec		Increase	USD	41	38	69	63
NP	Hedge/Member		Increase	USD	38	38	63	63
<b>Henry Hub Natural Gas Penultimate Financial Futures (HP) - 1 Month Butterfly Month 16-18 (NYMEX NATURAL GAS FUTURES)</b>								
HP	Spec		Increase	USD	165	150	275	250
HP	Hedge/Member		Increase	USD	150	150	250	250
<b>Henry Hub Natural Gas Penultimate Financial Futures (HP) - 1 Month Butterfly Month 17-19 (E-MINI NATURAL GAS FUTURES)</b>								
QG	Spec		Increase	USD	41	38	69	63
QG	Hedge/Member		Increase	USD	38	38	63	63
<b>Henry Hub Natural Gas Penultimate Financial Futures (HP) - 1 Month Butterfly Month 17-19 (HENRY HUB PENULTIMATE)</b>								
NP	Spec		Increase	USD	41	38	69	63
NP	Hedge/Member		Increase	USD	38	38	63	63
<b>Henry Hub Natural Gas Penultimate Financial Futures (HP) - 1 Month Butterfly Month 17-19 (NYMEX NATURAL GAS FUTURES)</b>								
HP	Spec		Increase	USD	165	150	275	250
HP	Hedge/Member		Increase	USD	150	150	250	250
<b>Henry Hub Natural Gas Penultimate Financial Futures (HP) - 1 Month Butterfly Month 18-20 (E-MINI NATURAL GAS FUTURES)</b>								
QG	Spec		Increase	USD	41	38	69	63
QG	Hedge/Member		Increase	USD	38	38	63	63
<b>Henry Hub Natural Gas Penultimate Financial Futures (HP) - 1 Month Butterfly Month 18-20 (HENRY HUB PENULTIMATE)</b>								
NP	Spec		Increase	USD	41	38	69	63
NP	Hedge/Member		Increase	USD	38	38	63	63
<b>Henry Hub Natural Gas Penultimate Financial Futures (HP) - 1 Month Butterfly Month 18-20 (NYMEX NATURAL GAS FUTURES)</b>								
HP	Spec		Increase	USD	165	150	275	250
HP	Hedge/Member		Increase	USD	150	150	250	250
<b>Henry Hub Natural Gas Penultimate Financial Futures (HP) - 1 Month Butterfly Month 19-21 (E-MINI NATURAL GAS FUTURES)</b>								
QG	Spec		Increase	USD	41	38	69	63
QG	Hedge/Member		Increase	USD	38	38	63	63

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Intra Spreads</b>								
<b>Henry Hub Natural Gas Penultimate Financial Futures (HP) - 1 Month Butterfly Month 19-21 (HENRY HUB PENULTIMATE)</b>								
NP	Spec		Increase	USD	41	38	69	63
NP	Hedge/Member		Increase	USD	38	38	63	63
<b>Henry Hub Natural Gas Penultimate Financial Futures (HP) - 1 Month Butterfly Month 19-21 (NYMEX NATURAL GAS FUTURES)</b>								
HP	Spec		Increase	USD	165	150	275	250
HP	Hedge/Member		Increase	USD	150	150	250	250
<b>Henry Hub Natural Gas Penultimate Financial Futures (HP) - 1 Month Butterfly Month 20-22 (E-MINI NATURAL GAS FUTURES)</b>								
QG	Spec		Increase	USD	41	38	69	63
QG	Hedge/Member		Increase	USD	38	38	63	63
<b>Henry Hub Natural Gas Penultimate Financial Futures (HP) - 1 Month Butterfly Month 20-22 (HENRY HUB PENULTIMATE)</b>								
NP	Spec		Increase	USD	41	38	69	63
NP	Hedge/Member		Increase	USD	38	38	63	63
<b>Henry Hub Natural Gas Penultimate Financial Futures (HP) - 1 Month Butterfly Month 20-22 (NYMEX NATURAL GAS FUTURES)</b>								
HP	Spec		Increase	USD	165	150	275	250
HP	Hedge/Member		Increase	USD	150	150	250	250
<b>Henry Hub Natural Gas Penultimate Financial Futures (HP) - 1 Month Butterfly Month 21-23 (E-MINI NATURAL GAS FUTURES)</b>								
QG	Spec		Increase	USD	41	38	69	63
QG	Hedge/Member		Increase	USD	38	38	63	63
<b>Henry Hub Natural Gas Penultimate Financial Futures (HP) - 1 Month Butterfly Month 21-23 (HENRY HUB PENULTIMATE)</b>								
NP	Spec		Increase	USD	41	38	69	63
NP	Hedge/Member		Increase	USD	38	38	63	63
<b>Henry Hub Natural Gas Penultimate Financial Futures (HP) - 1 Month Butterfly Month 21-23 (NYMEX NATURAL GAS FUTURES)</b>								
HP	Spec		Increase	USD	165	150	275	250
HP	Hedge/Member		Increase	USD	150	150	250	250
<b>Henry Hub Natural Gas Penultimate Financial Futures (HP) - 1 Month Butterfly Month 22-24 (E-MINI NATURAL GAS FUTURES)</b>								
QG	Spec		Increase	USD	41	38	69	63
QG	Hedge/Member		Increase	USD	38	38	63	63

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Intra Spreads</b>								
<b>Henry Hub Natural Gas Penultimate Financial Futures (HP) - 1 Month Butterfly Month 22-24 (HENRY HUB PENULTIMATE)</b>								
NP	Spec		Increase	USD	41	38	69	63
NP	Hedge/Member		Increase	USD	38	38	63	63
<b>Henry Hub Natural Gas Penultimate Financial Futures (HP) - 1 Month Butterfly Month 22-24 (NYMEX NATURAL GAS FUTURES)</b>								
HP	Spec		Increase	USD	165	150	275	250
HP	Hedge/Member		Increase	USD	150	150	250	250
<b>Henry Hub Natural Gas Penultimate Financial Futures (HP) - 1 Month Butterfly Month 23-25 (E-MINI NATURAL GAS FUTURES)</b>								
QG	Spec		Increase	USD	41	38	69	63
QG	Hedge/Member		Increase	USD	38	38	63	63
<b>Henry Hub Natural Gas Penultimate Financial Futures (HP) - 1 Month Butterfly Month 23-25 (HENRY HUB PENULTIMATE)</b>								
NP	Spec		Increase	USD	41	38	69	63
NP	Hedge/Member		Increase	USD	38	38	63	63
<b>Henry Hub Natural Gas Penultimate Financial Futures (HP) - 1 Month Butterfly Month 23-25 (NYMEX NATURAL GAS FUTURES)</b>								
HP	Spec		Increase	USD	165	150	275	250
HP	Hedge/Member		Increase	USD	150	150	250	250
<b>Henry Hub Natural Gas Penultimate Financial Futures (HP) - 1 Month Butterfly Month 24-26 (E-MINI NATURAL GAS FUTURES)</b>								
QG	Spec		Increase	USD	41	38	69	63
QG	Hedge/Member		Increase	USD	38	38	63	63
<b>Henry Hub Natural Gas Penultimate Financial Futures (HP) - 1 Month Butterfly Month 24-26 (HENRY HUB PENULTIMATE)</b>								
NP	Spec		Increase	USD	41	38	69	63
NP	Hedge/Member		Increase	USD	38	38	63	63
<b>Henry Hub Natural Gas Penultimate Financial Futures (HP) - 1 Month Butterfly Month 24-26 (NYMEX NATURAL GAS FUTURES)</b>								
HP	Spec		Increase	USD	165	150	275	250
HP	Hedge/Member		Increase	USD	150	150	250	250
<b>Henry Hub Natural Gas Penultimate Financial Futures (HP) - 1 Month Butterfly Month 3-5 (E-MINI NATURAL GAS FUTURES)</b>								
QG	Spec		Increase	USD	55	50	69	63
QG	Hedge/Member		Increase	USD	50	50	63	63

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Intra Spreads</b>								
<b>Henry Hub Natural Gas Penultimate Financial Futures (HP) - 1 Month Butterfly Month 3-5 (HENRY HUB PENULTIMATE)</b>								
NP	Spec		Increase	USD	55	50	69	63
NP	Hedge/Member		Increase	USD	50	50	63	63
<b>Henry Hub Natural Gas Penultimate Financial Futures (HP) - 1 Month Butterfly Month 3-5 (NYMEX NATURAL GAS FUTURES)</b>								
HP	Spec		Increase	USD	220	200	275	250
HP	Hedge/Member		Increase	USD	200	200	250	250
<b>Henry Hub Natural Gas Penultimate Financial Futures (HP) - 1 Month Butterfly Month 4-6 (E-MINI NATURAL GAS FUTURES)</b>								
QG	Spec		Increase	USD	55	50	69	63
QG	Hedge/Member		Increase	USD	50	50	63	63
<b>Henry Hub Natural Gas Penultimate Financial Futures (HP) - 1 Month Butterfly Month 4-6 (HENRY HUB PENULTIMATE)</b>								
NP	Spec		Increase	USD	55	50	69	63
NP	Hedge/Member		Increase	USD	50	50	63	63
<b>Henry Hub Natural Gas Penultimate Financial Futures (HP) - 1 Month Butterfly Month 4-6 (NYMEX NATURAL GAS FUTURES)</b>								
HP	Spec		Increase	USD	220	200	275	250
HP	Hedge/Member		Increase	USD	200	200	250	250
<b>Henry Hub Natural Gas Penultimate Financial Futures (HP) - 1 Month Butterfly Month 5-7 (E-MINI NATURAL GAS FUTURES)</b>								
QG	Spec		Increase	USD	55	50	69	63
QG	Hedge/Member		Increase	USD	50	50	63	63
<b>Henry Hub Natural Gas Penultimate Financial Futures (HP) - 1 Month Butterfly Month 5-7 (HENRY HUB PENULTIMATE)</b>								
NP	Spec		Increase	USD	55	50	69	63
NP	Hedge/Member		Increase	USD	50	50	63	63
<b>Henry Hub Natural Gas Penultimate Financial Futures (HP) - 1 Month Butterfly Month 5-7 (NYMEX NATURAL GAS FUTURES)</b>								
HP	Spec		Increase	USD	220	200	275	250
HP	Hedge/Member		Increase	USD	200	200	250	250
<b>Henry Hub Natural Gas Penultimate Financial Futures (HP) - 1 Month Butterfly Month 6-8 (E-MINI NATURAL GAS FUTURES)</b>								
QG	Spec		Increase	USD	41	38	69	63
QG	Hedge/Member		Increase	USD	38	38	63	63

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Intra Spreads</b>								
<b>Henry Hub Natural Gas Penultimate Financial Futures (HP) - 1 Month Butterfly Month 6-8 (HENRY HUB PENULTIMATE)</b>								
NP	Spec		Increase	USD	41	38	69	63
NP	Hedge/Member		Increase	USD	38	38	63	63
<b>Henry Hub Natural Gas Penultimate Financial Futures (HP) - 1 Month Butterfly Month 6-8 (NYMEX NATURAL GAS FUTURES)</b>								
HP	Spec		Increase	USD	165	150	275	250
HP	Hedge/Member		Increase	USD	150	150	250	250
<b>Henry Hub Natural Gas Penultimate Financial Futures (HP) - 1 Month Butterfly Month 7-9 (E-MINI NATURAL GAS FUTURES)</b>								
QG	Spec		Increase	USD	41	38	69	63
QG	Hedge/Member		Increase	USD	38	38	63	63
<b>Henry Hub Natural Gas Penultimate Financial Futures (HP) - 1 Month Butterfly Month 7-9 (HENRY HUB PENULTIMATE)</b>								
NP	Spec		Increase	USD	41	38	69	63
NP	Hedge/Member		Increase	USD	38	38	63	63
<b>Henry Hub Natural Gas Penultimate Financial Futures (HP) - 1 Month Butterfly Month 7-9 (NYMEX NATURAL GAS FUTURES)</b>								
HP	Spec		Increase	USD	165	150	275	250
HP	Hedge/Member		Increase	USD	150	150	250	250
<b>Henry Hub Natural Gas Penultimate Financial Futures (HP) - 1 Month Butterfly Month 8-10 (E-MINI NATURAL GAS FUTURES)</b>								
QG	Spec		Increase	USD	41	38	69	63
QG	Hedge/Member		Increase	USD	38	38	63	63
<b>Henry Hub Natural Gas Penultimate Financial Futures (HP) - 1 Month Butterfly Month 8-10 (HENRY HUB PENULTIMATE)</b>								
NP	Spec		Increase	USD	41	38	69	63
NP	Hedge/Member		Increase	USD	38	38	63	63
<b>Henry Hub Natural Gas Penultimate Financial Futures (HP) - 1 Month Butterfly Month 8-10 (NYMEX NATURAL GAS FUTURES)</b>								
HP	Spec		Increase	USD	165	150	275	250
HP	Hedge/Member		Increase	USD	150	150	250	250
<b>Henry Hub Natural Gas Penultimate Financial Futures (HP) - 1 Month Butterfly Month 9-11 (E-MINI NATURAL GAS FUTURES)</b>								
QG	Spec		Increase	USD	41	38	69	63
QG	Hedge/Member		Increase	USD	38	38	63	63

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Intra Spreads</b>								
<b>Henry Hub Natural Gas Penultimate Financial Futures (HP) - 1 Month Butterfly Month 9-11 (HENRY HUB PENULTIMATE)</b>								
NP	Spec		Increase	USD	41	38	69	63
NP	Hedge/Member		Increase	USD	38	38	63	63
<b>Henry Hub Natural Gas Penultimate Financial Futures (HP) - 1 Month Butterfly Month 9-11 (NYMEX NATURAL GAS FUTURES)</b>								
HP	Spec		Increase	USD	165	150	275	250
HP	Hedge/Member		Increase	USD	150	150	250	250

Rate Type	Tier Description	Change	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Volatility Scan (volScan) Rate</b>						
<b>FX - Volatility Scan (volScan) Rate</b>						
<b>JAPANESE YEN (J7, JY, JY, MJY, YJ) - volScan</b>						
Clearing Member Rate		Increase		0.03		0.05
<b>METALS - Volatility Scan (volScan) Rate</b>						
<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, QO, QS) - volScan</b>						
Clearing Member Rate	Mths 1-4	Increase		0.05		0.08
Clearing Member Rate	Mths 5-6	Increase		0.03		0.05
Clearing Member Rate	Mths 7-12	Increase		0.02		0.04
Clearing Member Rate	Mths 13+	Increase		0.02		0.03
<b>PLATINUM FUTURES (PL, PO, PQ, QR) - volScan</b>						
Clearing Member Rate	Mths 1	Increase		0.08		0.10
Clearing Member Rate	Mths 2+	Increase		0.04		0.06
<b>SILVER FUTURES (6Q, QI, SI, SIT, SO) - volScan</b>						
Clearing Member Rate	Mths 1-4	Increase		0.11		0.14
Clearing Member Rate	Mths 5-6	Increase		0.05		0.08
Clearing Member Rate	Mths 7-12	Increase		0.03		0.05
Clearing Member Rate	Mths 13+	Increase		0.03		0.04