



14-053

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

FROM: CME Clearing

SUBJECT: Performance Bond Requirements

DATE: Thursday, January 30, 2014

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

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

***and subscribe to the Performance Bond Rates Advisory Notice listserver.***

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

The rates will be effective after the close of business on

**Friday, January 31, 2014.**

Current rates as of:

**Thursday, January 30, 2014.**

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

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

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

# SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

| CC  | Rate Type    | Description | Change   | ISO | Current Initial | Current Maintenance | New Initial | New Maintenance |
|---|--------------|-------------|----------|-----|-----------------|---------------------|-------------|-----------------|
| <b>Outright Rates</b>                           |              |             |          |     |                 |                     |             |                 |
| <b>AGRICULTURE - Outright Rates</b>             |              |             |          |     |                 |                     |             |                 |
| <b>KC HRW WHEAT FUTURES (KW)</b>                |              |             |          |     |                 |                     |             |                 |
| KW  | Spec         | Old Crop    | Decrease | USD | 2,063           | 1,650               | 1,750       | 1,400           |
| KW  | Hedge/Member | Old Crop    | Decrease | USD | 1,650           | 1,650               | 1,400       | 1,400           |
| <b>MINI-SIZED WHEAT FUTURES (YW)</b>            |              |             |          |     |                 |                     |             |                 |
| YW  | Spec         | All Months  | Decrease | USD | 446             | 330                 | 378         | 280             |
| YW  | Hedge/Member | All Months  | Decrease | USD | 330             | 330                 | 280         | 280             |
| <b>WHEAT FUTURES (W)</b>                        |              |             |          |     |                 |                     |             |                 |
| W   | Spec         | All Months  | Decrease | USD | 2,228           | 1,650               | 1,890       | 1,400           |
| W   | Hedge/Member | All Months  | Decrease | USD | 1,650           | 1,650               | 1,400       | 1,400           |
| <b>CRUDE OIL SPREADS - Outright Rates</b>       |              |             |          |     |                 |                     |             |                 |
| <b>ICE BRENT DUBAI FUT (DB)</b>                 |              |             |          |     |                 |                     |             |                 |
| DB  | Spec         | Mnth 1      | Increase | USD | 1,100           | 1,000               | 1,430       | 1,300           |
| DB  | Hedge/Member | Mnth 1      | Increase | USD | 1,000           | 1,000               | 1,300       | 1,300           |
| <b>ELECTRICITY - Outright Rates</b>             |              |             |          |     |                 |                     |             |                 |
| <b>AER-DAYTON HUB MONTHLY (VM)</b>              |              |             |          |     |                 |                     |             |                 |
| VM  | Spec         | Mnth 1      | Increase | USD | 36,300          | 33,000              | 82,500      | 75,000          |
| VM  | Hedge/Member | Mnth 1      | Increase | USD | 33,000          | 33,000              | 75,000      | 75,000          |
| VM  | Spec         | Mnth 2      | Increase | USD | 16,500          | 15,000              | 27,500      | 25,000          |
| VM  | Hedge/Member | Mnth 2      | Increase | USD | 15,000          | 15,000              | 25,000      | 25,000          |
| <b>ERCOT NRTH 345 KV HUB 5 MW PEAK FUT (I5)</b> |              |             |          |     |                 |                     |             |                 |
| I5  | Spec         | Mnth 1      | Increase | USD | 1,870           | 1,700               | 2,585       | 2,350           |
| I5  | Hedge/Member | Mnth 1      | Increase | USD | 1,700           | 1,700               | 2,350       | 2,350           |
| <b>ISO NEW ENG MASS HUB DA OP DAILY (IDO)</b>   |              |             |          |     |                 |                     |             |                 |
| IDO   | Spec         |             | Increase | USD | 413             | 375                 | 990         | 900             |
| IDO   | Hedge/Member |             | Increase | USD | 375             | 375                 | 900         | 900             |
| <b>ISO NEW ENGLAND OFF-PEAK LMP FUT (KI)</b>    |              |             |          |     |                 |                     |             |                 |
| KI  | Spec         | Mnth 1      | Increase | USD | 22,000          | 20,000              | 49,500      | 45,000          |
| KI  | Hedge/Member | Mnth 1      | Increase | USD | 20,000          | 20,000              | 45,000      | 45,000          |
| KI  | Spec         | Mnth 2      | Increase | USD | 19,800          | 18,000              | 44,000      | 40,000          |
| KI  | Hedge/Member | Mnth 2      | Increase | USD | 18,000          | 18,000              | 40,000      | 40,000          |
| KI  | Spec         | Mnths 12+   | Increase | USD | 6,270           | 5,700               | 12,540      | 11,400          |
| KI  | Hedge/Member | Mnths 12+   | Increase | USD | 5,700           | 5,700               | 11,400      | 11,400          |
| <b>ISO NEW ENGLAND PEAK LMP FUT (NI)</b>        |              |             |          |     |                 |                     |             |                 |
| NI  | Spec         | Mnth 1      | Increase | USD | 24,200          | 22,000              | 48,400      | 44,000          |

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

| CC   | Rate Type    | Description | Change   | ISO | Current Initial | Current Maintenance | New Initial | New Maintenance |
|--|--------------|-------------|----------|-----|-----------------|---------------------|-------------|-----------------|
| <b>Outright Rates</b>                            |              |             |          |     |                 |                     |             |                 |
| NI   | Hedge/Member | Mnth 1      | Increase | USD | 22,000          | 22,000              | 44,000      | 44,000          |
| NI   | Spec         | Mnth 2      | Increase | USD | 22,000          | 20,000              | 44,000      | 40,000          |
| NI   | Hedge/Member | Mnth 2      | Increase | USD | 20,000          | 20,000              | 40,000      | 40,000          |
| NI   | Spec         | Mnths 12+   | Increase | USD | 6,600           | 6,000               | 13,200      | 12,000          |
| NI   | Hedge/Member | Mnths 12+   | Increase | USD | 6,000           | 6,000               | 12,000      | 12,000          |
| <b>MDWST ISO IND. HUB 5MW PK CAL-MO RT (PTM)</b> |              |             |          |     |                 |                     |             |                 |
| PTM  | Spec         | Mnth 1      | Increase | USD | 1,540           | 1,400               | 2,420       | 2,200           |
| PTM  | Hedge/Member | Mnth 1      | Increase | USD | 1,400           | 1,400               | 2,200       | 2,200           |
| PTM  | Spec         | Mnth 2      | Increase | USD | 1,045           | 950                 | 1,485       | 1,350           |
| PTM  | Hedge/Member | Mnth 2      | Increase | USD | 950             | 950                 | 1,350       | 1,350           |
| <b>MDWST ISO INDIANA HUB 5MWPK CAL MO (PDM)</b>  |              |             |          |     |                 |                     |             |                 |
| PDM  | Spec         | Mnth 1      | Increase | USD | 1,100           | 1,000               | 2,090       | 1,900           |
| PDM  | Hedge/Member | Mnth 1      | Increase | USD | 1,000           | 1,000               | 1,900       | 1,900           |
| PDM  | Spec         | Mnth 2      | Increase | USD | 660             | 600                 | 1,485       | 1,350           |
| PDM  | Hedge/Member | Mnth 2      | Increase | USD | 600             | 600                 | 1,350       | 1,350           |
| PDM  | Spec         | Mnths 3-11  | Increase | USD | 303             | 275                 | 413         | 375             |
| PDM  | Hedge/Member | Mnths 3-11  | Increase | USD | 275             | 275                 | 375         | 375             |
| PDM  | Spec         | Mnths 12+   | Increase | USD | 275             | 250                 | 385         | 350             |
| PDM  | Hedge/Member | Mnths 12+   | Increase | USD | 250             | 250                 | 350         | 350             |
| <b>MICHIGAN HUB OFF-PEAK MONTH FUT (HJ)</b>      |              |             |          |     |                 |                     |             |                 |
| HJ   | Spec         | Mnth 1      | Increase | USD | 6,600           | 6,000               | 12,100      | 11,000          |
| HJ   | Hedge/Member | Mnth 1      | Increase | USD | 6,000           | 6,000               | 11,000      | 11,000          |
| HJ   | Spec         | Mnth 2      | Increase | USD | 2,200           | 2,000               | 6,600       | 6,000           |
| HJ   | Hedge/Member | Mnth 2      | Increase | USD | 2,000           | 2,000               | 6,000       | 6,000           |
| HJ   | Spec         | Mnths 3-11  | Increase | USD | 1,375           | 1,250               | 2,750       | 2,500           |
| HJ   | Hedge/Member | Mnths 3-11  | Increase | USD | 1,250           | 1,250               | 2,500       | 2,500           |
| HJ   | Spec         | Mnths 12+   | Increase | USD | 1,375           | 1,250               | 2,750       | 2,500           |
| HJ   | Hedge/Member | Mnths 12+   | Increase | USD | 1,250           | 1,250               | 2,500       | 2,500           |
| <b>MICHIGAN HUB PEAK MONTH FUT (HM)</b>          |              |             |          |     |                 |                     |             |                 |
| HM   | Spec         | Mnth 1      | Increase | USD | 8,250           | 7,500               | 24,750      | 22,500          |
| HM   | Hedge/Member | Mnth 1      | Increase | USD | 7,500           | 7,500               | 22,500      | 22,500          |
| HM   | Spec         | Mnth 2      | Increase | USD | 5,500           | 5,000               | 16,500      | 15,000          |
| HM   | Hedge/Member | Mnth 2      | Increase | USD | 5,000           | 5,000               | 15,000      | 15,000          |
| HM   | Spec         | Mnths 3-11  | Increase | USD | 2,200           | 2,000               | 4,400       | 4,000           |
| HM   | Hedge/Member | Mnths 3-11  | Increase | USD | 2,000           | 2,000               | 4,000       | 4,000           |
| HM   | Spec         | Mnth 12+    | Increase | USD | 1,650           | 1,500               | 3,300       | 3,000           |
| HM   | Hedge/Member | Mnth 12+    | Increase | USD | 1,500           | 1,500               | 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>MID IND TRAN SO IL HUB5MW PEAK (4Q)</b>       |              |             |          |     |                 |                     |             |                 |
| 4Q   | Spec         | Mnth 1      | Increase | USD | 660             | 600                 | 1,980       | 1,800           |
| 4Q   | Hedge/Member | Mnth 1      | Increase | USD | 600             | 600                 | 1,800       | 1,800           |
| 4Q   | Spec         | Mnth 2      | Increase | USD | 440             | 400                 | 1,320       | 1,200           |
| 4Q   | Hedge/Member | Mnth 2      | Increase | USD | 400             | 400                 | 1,200       | 1,200           |
| 4Q   | Spec         | Mnths 3-11  | Increase | USD | 248             | 225                 | 440         | 400             |
| 4Q   | Hedge/Member | Mnths 3-11  | Increase | USD | 225             | 225                 | 400         | 400             |
| 4Q   | Spec         | Mnths 12+   | Increase | USD | 138             | 125                 | 413         | 375             |
| 4Q   | Hedge/Member | Mnths 12+   | Increase | USD | 125             | 125                 | 375         | 375             |
| <b>MIDWEST ISO MICHIGAN HUB 5MW PEAK C (HMW)</b> |              |             |          |     |                 |                     |             |                 |
| HMW  | Spec         | Mnth 1      | Increase | USD | 715             | 650                 | 2,145       | 1,950           |
| HMW  | Hedge/Member | Mnth 1      | Increase | USD | 650             | 650                 | 1,950       | 1,950           |
| HMW  | Spec         | Mnth 2-4    | Increase | USD | 688             | 625                 | 1,760       | 1,600           |
| HMW  | Hedge/Member | Mnth 2-4    | Increase | USD | 625             | 625                 | 1,600       | 1,600           |
| HMW  | Spec         | Mnth 5-11   | Increase | USD | 495             | 450                 | 6,050       | 5,500           |
| HMW  | Hedge/Member | Mnth 5-11   | Increase | USD | 450             | 450                 | 5,500       | 5,500           |
| HMW  | Spec         | Mnth 12+    | Increase | USD | 413             | 375                 | 523         | 475             |
| HMW  | Hedge/Member | Mnth 12+    | Increase | USD | 375             | 375                 | 475         | 475             |
| <b>MISO IND. HUB 5MW OFPK CAL MTH DA (FDM)</b>   |              |             |          |     |                 |                     |             |                 |
| FDM  | Spec         | Mnth 1      | Increase | USD | 22              | 20                  | 66          | 60              |
| FDM  | Hedge/Member | Mnth 1      | Increase | USD | 20              | 20                  | 60          | 60              |
| FDM  | Spec         | Mnth 2      | Increase | USD | 17              | 15                  | 39          | 35              |
| FDM  | Hedge/Member | Mnth 2      | Increase | USD | 15              | 15                  | 35          | 35              |
| FDM  | Spec         | Mnths 3-11  | Increase | USD | 17              | 15                  | 22          | 20              |
| FDM  | Hedge/Member | Mnths 3-11  | Increase | USD | 15              | 15                  | 20          | 20              |
| FDM  | Spec         | Mnths 12+   | Increase | USD | 17              | 15                  | 22          | 20              |
| FDM  | Hedge/Member | Mnths 12+   | Increase | USD | 15              | 15                  | 20          | 20              |
| <b>MISO INDIANA HUB 5MW D AH O PK (K2)</b>       |              |             |          |     |                 |                     |             |                 |
| K2   | Spec         | Mnth 1      | Increase | USD | 22              | 20                  | 66          | 60              |
| K2   | Hedge/Member | Mnth 1      | Increase | USD | 20              | 20                  | 60          | 60              |
| K2   | Spec         | Mnth 2      | Increase | USD | 17              | 15                  | 33          | 30              |
| K2   | Hedge/Member | Mnth 2      | Increase | USD | 15              | 15                  | 30          | 30              |
| K2   | Spec         | Mnths 3-11  | Increase | USD | 17              | 15                  | 22          | 20              |
| K2   | Hedge/Member | Mnths 3-11  | Increase | USD | 15              | 15                  | 20          | 20              |
| K2   | Spec         | Mnths 4+    | Increase | USD | 17              | 15                  | 22          | 20              |
| K2   | Hedge/Member | Mnths 4+    | Increase | USD | 15              | 15                  | 20          | 20              |

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

| CC   | Rate Type    | Description | Change   | ISO | Current Initial | Current Maintenance | New Initial | New Maintenance |
|--|--------------|-------------|----------|-----|-----------------|---------------------|-------------|-----------------|
| <b>Outright Rates</b>                            |              |             |          |     |                 |                     |             |                 |
| <b>MISO INDIANA HUB 5MW D AH PK (H5)</b>         |              |             |          |     |                 |                     |             |                 |
| H5   | Spec         | Mnth 1      | Increase | USD | 935             | 850                 | 2,090       | 1,900           |
| H5   | Hedge/Member | Mnth 1      | Increase | USD | 850             | 850                 | 1,900       | 1,900           |
| H5   | Spec         | Mnth 2      | Increase | USD | 550             | 500                 | 1,485       | 1,350           |
| H5   | Hedge/Member | Mnth 2      | Increase | USD | 500             | 500                 | 1,350       | 1,350           |
| H5   | Spec         | Mnths 3-11  | Increase | USD | 303             | 275                 | 413         | 375             |
| H5   | Hedge/Member | Mnths 3-11  | Increase | USD | 275             | 275                 | 375         | 375             |
| H5   | Spec         | Mnth 12+    | Increase | USD | 275             | 250                 | 385         | 350             |
| H5   | Hedge/Member | Mnth 12+    | Increase | USD | 250             | 250                 | 350         | 350             |
| <b>MISO INDIANA HUB 5MW OFPK CAL MO RT (FTM)</b> |              |             |          |     |                 |                     |             |                 |
| FTM  | Spec         | Mnth 1      | Increase | USD | 22              | 20                  | 66          | 60              |
| FTM  | Hedge/Member | Mnth 1      | Increase | USD | 20              | 20                  | 60          | 60              |
| FTM  | Spec         | Mnth 2      | Increase | USD | 17              | 15                  | 33          | 30              |
| FTM  | Hedge/Member | Mnth 2      | Increase | USD | 15              | 15                  | 30          | 30              |
| <b>MISO INDIANA HUB 5MW PK CAL-DAY RT (PTD)</b>  |              |             |          |     |                 |                     |             |                 |
| PTD  | Spec         |             | Increase | USD | 5,280           | 4,800               | 6,600       | 6,000           |
| PTD  | Hedge/Member |             | Increase | USD | 4,800           | 4,800               | 6,000       | 6,000           |
| <b>MISO INDIANA HUB 5MW REAL TIME O PK (H4)</b>  |              |             |          |     |                 |                     |             |                 |
| H4   | Spec         | Mnth 1      | Increase | USD | 22              | 20                  | 66          | 60              |
| H4   | Hedge/Member | Mnth 1      | Increase | USD | 20              | 20                  | 60          | 60              |
| H4   | Spec         | Mnth 2      | Increase | USD | 17              | 15                  | 33          | 30              |
| H4   | Hedge/Member | Mnth 2      | Increase | USD | 15              | 15                  | 30          | 30              |
| H4   | Spec         | Mnths 3-11  | Increase | USD | 17              | 15                  | 22          | 20              |
| H4   | Hedge/Member | Mnths 3-11  | Increase | USD | 15              | 15                  | 20          | 20              |
| H4   | Spec         | Mnths 12+   | Increase | USD | 17              | 15                  | 22          | 20              |
| H4   | Hedge/Member | Mnths 12+   | Increase | USD | 15              | 15                  | 20          | 20              |
| <b>MISO INDIANA HUB 5MW REAL TIME PK (H3)</b>    |              |             |          |     |                 |                     |             |                 |
| H3   | Spec         | Mnth 1      | Increase | USD | 1,375           | 1,250               | 2,420       | 2,200           |
| H3   | Hedge/Member | Mnth 1      | Increase | USD | 1,250           | 1,250               | 2,200       | 2,200           |
| H3   | Spec         | Mnth 2      | Increase | USD | 550             | 500                 | 1,485       | 1,350           |
| H3   | Hedge/Member | Mnth 2      | Increase | USD | 500             | 500                 | 1,350       | 1,350           |
| H3   | Spec         | Mnths 3-11  | Increase | USD | 303             | 275                 | 413         | 375             |
| H3   | Hedge/Member | Mnths 3-11  | Increase | USD | 275             | 275                 | 375         | 375             |
| H3   | Spec         | Mnth 12+    | Increase | USD | 275             | 250                 | 385         | 350             |
| H3   | Hedge/Member | Mnth 12+    | Increase | USD | 250             | 250                 | 350         | 350             |

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

| CC  | Rate Type    | Description | Change   | ISO | Current Initial | Current Maintenance | New Initial | New Maintenance |
|---|--------------|-------------|----------|-----|-----------------|---------------------|-------------|-----------------|
| <b>Outright Rates</b>                           |              |             |          |     |                 |                     |             |                 |
| <b>MISO INDIANA HUB OFF-PEAK MO FUT (EJ)</b>    |              |             |          |     |                 |                     |             |                 |
| EJ  | Spec         | Mnth 1      | Increase | USD | 2,420           | 2,200               | 7,260       | 6,600           |
| EJ  | Hedge/Member | Mnth 1      | Increase | USD | 2,200           | 2,200               | 6,600       | 6,600           |
| EJ  | Spec         | Mnth 2      | Increase | USD | 2,200           | 2,000               | 6,600       | 6,000           |
| EJ  | Hedge/Member | Mnth 2      | Increase | USD | 2,000           | 2,000               | 6,000       | 6,000           |
| EJ  | Spec         | Mnth 12+    | Increase | USD | 1,870           | 1,700               | 2,750       | 2,500           |
| EJ  | Hedge/Member | Mnth 12+    | Increase | USD | 1,700           | 1,700               | 2,500       | 2,500           |
| <b>MISO INDIANA HUB PEAK MONTH FUT (EM)</b>     |              |             |          |     |                 |                     |             |                 |
| EM  | Spec         | Mnth 1      | Increase | USD | 11,275          | 10,250              | 17,380      | 15,800          |
| EM  | Hedge/Member | Mnth 1      | Increase | USD | 10,250          | 10,250              | 15,800      | 15,800          |
| EM  | Spec         | Mnth 2      | Increase | USD | 4,950           | 4,500               | 14,410      | 13,100          |
| EM  | Hedge/Member | Mnth 2      | Increase | USD | 4,500           | 4,500               | 13,100      | 13,100          |
| EM  | Spec         | Mnth 12+    | Increase | USD | 2,475           | 2,250               | 3,300       | 3,000           |
| EM  | Hedge/Member | Mnth 12+    | Increase | USD | 2,250           | 2,250               | 3,000       | 3,000           |
| <b>MISO MICHIGAN HUB OF-PK DA MONTHLY (HMO)</b> |              |             |          |     |                 |                     |             |                 |
| HMO   | Spec         | Mnth 1      | Increase | USD | 22              | 20                  | 66          | 60              |
| HMO   | Hedge/Member | Mnth 1      | Increase | USD | 20              | 20                  | 60          | 60              |
| HMO   | Spec         | Mnths 2-6   | Increase | USD | 17              | 15                  | 33          | 30              |
| HMO   | Hedge/Member | Mnths 2-6   | Increase | USD | 15              | 15                  | 30          | 30              |
| HMO   | Spec         | Mnths 7-11  | Increase | USD | 17              | 15                  | 22          | 20              |
| HMO   | Hedge/Member | Mnths 7-11  | Increase | USD | 15              | 15                  | 20          | 20              |
| HMO   | Spec         | Mnths 12+   | Increase | USD | 17              | 15                  | 22          | 20              |
| HMO   | Hedge/Member | Mnths 12+   | Increase | USD | 15              | 15                  | 20          | 20              |
| <b>NEPOOL CONECTIC 5MW D AH PK (P2)</b>         |              |             |          |     |                 |                     |             |                 |
| P2  | Spec         | Mnth 1      | Increase | USD | 2,750           | 2,500               | 8,250       | 7,500           |
| P2  | Hedge/Member | Mnth 1      | Increase | USD | 2,500           | 2,500               | 7,500       | 7,500           |
| P2  | Spec         | Mnth 2      | Increase | USD | 2,475           | 2,250               | 7,425       | 6,750           |
| P2  | Hedge/Member | Mnth 2      | Increase | USD | 2,250           | 2,250               | 6,750       | 6,750           |
| P2  | Spec         | Mnths 6-11  | Increase | USD | 550             | 500                 | 1,430       | 1,300           |
| P2  | Hedge/Member | Mnths 6-11  | Increase | USD | 500             | 500                 | 1,300       | 1,300           |
| P2  | Spec         | Mnths +12   | Increase | USD | 660             | 600                 | 1,430       | 1,300           |
| P2  | Hedge/Member | Mnths +12   | Increase | USD | 600             | 600                 | 1,300       | 1,300           |
| <b>NEPOOL INTR HUB 5MW D AH O PK (H2)</b>       |              |             |          |     |                 |                     |             |                 |
| H2  | Spec         | Mnth 1      | Increase | USD | 110             | 100                 | 220         | 200             |
| H2  | Hedge/Member | Mnth 1      | Increase | USD | 100             | 100                 | 200         | 200             |
| H2  | Spec         | Mnth 2      | Increase | USD | 99              | 90                  | 209         | 190             |
| H2  | Hedge/Member | Mnth 2      | Increase | USD | 90              | 90                  | 190         | 190             |

## 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     | Increase | USD | 2,750           | 2,500               | 5,610       | 5,100           |
| U6  | Hedge/Member | Month 1     | Increase | USD | 2,500           | 2,500               | 5,100       | 5,100           |
| U6  | Spec         | Month 2     | Increase | USD | 2,475           | 2,250               | 5,500       | 5,000           |
| U6  | Hedge/Member | Month 2     | Increase | USD | 2,250           | 2,250               | 5,000       | 5,000           |
| U6  | Spec         | Mnths 12+   | Increase | USD | 825             | 750                 | 1,430       | 1,300           |
| U6  | Hedge/Member | Mnths 12+   | Increase | USD | 750             | 750                 | 1,300       | 1,300           |
| <b>NEPOOL MAINE 5MW D AH PK (P9)</b>      |              |             |          |     |                 |                     |             |                 |
| P9  | Spec         | Mnth 1      | Increase | USD | 5,775           | 5,250               | 11,000      | 10,000          |
| P9  | Hedge/Member | Mnth 1      | Increase | USD | 5,250           | 5,250               | 10,000      | 10,000          |
| P9  | Spec         | Mnth 2      | Increase | USD | 5,775           | 5,250               | 9,900       | 9,000           |
| P9  | Hedge/Member | Mnth 2      | Increase | USD | 5,250           | 5,250               | 9,000       | 9,000           |
| <b>NEPOOL NE MASS 5MW D AH O PK (P8)</b>  |              |             |          |     |                 |                     |             |                 |
| P8  | Spec         | Mnth 1      | Increase | USD | 110             | 100                 | 220         | 200             |
| P8  | Hedge/Member | Mnth 1      | Increase | USD | 100             | 100                 | 200         | 200             |
| P8  | Spec         | Mnth 2      | Increase | USD | 99              | 90                  | 209         | 190             |
| P8  | Hedge/Member | Mnth 2      | Increase | USD | 90              | 90                  | 190         | 190             |
| <b>NEPOOL NE MASS 5MW D AH PK (P7)</b>    |              |             |          |     |                 |                     |             |                 |
| P7  | Spec         | Mnth 1      | Increase | USD | 2,750           | 2,500               | 8,250       | 7,500           |
| P7  | Hedge/Member | Mnth 1      | Increase | USD | 2,500           | 2,500               | 7,500       | 7,500           |
| P7  | Spec         | Mnth 2      | Increase | USD | 2,475           | 2,250               | 7,425       | 6,750           |
| P7  | Hedge/Member | Mnth 2      | Increase | USD | 2,250           | 2,250               | 6,750       | 6,750           |
| P7  | Spec         | Mnths 12+   | Increase | USD | 825             | 750                 | 1,430       | 1,300           |
| P7  | Hedge/Member | Mnths 12+   | Increase | USD | 750             | 750                 | 1,300       | 1,300           |
| <b>NEPOOL NEW HAMP 5MW D AH O PK (U3)</b> |              |             |          |     |                 |                     |             |                 |
| U3  | Spec         | Mnth 1      | Increase | USD | 275             | 250                 | 495         | 450             |
| U3  | Hedge/Member | Mnth 1      | Increase | USD | 250             | 250                 | 450         | 450             |
| U3  | Spec         | Mnth 2      | Increase | USD | 110             | 100                 | 330         | 300             |
| U3  | Hedge/Member | Mnth 2      | Increase | USD | 100             | 100                 | 300         | 300             |
| <b>NEPOOL NEW HAMP 5MW D AH PK (U2)</b>   |              |             |          |     |                 |                     |             |                 |
| U2  | Spec         | Mnth 1      | Increase | USD | 2,750           | 2,500               | 8,250       | 7,500           |
| U2  | Hedge/Member | Mnth 1      | Increase | USD | 2,500           | 2,500               | 7,500       | 7,500           |
| U2  | Spec         | Mnth 2      | Increase | USD | 2,475           | 2,250               | 7,425       | 6,750           |
| U2  | Hedge/Member | Mnth 2      | Increase | USD | 2,250           | 2,250               | 6,750       | 6,750           |

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

| CC  | Rate Type    | Description | Change   | ISO | Current Initial | Current Maintenance | New Initial | New Maintenance |
|---|--------------|-------------|----------|-----|-----------------|---------------------|-------------|-----------------|
| <b>Outright Rates</b>                       |              |             |          |     |                 |                     |             |                 |
| <b>NEPOOL RHD ISLD 5MW D AH PK (U4)</b>     |              |             |          |     |                 |                     |             |                 |
| U4  | Spec         | Mnth 1      | Increase | USD | 2,475           | 2,250               | 7,425       | 6,750           |
| U4  | Hedge/Member | Mnth 1      | Increase | USD | 2,250           | 2,250               | 6,750       | 6,750           |
| U4  | Spec         | Mnth 2      | Increase | USD | 2,200           | 2,000               | 6,600       | 6,000           |
| U4  | Hedge/Member | Mnth 2      | Increase | USD | 2,000           | 2,000               | 6,000       | 6,000           |
| <b>NEPOOL RHODE IL 5MW D AH O PK (U5)</b>   |              |             |          |     |                 |                     |             |                 |
| U5  | Spec         | Mnth 1      | Increase | USD | 138             | 125                 | 275         | 250             |
| U5  | Hedge/Member | Mnth 1      | Increase | USD | 125             | 125                 | 250         | 250             |
| U5  | Spec         | Mnth 2      | Increase | USD | 110             | 100                 | 248         | 225             |
| U5  | Hedge/Member | Mnth 2      | Increase | USD | 100             | 100                 | 225         | 225             |
| <b>NEPOOL SE MASS 5MW D AH O PK (P5)</b>    |              |             |          |     |                 |                     |             |                 |
| P5  | Spec         | Mnth 1      | Increase | USD | 220             | 200                 | 330         | 300             |
| P5  | Hedge/Member | Mnth 1      | Increase | USD | 200             | 200                 | 300         | 300             |
| P5  | Spec         | Mnth 2      | Increase | USD | 99              | 90                  | 220         | 200             |
| P5  | Hedge/Member | Mnth 2      | Increase | USD | 90              | 90                  | 200         | 200             |
| <b>NEPOOL W CNT MASS 5MW D AH O PK (L9)</b> |              |             |          |     |                 |                     |             |                 |
| L9  | Spec         | Mnth 1      | Increase | USD | 110             | 100                 | 220         | 200             |
| L9  | Hedge/Member | Mnth 1      | Increase | USD | 100             | 100                 | 200         | 200             |
| L9  | Spec         | Mnth 2      | Increase | USD | 99              | 90                  | 209         | 190             |
| L9  | Hedge/Member | Mnth 2      | Increase | USD | 90              | 90                  | 190         | 190             |
| <b>NEPOOL W CNTR M 5MW D AH PK (R6)</b>     |              |             |          |     |                 |                     |             |                 |
| R6  | Spec         | Mnth 1      | Increase | USD | 5,500           | 5,000               | 11,000      | 10,000          |
| R6  | Hedge/Member | Mnth 1      | Increase | USD | 5,000           | 5,000               | 10,000      | 10,000          |
| R6  | Spec         | Mnth 2      | Increase | USD | 2,475           | 2,250               | 9,900       | 9,000           |
| R6  | Hedge/Member | Mnth 2      | Increase | USD | 2,250           | 2,250               | 9,000       | 9,000           |
| R6  | Spec         | Mnths +12   | Increase | USD | 660             | 600                 | 1,430       | 1,300           |
| R6  | Hedge/Member | Mnths +12   | Increase | USD | 600             | 600                 | 1,300       | 1,300           |
| <b>NEW ENGLAND HUB PEAK DAILY (CE)</b>      |              |             |          |     |                 |                     |             |                 |
| CE  | Spec         |             | Increase | USD | 10,560          | 9,600               | 22,000      | 20,000          |
| CE  | Hedge/Member |             | Increase | USD | 9,600           | 9,600               | 20,000      | 20,000          |
| <b>NORTHERN ILLINOIS HUB MONTHLY (UM)</b>   |              |             |          |     |                 |                     |             |                 |
| UM  | Spec         | Mnth 1      | Increase | USD | 44,000          | 40,000              | 77,000      | 70,000          |
| UM  | Hedge/Member | Mnth 1      | Increase | USD | 40,000          | 40,000              | 70,000      | 70,000          |
| UM  | Spec         | Mnth 2      | Increase | USD | 13,200          | 12,000              | 26,400      | 24,000          |
| UM  | Hedge/Member | Mnth 2      | Increase | USD | 12,000          | 12,000              | 24,000      | 24,000          |



## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

| CC   | Rate Type    | Description | Change   | ISO | Current Initial | Current Maintenance | New Initial | New Maintenance |
|--|--------------|-------------|----------|-----|-----------------|---------------------|-------------|-----------------|
| <b>Outright Rates</b>                          |              |             |          |     |                 |                     |             |                 |
| <b>NORTHERN ILLINOIS OFF-PEAK MONTHLY (UO)</b> |              |             |          |     |                 |                     |             |                 |
| UO   | Spec         | Mnth 1      | Increase | USD | 11,000          | 10,000              | 22,000      | 20,000          |
| UO   | Hedge/Member | Mnth 1      | Increase | USD | 10,000          | 10,000              | 20,000      | 20,000          |
| UO   | Spec         | Mnth 2      | Increase | USD | 9,900           | 9,000               | 22,000      | 20,000          |
| UO   | Hedge/Member | Mnth 2      | Increase | USD | 9,000           | 9,000               | 20,000      | 20,000          |
| UO   | Spec         | Mnths 3-11  | Increase | USD | 2,530           | 2,300               | 3,850       | 3,500           |
| UO   | Hedge/Member | Mnths 3-11  | Increase | USD | 2,300           | 2,300               | 3,500       | 3,500           |
| UO   | Spec         | Mnths 12+   | Increase | USD | 1,650           | 1,500               | 2,200       | 2,000           |
| UO   | Hedge/Member | Mnths 12+   | Increase | USD | 1,500           | 1,500               | 2,000       | 2,000           |
| <b>NYISO A (KA)</b>                            |              |             |          |     |                 |                     |             |                 |
| KA   | Spec         | Mnth 1      | Increase | USD | 7,150           | 6,500               | 21,450      | 19,500          |
| KA   | Hedge/Member | Mnth 1      | Increase | USD | 6,500           | 6,500               | 19,500      | 19,500          |
| KA   | Spec         | Mnth 2      | Increase | USD | 5,500           | 5,000               | 16,500      | 15,000          |
| KA   | Hedge/Member | Mnth 2      | Increase | USD | 5,000           | 5,000               | 15,000      | 15,000          |
| <b>NYISO A OFF-PEAK (KB)</b>                   |              |             |          |     |                 |                     |             |                 |
| KB   | Spec         | Mnth 1      | Increase | USD | 5,500           | 5,000               | 16,500      | 15,000          |
| KB   | Hedge/Member | Mnth 1      | Increase | USD | 5,000           | 5,000               | 15,000      | 15,000          |
| KB   | Spec         | Mnth 2      | Increase | USD | 4,950           | 4,500               | 14,850      | 13,500          |
| KB   | Hedge/Member | Mnth 2      | Increase | USD | 4,500           | 4,500               | 13,500      | 13,500          |
| <b>NYISO G (KG)</b>                            |              |             |          |     |                 |                     |             |                 |
| KG   | Spec         | Mnth 1      | Increase | USD | 8,800           | 8,000               | 26,400      | 24,000          |
| KG   | Hedge/Member | Mnth 1      | Increase | USD | 8,000           | 8,000               | 24,000      | 24,000          |
| KG   | Spec         | Mnth 2      | Increase | USD | 8,250           | 7,500               | 24,750      | 22,500          |
| KG   | Hedge/Member | Mnth 2      | Increase | USD | 7,500           | 7,500               | 22,500      | 22,500          |
| KG   | Spec         | Mnths 12+   | Increase | USD | 2,750           | 2,500               | 3,300       | 3,000           |
| KG   | Hedge/Member | Mnths 12+   | Increase | USD | 2,500           | 2,500               | 3,000       | 3,000           |
| <b>NYISO G OFF-PEAK (KH)</b>                   |              |             |          |     |                 |                     |             |                 |
| KH   | Spec         | Mnth 1      | Increase | USD | 9,350           | 8,500               | 28,050      | 25,500          |
| KH   | Hedge/Member | Mnth 1      | Increase | USD | 8,500           | 8,500               | 25,500      | 25,500          |
| KH   | Spec         | Mnth 2      | Increase | USD | 9,020           | 8,200               | 27,060      | 24,600          |
| KH   | Hedge/Member | Mnth 2      | Increase | USD | 8,200           | 8,200               | 24,600      | 24,600          |
| <b>NYISO J (KJ)</b>                            |              |             |          |     |                 |                     |             |                 |
| KJ   | Spec         | Mnth 1      | Increase | USD | 8,250           | 7,500               | 24,750      | 22,500          |
| KJ   | Hedge/Member | Mnth 1      | Increase | USD | 7,500           | 7,500               | 22,500      | 22,500          |
| KJ   | Spec         | Mnth 2      | Increase | USD | 7,700           | 7,000               | 23,100      | 21,000          |
| KJ   | Hedge/Member | Mnth 2      | Increase | USD | 7,000           | 7,000               | 21,000      | 21,000          |
| KJ   | Spec         | Mnths 12+   | Increase | USD | 3,025           | 2,750               | 3,850       | 3,500           |
| KJ   | Hedge/Member | Mnths 12+   | Increase | USD | 2,750           | 2,750               | 3,500       | 3,500           |

## 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      | Increase | USD | 8,800           | 8,000               | 26,400      | 24,000          |
| KK                                     | Hedge/Member | Mnth 1      | Increase | USD | 8,000           | 8,000               | 24,000      | 24,000          |
| KK                                     | Spec         | Mnth 2      | Increase | USD | 7,920           | 7,200               | 23,760      | 21,600          |
| KK                                     | Hedge/Member | Mnth 2      | Increase | USD | 7,200           | 7,200               | 21,600      | 21,600          |
| <b>NYISO ZONE A 5MW D AH O PK (K4)</b> |              |             |          |     |                 |                     |             |                 |
| K4                                     | Spec         | Mnth 1      | Increase | USD | 44              | 40                  | 132         | 120             |
| K4                                     | Hedge/Member | Mnth 1      | Increase | USD | 40              | 40                  | 120         | 120             |
| K4                                     | Spec         | Mnth 2      | Increase | USD | 28              | 25                  | 83          | 75              |
| K4                                     | Hedge/Member | Mnth 2      | Increase | USD | 25              | 25                  | 75          | 75              |
| K4                                     | Spec         | Mnths 3-11  | Increase | USD | 11              | 10                  | 22          | 20              |
| K4                                     | Hedge/Member | Mnths 3-11  | Increase | USD | 10              | 10                  | 20          | 20              |
| K4                                     | Spec         | Mnths 12+   | Increase | USD | 11              | 10                  | 22          | 20              |
| K4                                     | Hedge/Member | Mnths 12+   | Increase | USD | 10              | 10                  | 20          | 20              |
| <b>NYISO ZONE A 5MW D AH PK (K3)</b>   |              |             |          |     |                 |                     |             |                 |
| K3                                     | Spec         | Mnth 1      | Increase | USD | 1,430           | 1,300               | 4,290       | 3,900           |
| K3                                     | Hedge/Member | Mnth 1      | Increase | USD | 1,300           | 1,300               | 3,900       | 3,900           |
| K3                                     | Spec         | Mnth 2      | Increase | USD | 1,100           | 1,000               | 3,300       | 3,000           |
| K3                                     | Hedge/Member | Mnth 2      | Increase | USD | 1,000           | 1,000               | 3,000       | 3,000           |
| <b>NYISO ZONE A DA OP DAILY (ZAO)</b>  |              |             |          |     |                 |                     |             |                 |
| ZAO                                    | Spec         |             | Increase | USD | 132             | 120                 | 330         | 300             |
| ZAO                                    | Hedge/Member |             | Increase | USD | 120             | 120                 | 300         | 300             |
| <b>NYISO ZONE A LBMP FUT (AN)</b>      |              |             |          |     |                 |                     |             |                 |
| AN                                     | Spec         |             | Increase | USD | 6,600           | 6,000               | 19,800      | 18,000          |
| AN                                     | Hedge/Member |             | Increase | USD | 6,000           | 6,000               | 18,000      | 18,000          |
| <b>NYISO ZONE C 5MW D AH O PK (A3)</b> |              |             |          |     |                 |                     |             |                 |
| A3                                     | Spec         | Mnth 1      | Increase | USD | 55              | 50                  | 165         | 150             |
| A3                                     | Hedge/Member | Mnth 1      | Increase | USD | 50              | 50                  | 150         | 150             |
| A3                                     | Spec         | Mnth 2      | Increase | USD | 33              | 30                  | 99          | 90              |
| A3                                     | Hedge/Member | Mnth 2      | Increase | USD | 30              | 30                  | 90          | 90              |
| <b>NYISO ZONE C 5MW D AH PK (Q5)</b>   |              |             |          |     |                 |                     |             |                 |
| Q5                                     | Spec         | Mnth 1      | Increase | USD | 1,980           | 1,800               | 5,940       | 5,400           |
| Q5                                     | Hedge/Member | Mnth 1      | Increase | USD | 1,800           | 1,800               | 5,400       | 5,400           |
| Q5                                     | Spec         | Mnth 2      | Increase | USD | 880             | 800                 | 2,640       | 2,400           |
| Q5                                     | Hedge/Member | Mnth 2      | Increase | USD | 800             | 800                 | 2,400       | 2,400           |

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

| CC  | Rate Type    | Description | Change   | ISO | Current Initial | Current Maintenance | New Initial | New Maintenance |
|---|--------------|-------------|----------|-----|-----------------|---------------------|-------------|-----------------|
| <b>Outright Rates</b>                           |              |             |          |     |                 |                     |             |                 |
| <b>NYISO ZONE E 5MW OFF- PK CAL MO FUT (58)</b> |              |             |          |     |                 |                     |             |                 |
| 58  | Spec         | Mnth 1      | Increase | USD | 264             | 240                 | 792         | 720             |
| 58  | Hedge/Member | Mnth 1      | Increase | USD | 240             | 240                 | 720         | 720             |
| 58  | Spec         | Mnths 2-6   | Increase | USD | 88              | 80                  | 264         | 240             |
| 58  | Hedge/Member | Mnths 2-6   | Increase | USD | 80              | 80                  | 240         | 240             |
| <b>NYISO ZONE E 5MW PK CAL MO FUT (55)</b>      |              |             |          |     |                 |                     |             |                 |
| 55  | Spec         | Mnth 1      | Increase | USD | 4,400           | 4,000               | 13,200      | 12,000          |
| 55  | Hedge/Member | Mnth 1      | Increase | USD | 4,000           | 4,000               | 12,000      | 12,000          |
| 55  | Spec         | Mnths 2-6   | Increase | USD | 2,310           | 2,100               | 6,930       | 6,300           |
| 55  | Hedge/Member | Mnths 2-6   | Increase | USD | 2,100           | 2,100               | 6,300       | 6,300           |
| <b>NYISO ZONE F 5MW O PK FUT (4M)</b>           |              |             |          |     |                 |                     |             |                 |
| 4M  | Spec         | Mnth 1      | Increase | USD | 88              | 80                  | 171         | 155             |
| 4M  | Hedge/Member | Mnth 1      | Increase | USD | 80              | 80                  | 155         | 155             |
| 4M  | Spec         | Mnth 2      | Increase | USD | 88              | 80                  | 149         | 135             |
| 4M  | Hedge/Member | Mnth 2      | Increase | USD | 80              | 80                  | 135         | 135             |
| <b>NYISO ZONE F 5MW PK FUT (4L)</b>             |              |             |          |     |                 |                     |             |                 |
| 4L  | Spec         | Mnth 1      | Increase | USD | 2,200           | 2,000               | 3,300       | 3,000           |
| 4L  | Hedge/Member | Mnth 1      | Increase | USD | 2,000           | 2,000               | 3,000       | 3,000           |
| 4L  | Spec         | Mnth 2      | Increase | USD | 2,200           | 2,000               | 3,190       | 2,900           |
| 4L  | Hedge/Member | Mnth 2      | Increase | USD | 2,000           | 2,000               | 2,900       | 2,900           |
| <b>NYISO ZONE G 5MW D AH O PK (D2)</b>          |              |             |          |     |                 |                     |             |                 |
| D2  | Spec         | Mnth 1      | Increase | USD | 66              | 60                  | 198         | 180             |
| D2  | Hedge/Member | Mnth 1      | Increase | USD | 60              | 60                  | 180         | 180             |
| D2  | Spec         | Mnth 2      | Increase | USD | 55              | 50                  | 165         | 150             |
| D2  | Hedge/Member | Mnth 2      | Increase | USD | 50              | 50                  | 150         | 150             |
| <b>NYISO ZONE G 5MW D AH PK (T3)</b>            |              |             |          |     |                 |                     |             |                 |
| T3  | Spec         | Mnth 1      | Increase | USD | 1,760           | 1,600               | 5,280       | 4,800           |
| T3  | Hedge/Member | Mnth 1      | Increase | USD | 1,600           | 1,600               | 4,800       | 4,800           |
| T3  | Spec         | Mnth 2      | Increase | USD | 1,650           | 1,500               | 4,950       | 4,500           |
| T3  | Hedge/Member | Mnth 2      | Increase | USD | 1,500           | 1,500               | 4,500       | 4,500           |
| T3  | Spec         | Mnths 12+   | Increase | USD | 550             | 500                 | 660         | 600             |
| T3  | Hedge/Member | Mnths 12+   | Increase | USD | 500             | 500                 | 600         | 600             |
| <b>NYISO ZONE G DA OP DAILY (ZGO)</b>           |              |             |          |     |                 |                     |             |                 |
| ZGO   | Spec         |             | Increase | USD | 286             | 260                 | 605         | 550             |
| ZGO   | Hedge/Member |             | Increase | USD | 260             | 260                 | 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>NYISO ZONE J 5MW D AH O PK (D4)</b>      |              |             |          |     |                 |                     |             |                 |
| D4  | Spec         | Mnth 1      | Increase | USD | 55              | 50                  | 165         | 150             |
| D4  | Hedge/Member | Mnth 1      | Increase | USD | 50              | 50                  | 150         | 150             |
| D4  | Spec         | Mnth 2      | Increase | USD | 44              | 40                  | 132         | 120             |
| D4  | Hedge/Member | Mnth 2      | Increase | USD | 40              | 40                  | 120         | 120             |
| <b>NYISO ZONE J 5MW D AH PK (D3)</b>        |              |             |          |     |                 |                     |             |                 |
| D3  | Spec         | Mnth 1      | Increase | USD | 1,650           | 1,500               | 4,950       | 4,500           |
| D3  | Hedge/Member | Mnth 1      | Increase | USD | 1,500           | 1,500               | 4,500       | 4,500           |
| D3  | Spec         | Mnth 2      | Increase | USD | 1,540           | 1,400               | 4,620       | 4,200           |
| D3  | Hedge/Member | Mnth 2      | Increase | USD | 1,400           | 1,400               | 4,200       | 4,200           |
| D3  | Spec         | Mnths 12+   | Increase | USD | 605             | 550                 | 770         | 700             |
| D3  | Hedge/Member | Mnths 12+   | Increase | USD | 550             | 550                 | 700         | 700             |
| <b>NYISO ZONE J DA OP DAILY (ZJO)</b>       |              |             |          |     |                 |                     |             |                 |
| ZJO   | Spec         |             | Increase | USD | 132             | 120                 | 396         | 360             |
| ZJO   | Hedge/Member |             | Increase | USD | 120             | 120                 | 360         | 360             |
| <b>ONTARIO OFF-PK CAL-MO FUTURES (OFM)</b>  |              |             |          |     |                 |                     |             |                 |
| OFM   | Spec         | Mnth 1      | Increase | CAD | 33              | 30                  | 50          | 45              |
| OFM   | Hedge/Member | Mnth 1      | Increase | CAD | 30              | 30                  | 45          | 45              |
| OFM   | Spec         | Mnth 2-6    | Increase | CAD | 22              | 20                  | 33          | 30              |
| OFM   | Hedge/Member | Mnth 2-6    | Increase | CAD | 20              | 20                  | 30          | 30              |
| <b>ONTARIO PEAK CAL-DAY FUTURES (OPD)</b>   |              |             |          |     |                 |                     |             |                 |
| OPD   | Spec         |             | Increase | CAD | 3,850           | 3,500               | 5,500       | 5,000           |
| OPD   | Hedge/Member |             | Increase | CAD | 3,500           | 3,500               | 5,000       | 5,000           |
| <b>ONTARIO PEAK CAL-MONTH FUTURES (OPM)</b> |              |             |          |     |                 |                     |             |                 |
| OPM   | Spec         | Mnth 1      | Increase | CAD | 715             | 650                 | 1,650       | 1,500           |
| OPM   | Hedge/Member | Mnth 1      | Increase | CAD | 650             | 650                 | 1,500       | 1,500           |
| <b>PJM ASTI ZONE PEAK DA MO (MOD)</b>       |              |             |          |     |                 |                     |             |                 |
| MOD   | Spec         | Mnth 1      | Increase | USD | 77              | 70                  | 132         | 120             |
| MOD   | Hedge/Member | Mnth 1      | Increase | USD | 70              | 70                  | 120         | 120             |
| MOD   | Spec         | Mnths 2-3   | Increase | USD | 33              | 30                  | 99          | 90              |
| MOD   | Hedge/Member | Mnths 2-3   | Increase | USD | 30              | 30                  | 90          | 90              |
| MOD   | Spec         | Mnths 4-12  | Increase | USD | 17              | 15                  | 22          | 20              |
| MOD   | Hedge/Member | Mnths 4-12  | Increase | USD | 15              | 15                  | 20          | 20              |

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

| CC                                       | Rate Type    | Description | Change   | ISO | Current Initial | Current Maintenance | New Initial | New Maintenance |
|--|--------------|-------------|----------|-----|-----------------|---------------------|-------------|-----------------|
| <b>Outright Rates</b>                    |              |             |          |     |                 |                     |             |                 |
| <b>PJM DAILY (JD)</b>                    |              |             |          |     |                 |                     |             |                 |
| JD                                       | Spec         | Days 1-6    | Increase | USD | 26,400          | 24,000              | 38,500      | 35,000          |
| JD                                       | Hedge/Member | Days 1-6    | Increase | USD | 24,000          | 24,000              | 35,000      | 35,000          |
| JD                                       | Spec         | Days 7-14   | Increase | USD | 7,040           | 6,400               | 23,100      | 21,000          |
| JD                                       | Hedge/Member | Days 7-14   | Increase | USD | 6,400           | 6,400               | 21,000      | 21,000          |
| JD                                       | Spec         | Days 15+    | Increase | USD | 4,840           | 4,400               | 19,800      | 18,000          |
| JD                                       | Hedge/Member | Days 15+    | Increase | USD | 4,400           | 4,400               | 18,000      | 18,000          |
| <b>PJM MONTHLY (JM)</b>                  |              |             |          |     |                 |                     |             |                 |
| JM                                       | Spec         | Mnth 1      | Increase | USD | 66,000          | 60,000              | 132,000     | 120,000         |
| JM                                       | Hedge/Member | Mnth 1      | Increase | USD | 60,000          | 60,000              | 120,000     | 120,000         |
| JM                                       | Spec         | Mnth 2      | Increase | USD | 22,000          | 20,000              | 55,000      | 50,000          |
| JM                                       | Hedge/Member | Mnth 2      | Increase | USD | 20,000          | 20,000              | 50,000      | 50,000          |
| JM                                       | Spec         | Mnths 3-11  | Increase | USD | 3,850           | 3,500               | 6,050       | 5,500           |
| JM                                       | Hedge/Member | Mnths 3-11  | Increase | USD | 3,500           | 3,500               | 5,500       | 5,500           |
| JM                                       | Spec         | Mnths 12-23 | Increase | USD | 3,300           | 3,000               | 4,950       | 4,500           |
| JM                                       | Hedge/Member | Mnths 12-23 | Increase | USD | 3,000           | 3,000               | 4,500       | 4,500           |
| JM                                       | Spec         | Mnths 24+   | Increase | USD | 2,750           | 2,500               | 3,850       | 3,500           |
| JM                                       | Hedge/Member | Mnths 24+   | Increase | USD | 2,500           | 2,500               | 3,500       | 3,500           |
| <b>PJM OFF-PEAK LMP FUT (JP)</b>         |              |             |          |     |                 |                     |             |                 |
| JP                                       | Spec         | Mnth 1      | Increase | USD | 12,100          | 11,000              | 27,500      | 25,000          |
| JP                                       | Hedge/Member | Mnth 1      | Increase | USD | 11,000          | 11,000              | 25,000      | 25,000          |
| JP                                       | Spec         | Mnth 2      | Increase | USD | 11,000          | 10,000              | 27,500      | 25,000          |
| JP                                       | Hedge/Member | Mnth 2      | Increase | USD | 10,000          | 10,000              | 25,000      | 25,000          |
| JP                                       | Spec         | Mnths 3-11  | Increase | USD | 1,650           | 1,500               | 3,300       | 3,000           |
| JP                                       | Hedge/Member | Mnths 3-11  | Increase | USD | 1,500           | 1,500               | 3,000       | 3,000           |
| <b>PJM PPL DA OFF-PEAK (F5)</b>          |              |             |          |     |                 |                     |             |                 |
| F5                                       | Spec         | Mnth 1      | Increase | USD | 138             | 125                 | 385         | 350             |
| F5                                       | Hedge/Member | Mnth 1      | Increase | USD | 125             | 125                 | 350         | 350             |
| F5                                       | Spec         | Mnth 2      | Increase | USD | 55              | 50                  | 165         | 150             |
| F5                                       | Hedge/Member | Mnth 2      | Increase | USD | 50              | 50                  | 150         | 150             |
| F5                                       | Spec         | Mnths 3-11  | Increase | USD | 28              | 25                  | 39          | 35              |
| F5                                       | Hedge/Member | Mnths 3-11  | Increase | USD | 25              | 25                  | 35          | 35              |
| <b>PJM WESTERN HUB RT OP DAILY (WOR)</b> |              |             |          |     |                 |                     |             |                 |
| WOR                                      | Spec         |             | Increase | USD | 825             | 750                 | 2,200       | 2,000           |
| WOR                                      | Hedge/Member |             | Increase | USD | 750             | 750                 | 2,000       | 2,000           |

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

| CC   | Rate Type    | Description     | Change   | ISO | Current Initial | Current Maintenance | New Initial | New Maintenance |
|--|--------------|-----------------|----------|-----|-----------------|---------------------|-------------|-----------------|
| <b>Outright Rates</b>                            |              |                 |          |     |                 |                     |             |                 |
| <b>FREIGHT - Outright Rates</b>                  |              |                 |          |     |                 |                     |             |                 |
| <b>FREIGHT ROUTE TC14 (BALTIC) FUTURES (FRC)</b> |              |                 |          |     |                 |                     |             |                 |
| FRC  | Spec         | Mnth 1          | Increase | USD | 4,400           | 4,000               | 8,800       | 8,000           |
| FRC  | Hedge/Member | Mnth 1          | Increase | USD | 4,000           | 4,000               | 8,000       | 8,000           |
| FRC  | Spec         | Mnths 2+        | Increase | USD | 4,400           | 4,000               | 8,800       | 8,000           |
| FRC  | Hedge/Member | Mnths 2+        | Increase | USD | 4,000           | 4,000               | 8,000       | 8,000           |
| <b>FX - Outright Rates</b>                       |              |                 |          |     |                 |                     |             |                 |
| <b>EC/CD CROSS RATE FUTURE (CC)</b>              |              |                 |          |     |                 |                     |             |                 |
| CC   | Spec         |                 | Increase | CAD | 2,200           | 2,000               | 3,080       | 2,800           |
| CC   | Hedge/Member |                 | Increase | CAD | 2,000           | 2,000               | 2,800       | 2,800           |
| <b>EURO/TURKISH LIRA FUTURES (TRE)</b>           |              |                 |          |     |                 |                     |             |                 |
| TRE  | Spec         |                 | Increase | TRY | 12,100          | 11,000              | 13,750      | 12,500          |
| TRE  | Hedge/Member |                 | Increase | TRY | 11,000          | 11,000              | 12,500      | 12,500          |
| <b>RU RUSSIAN RUBLE FUTURES (RU)</b>             |              |                 |          |     |                 |                     |             |                 |
| RU   | Spec         | Jan 16 - Dec 16 | Increase | USD | 7,084           | 6,440               | 8,250       | 7,500           |
| RU   | Hedge/Member | Jan 16 - Dec 16 | Increase | USD | 6,440           | 6,440               | 7,500       | 7,500           |
| RU   | Spec         | Jan 17+         | Increase | USD | 8,580           | 7,800               | 9,680       | 8,800           |
| RU   | Hedge/Member | Jan 17+         | Increase | USD | 7,800           | 7,800               | 8,800       | 8,800           |

## 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>ANR OKLAHOMA (NE)</b>                    |              |             |          |     |                 |                     |             |                 |
| NE  | Spec         | Mnth 1      | Increase | USD | 297             | 270                 | 341         | 310             |
| NE  | Hedge/Member | Mnth 1      | Increase | USD | 270             | 270                 | 310         | 310             |
| NE  | Spec         | Mnth 6+     | Increase | USD | 220             | 200                 | 264         | 240             |
| NE  | Hedge/Member | Mnth 6+     | Increase | USD | 200             | 200                 | 240         | 240             |
| <b>CENTERPOINT EAST INDEX (II)</b>          |              |             |          |     |                 |                     |             |                 |
| II  | Spec         | Mnth 1-2    | Increase | USD | 825             | 750                 | 1,100       | 1,000           |
| II  | Hedge/Member | Mnth 1-2    | Increase | USD | 750             | 750                 | 1,000       | 1,000           |
| <b>CENTERPOINT, EAST SWING FUT (VX)</b>     |              |             |          |     |                 |                     |             |                 |
| VX  | Spec         | All Months  | Increase | USD | 825             | 750                 | 1,100       | 1,000           |
| VX  | Hedge/Member | All Months  | Increase | USD | 750             | 750                 | 1,000       | 1,000           |
| <b>COLUMB GULF MAINLINE NG BASIS (5Z)</b>   |              |             |          |     |                 |                     |             |                 |
| 5Z  | Spec         | Mnths 2+    | Increase | USD | 44              | 40                  | 50          | 45              |
| 5Z  | Hedge/Member | Mnths 2+    | Increase | USD | 40              | 40                  | 45          | 45              |
| <b>COLUMBIA GAS TCO (IFERC) FIXED (CFS)</b> |              |             |          |     |                 |                     |             |                 |
| CFS   | Spec         | Mnth 1      | Increase | USD | 770             | 700                 | 1,100       | 1,000           |
| CFS   | Hedge/Member | Mnth 1      | Increase | USD | 700             | 700                 | 1,000       | 1,000           |
| CFS   | Spec         | Mnths 2+    | Increase | USD | 770             | 700                 | 1,100       | 1,000           |
| CFS   | Hedge/Member | Mnths 2+    | Increase | USD | 700             | 700                 | 1,000       | 1,000           |
| <b>COLUMBIA GULF NAT GAS SWING FUT (X2)</b> |              |             |          |     |                 |                     |             |                 |
| X2  | Spec         |             | Increase | USD | 770             | 700                 | 1,100       | 1,000           |
| X2  | Hedge/Member |             | Increase | USD | 700             | 700                 | 1,000       | 1,000           |
| <b>COLUMBIA GULF ONSHORE BASIS FUT (GL)</b> |              |             |          |     |                 |                     |             |                 |
| GL  | Spec         | Mnth 1      | Increase | USD | 83              | 75                  | 220         | 200             |
| GL  | Hedge/Member | Mnth 1      | Increase | USD | 75              | 75                  | 200         | 200             |
| GL  | Spec         | Mnth 2      | Increase | USD | 55              | 50                  | 220         | 200             |
| GL  | Hedge/Member | Mnth 2      | Increase | USD | 50              | 50                  | 200         | 200             |
| GL  | Spec         | Mnths 3+    | Increase | USD | 55              | 50                  | 220         | 200             |
| GL  | Hedge/Member | Mnths 3+    | Increase | USD | 50              | 50                  | 200         | 200             |
| <b>EL PASO, PERMIAN SWING FUTURE (SL)</b>   |              |             |          |     |                 |                     |             |                 |
| SL  | Spec         |             | Increase | USD | 957             | 870                 | 1,100       | 1,000           |
| SL  | Hedge/Member |             | Increase | USD | 870             | 870                 | 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>E-MINI NATURAL GAS FUTURES (QG)</b>         |              |             |          |     |                 |                     |             |                 |
| QG   | Spec         | Mth 1       | Increase | USD | 990             | 900                 | 1,251       | 1,138           |
| QG   | Hedge/Member | Mth 1       | Increase | USD | 900             | 900                 | 1,138       | 1,138           |
| QG   | Spec         | Summer 2014 | Increase | USD | 509             | 463                 | 550         | 500             |
| QG   | Hedge/Member | Summer 2014 | Increase | USD | 463             | 463                 | 500         | 500             |
| <b>FLORIDA GAS ZONE 2 NAT GA SWING (X5)</b>    |              |             |          |     |                 |                     |             |                 |
| X5   | Spec         |             | Increase | USD | 825             | 750                 | 1,100       | 1,000           |
| X5   | Hedge/Member |             | Increase | USD | 750             | 750                 | 1,000       | 1,000           |
| <b>FLORIDA GAS ZONE3 BASIS FUT (FP)</b>        |              |             |          |     |                 |                     |             |                 |
| FP   | Spec         | Mnth 1      | Increase | USD | 149             | 135                 | 220         | 200             |
| FP   | Hedge/Member | Mnth 1      | Increase | USD | 135             | 135                 | 200         | 200             |
| FP   | Spec         | Mnth 2      | Increase | USD | 132             | 120                 | 209         | 190             |
| FP   | Hedge/Member | Mnth 2      | Increase | USD | 120             | 120                 | 190         | 190             |
| FP   | Spec         | Mnths 3-6   | Increase | USD | 132             | 120                 | 198         | 180             |
| FP   | Hedge/Member | Mnths 3-6   | Increase | USD | 120             | 120                 | 180         | 180             |
| FP   | Spec         | Mnths 7-12  | Increase | USD | 154             | 140                 | 198         | 180             |
| FP   | Hedge/Member | Mnths 7-12  | Increase | USD | 140             | 140                 | 180         | 180             |
| FP   | Spec         | Mnths 13+   | Increase | USD | 154             | 140                 | 198         | 180             |
| FP   | Hedge/Member | Mnths 13+   | Increase | USD | 140             | 140                 | 180         | 180             |
| <b>HENRY HUB FUT (NN)</b>                      |              |             |          |     |                 |                     |             |                 |
| NN   | Spec         | Mth 1       | Increase | USD | 990             | 900                 | 1,251       | 1,138           |
| NN   | Hedge/Member | Mth 1       | Increase | USD | 900             | 900                 | 1,138       | 1,138           |
| NN   | Spec         | Summer 2014 | Increase | USD | 509             | 463                 | 550         | 500             |
| NN   | Hedge/Member | Summer 2014 | Increase | USD | 463             | 463                 | 500         | 500             |
| <b>HENRY HUB FUT TRADE AT SETTLEMENT (NNT)</b> |              |             |          |     |                 |                     |             |                 |
| NNT  | Spec         | Mth 1       | Increase | USD | 990             | 900                 | 1,251       | 1,138           |
| NNT  | Hedge/Member | Mth 1       | Increase | USD | 900             | 900                 | 1,138       | 1,138           |
| NNT  | Spec         | Summer 2014 | Increase | USD | 509             | 463                 | 550         | 500             |
| NNT  | Hedge/Member | Summer 2014 | Increase | USD | 463             | 463                 | 500         | 500             |
| <b>HENRY HUB INDEX FUT (IN)</b>                |              |             |          |     |                 |                     |             |                 |
| IN   | Spec         | Mnth 1-2    | Increase | USD | 704             | 640                 | 924         | 840             |
| IN   | Hedge/Member | Mnth 1-2    | Increase | USD | 640             | 640                 | 840         | 840             |
| <b>HENRY HUB NAT GAS LAST DAY DELV (MNG)</b>   |              |             |          |     |                 |                     |             |                 |
| MNG  | Spec         | Mth 1       | Increase | USD | 990             | 900                 | 1,251       | 1,138           |
| MNG  | Hedge/Member | Mth 1       | Increase | USD | 900             | 900                 | 1,138       | 1,138           |
| MNG  | Spec         | Summer 2014 | Increase | USD | 509             | 463                 | 550         | 500             |
| MNG  | Hedge/Member | Summer 2014 | Increase | USD | 463             | 463                 | 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>HENRY HUB PENULTIMATE (NP)</b>             |              |             |          |     |                 |                     |             |                 |
| NP  | Spec         | Mth 1       | Increase | USD | 990             | 900                 | 1,251       | 1,138           |
| NP  | Hedge/Member | Mth 1       | Increase | USD | 900             | 900                 | 1,138       | 1,138           |
| NP  | Spec         | Summer 2014 | Increase | USD | 509             | 463                 | 550         | 500             |
| NP  | Hedge/Member | Summer 2014 | Increase | USD | 463             | 463                 | 500         | 500             |
| <b>HENRY HUB SWING FUTURE (SN)</b>            |              |             |          |     |                 |                     |             |                 |
| SN  | Spec         | All Months  | Increase | USD | 704             | 640                 | 990         | 900             |
| SN  | Hedge/Member | All Months  | Increase | USD | 640             | 640                 | 900         | 900             |
| <b>HH TAS NYMEX NATURAL GAS FUTURES (HHT)</b> |              |             |          |     |                 |                     |             |                 |
| HHT   | Spec         | Mth 1       | Increase | USD | 3,960           | 3,600               | 5,005       | 4,550           |
| HHT   | Hedge/Member | Mth 1       | Increase | USD | 3,600           | 3,600               | 4,550       | 4,550           |
| HHT   | Spec         | Summer 2014 | Increase | USD | 2,035           | 1,850               | 2,200       | 2,000           |
| HHT   | Hedge/Member | Summer 2014 | Increase | USD | 1,850           | 1,850               | 2,000       | 2,000           |
| <b>HOUSTON SHIP CHANNEL PIPE FUT (XJ)</b>     |              |             |          |     |                 |                     |             |                 |
| XJ  | Spec         |             | Increase | USD | 715             | 650                 | 990         | 900             |
| XJ  | Hedge/Member |             | Increase | USD | 650             | 650                 | 900         | 900             |
| <b>HOUSTON SHIP CHANNEL SWING (SM)</b>        |              |             |          |     |                 |                     |             |                 |
| SM  | Spec         | All Months  | Increase | USD | 715             | 650                 | 990         | 900             |
| SM  | Hedge/Member | All Months  | Increase | USD | 650             | 650                 | 900         | 900             |
| <b>NATURAL GAS HENRY HUB FUTURE (NG)</b>      |              |             |          |     |                 |                     |             |                 |
| NG  | Spec         | Mth 1       | Increase | USD | 3,960           | 3,600               | 5,005       | 4,550           |
| NG  | Hedge/Member | Mth 1       | Increase | USD | 3,600           | 3,600               | 4,550       | 4,550           |
| NG  | Spec         | Summer 2014 | Increase | USD | 2,035           | 1,850               | 2,200       | 2,000           |
| NG  | Hedge/Member | Summer 2014 | Increase | USD | 1,850           | 1,850               | 2,000       | 2,000           |
| <b>NATURAL GAS TRADE AT SETTLEMENT (NGT)</b>  |              |             |          |     |                 |                     |             |                 |
| NGT   | Spec         | Mth 1       | Increase | USD | 3,960           | 3,600               | 5,005       | 4,550           |
| NGT   | Hedge/Member | Mth 1       | Increase | USD | 3,600           | 3,600               | 4,550       | 4,550           |
| NGT   | Spec         | Summer 2014 | Increase | USD | 2,035           | 1,850               | 2,200       | 2,000           |
| NGT   | Hedge/Member | Summer 2014 | Increase | USD | 1,850           | 1,850               | 2,000       | 2,000           |

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

| CC  | Rate Type    | Description | Change   | ISO | Current Initial | Current Maintenance | New Initial | New Maintenance |
|---|--------------|-------------|----------|-----|-----------------|---------------------|-------------|-----------------|
| <b>Outright Rates</b>                         |              |             |          |     |                 |                     |             |                 |
| <b>NGPL MIDCONTINENT BASIS FUT (NL)</b>       |              |             |          |     |                 |                     |             |                 |
| NL  | Spec         | Mnth 1      | Increase | USD | 209             | 190                 | 231         | 210             |
| NL  | Hedge/Member | Mnth 1      | Increase | USD | 190             | 190                 | 210         | 210             |
| NL  | Spec         | Mnth 2      | Increase | USD | 198             | 180                 | 231         | 210             |
| NL  | Hedge/Member | Mnth 2      | Increase | USD | 180             | 180                 | 210         | 210             |
| NL  | Spec         | Mnths 3-6   | Increase | USD | 149             | 135                 | 330         | 300             |
| NL  | Hedge/Member | Mnths 3-6   | Increase | USD | 135             | 135                 | 300         | 300             |
| NL  | Spec         | Mnths 7-12  | Increase | USD | 165             | 150                 | 330         | 300             |
| NL  | Hedge/Member | Mnths 7-12  | Increase | USD | 150             | 150                 | 300         | 300             |
| NL  | Spec         | Mnths 13+   | Increase | USD | 396             | 360                 | 506         | 460             |
| NL  | Hedge/Member | Mnths 13+   | Increase | USD | 360             | 360                 | 460         | 460             |
| <b>NORTHERN ROCKIES PIPE FUT (XR)</b>         |              |             |          |     |                 |                     |             |                 |
| XR  | Spec         |             | Increase | USD | 770             | 700                 | 1,320       | 1,200           |
| XR  | Hedge/Member |             | Increase | USD | 700             | 700                 | 1,200       | 1,200           |
| <b>NORTHWEST PIPELINE BASIS FUT (NR)</b>      |              |             |          |     |                 |                     |             |                 |
| NR  | Spec         | Mnth 1      | Increase | USD | 220             | 200                 | 330         | 300             |
| NR  | Hedge/Member | Mnth 1      | Increase | USD | 200             | 200                 | 300         | 300             |
| NR  | Spec         | Mnths 2-6   | Increase | USD | 182             | 165                 | 220         | 200             |
| NR  | Hedge/Member | Mnths 2-6   | Increase | USD | 165             | 165                 | 200         | 200             |
| <b>NYMEX NATURAL GAS (H.HUB LTD) FUT (HH)</b> |              |             |          |     |                 |                     |             |                 |
| HH  | Spec         | Mth 1       | Increase | USD | 3,960           | 3,600               | 5,005       | 4,550           |
| HH  | Hedge/Member | Mth 1       | Increase | USD | 3,600           | 3,600               | 4,550       | 4,550           |
| HH  | Spec         | Summer 2014 | Increase | USD | 2,035           | 1,850               | 2,200       | 2,000           |
| HH  | Hedge/Member | Summer 2014 | Increase | USD | 1,850           | 1,850               | 2,000       | 2,000           |
| <b>NYMEX NATURAL GAS FUTURES (HP)</b>         |              |             |          |     |                 |                     |             |                 |
| HP  | Spec         | Mth 1       | Increase | USD | 3,960           | 3,600               | 5,005       | 4,550           |
| HP  | Hedge/Member | Mth 1       | Increase | USD | 3,600           | 3,600               | 4,550       | 4,550           |
| HP  | Spec         | Summer 2014 | Increase | USD | 2,035           | 1,850               | 2,200       | 2,000           |
| HP  | Hedge/Member | Summer 2014 | Increase | USD | 1,850           | 1,850               | 2,000       | 2,000           |
| <b>PANHANDLE PIPE FUT (XH)</b>                |              |             |          |     |                 |                     |             |                 |
| XH  | Spec         | Mnth 1      | Increase | USD | 715             | 650                 | 1,100       | 1,000           |
| XH  | Hedge/Member | Mnth 1      | Increase | USD | 650             | 650                 | 1,000       | 1,000           |
| XH  | Spec         | Mnths 2+    | Increase | USD | 715             | 650                 | 990         | 900             |
| XH  | Hedge/Member | Mnths 2+    | Increase | USD | 650             | 650                 | 900         | 900             |
| <b>PANHANDLE SWING FUTURE (SV)</b>            |              |             |          |     |                 |                     |             |                 |
| SV  | Spec         |             | Increase | USD | 880             | 800                 | 1,100       | 1,000           |
| SV  | Hedge/Member |             | Increase | USD | 800             | 800                 | 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>PGE CITYGATE NAT GAS FIXD PRICE FUT (XQ)</b> |              |             |          |     |                 |                     |             |                 |
| XQ  | Spec         |             | Increase | USD | 792             | 720                 | 1,100       | 1,000           |
| XQ  | Hedge/Member |             | Increase | USD | 720             | 720                 | 1,000       | 1,000           |
| <b>SAN JUAN BASIS FUT (NJ)</b>                  |              |             |          |     |                 |                     |             |                 |
| NJ  | Spec         | Mths 1      | Increase | USD | 198             | 180                 | 253         | 230             |
| NJ  | Hedge/Member | Mths 1      | Increase | USD | 180             | 180                 | 230         | 230             |
| NJ  | Spec         | Mths 2      | Increase | USD | 165             | 150                 | 242         | 220             |
| NJ  | Hedge/Member | Mths 2      | Increase | USD | 150             | 150                 | 220         | 220             |
| <b>SAN JUAN PIPE FUT (XX)</b>                   |              |             |          |     |                 |                     |             |                 |
| XX  | Spec         |             | Increase | USD | 770             | 700                 | 1,100       | 1,000           |
| XX  | Hedge/Member |             | Increase | USD | 700             | 700                 | 1,000       | 1,000           |
| <b>SOCAL BASIS FUT (NS)</b>                     |              |             |          |     |                 |                     |             |                 |
| NS  | Spec         | Mnth 1      | Increase | USD | 187             | 170                 | 358         | 325             |
| NS  | Hedge/Member | Mnth 1      | Increase | USD | 170             | 170                 | 325         | 325             |
| NS  | Spec         | Mnth 2      | Increase | USD | 127             | 115                 | 209         | 190             |
| NS  | Hedge/Member | Mnth 2      | Increase | USD | 115             | 115                 | 190         | 190             |
| NS  | Spec         | Mnth 3-6    | Increase | USD | 127             | 115                 | 182         | 165             |
| NS  | Hedge/Member | Mnth 3-6    | Increase | USD | 115             | 115                 | 165         | 165             |
| NS  | Spec         | Mnth 7-12   | Increase | USD | 127             | 115                 | 149         | 135             |
| NS  | Hedge/Member | Mnth 7-12   | Increase | USD | 115             | 115                 | 135         | 135             |
| NS  | Spec         | Mnth 13+    | Increase | USD | 127             | 115                 | 149         | 135             |
| NS  | Hedge/Member | Mnth 13+    | Increase | USD | 115             | 115                 | 135         | 135             |
| <b>SOCAL PIPE FUT (XN)</b>                      |              |             |          |     |                 |                     |             |                 |
| XN  | Spec         | Mnth 1      | Increase | USD | 880             | 800                 | 1,210       | 1,100           |
| XN  | Hedge/Member | Mnth 1      | Increase | USD | 800             | 800                 | 1,100       | 1,100           |
| XN  | Spec         | Mnth 2      | Increase | USD | 770             | 700                 | 1,100       | 1,000           |
| XN  | Hedge/Member | Mnth 2      | Increase | USD | 700             | 700                 | 1,000       | 1,000           |
| XN  | Spec         | Mnths 3-6   | Increase | USD | 660             | 600                 | 770         | 700             |
| XN  | Hedge/Member | Mnths 3-6   | Increase | USD | 600             | 600                 | 700         | 700             |
| XN  | Spec         | Mnths 7-12  | Increase | USD | 550             | 500                 | 660         | 600             |
| XN  | Hedge/Member | Mnths 7-12  | Increase | USD | 500             | 500                 | 600         | 600             |
| XN  | Spec         | Mnths 13+   | Increase | USD | 374             | 340                 | 440         | 400             |
| XN  | Hedge/Member | Mnths 13+   | Increase | USD | 340             | 340                 | 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>SONAT BASIS FUT (SZ)</b>                  |              |             |          |     |                 |                     |             |                 |
| SZ   | Spec         | Mnth 1      | Increase | USD | 55              | 50                  | 66          | 60              |
| SZ   | Hedge/Member | Mnth 1      | Increase | USD | 50              | 50                  | 60          | 60              |
| SZ   | Spec         | Mnth 2      | Increase | USD | 55              | 50                  | 66          | 60              |
| SZ   | Hedge/Member | Mnth 2      | Increase | USD | 50              | 50                  | 60          | 60              |
| SZ   | Spec         | Mnths 3+    | Increase | USD | 55              | 50                  | 66          | 60              |
| SZ   | Hedge/Member | Mnths 3+    | Increase | USD | 50              | 50                  | 60          | 60              |
| <b>SUMAS BASIS FUT (NK)</b>                  |              |             |          |     |                 |                     |             |                 |
| NK   | Spec         | Mnths 2-5   | Increase | USD | 286             | 260                 | 396         | 360             |
| NK   | Hedge/Member | Mnths 2-5   | Increase | USD | 260             | 260                 | 360         | 360             |
| NK   | Spec         | Mnths 6+    | Increase | USD | 209             | 190                 | 275         | 250             |
| NK   | Hedge/Member | Mnths 6+    | Increase | USD | 190             | 190                 | 250         | 250             |
| <b>TETCO STX BASIS (TX)</b>                  |              |             |          |     |                 |                     |             |                 |
| TX   | Spec         | Mth 1       | Increase | USD | 99              | 90                  | 176         | 160             |
| TX   | Hedge/Member | Mth 1       | Increase | USD | 90              | 90                  | 160         | 160             |
| TX   | Spec         | Mth 2       | Increase | USD | 61              | 55                  | 88          | 80              |
| TX   | Hedge/Member | Mth 2       | Increase | USD | 55              | 55                  | 80          | 80              |
| TX   | Spec         | Mths 3 - 6  | Increase | USD | 61              | 55                  | 72          | 65              |
| TX   | Hedge/Member | Mths 3 - 6  | Increase | USD | 55              | 55                  | 65          | 65              |
| TX   | Spec         | Mths 7 - 12 | Increase | USD | 61              | 55                  | 72          | 65              |
| TX   | Hedge/Member | Mths 7 - 12 | Increase | USD | 55              | 55                  | 65          | 65              |
| TX   | Spec         | Mths 13+    | Increase | USD | 61              | 55                  | 72          | 65              |
| TX   | Hedge/Member | Mths 13+    | Increase | USD | 55              | 55                  | 65          | 65              |
| <b>TEXAS EAST W LOUISANA NG BAS (8B)</b>     |              |             |          |     |                 |                     |             |                 |
| 8B   | Spec         | Mnth 1      | Increase | USD | 220             | 200                 | 330         | 300             |
| 8B   | Hedge/Member | Mnth 1      | Increase | USD | 200             | 200                 | 300         | 300             |
| 8B   | Spec         | Mnths 2+    | Increase | USD | 220             | 200                 | 330         | 300             |
| 8B   | Hedge/Member | Mnths 2+    | Increase | USD | 200             | 200                 | 300         | 300             |
| <b>TEXAS EASTERN WLA NAT GAS SWING (X8)</b>  |              |             |          |     |                 |                     |             |                 |
| X8   | Spec         | All Months  | Increase | USD | 825             | 750                 | 1,100       | 1,000           |
| X8   | Hedge/Member | All Months  | Increase | USD | 750             | 750                 | 1,000       | 1,000           |
| <b>TEXAS EASTERN ZONE M-3 SWING FUT (SX)</b> |              |             |          |     |                 |                     |             |                 |
| SX   | Spec         |             | Increase | USD | 2,750           | 2,500               | 8,250       | 7,500           |
| SX   | Hedge/Member |             | Increase | USD | 2,500           | 2,500               | 7,500       | 7,500           |
| <b>TRANSCO ZONE 1 NAT GAS SWING FUT (X4)</b> |              |             |          |     |                 |                     |             |                 |
| X4   | Spec         |             | Increase | USD | 935             | 850                 | 1,100       | 1,000           |
| X4   | Hedge/Member |             | Increase | USD | 850             | 850                 | 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>TRANSCO ZONE 2 NG BASIS (8F)</b> |              |             |          |     |                 |                     |             |                 |
| 8F                                  | Spec         | Mnth 1      | Increase | USD | 165             | 150                 | 330         | 300             |
| 8F                                  | Hedge/Member | Mnth 1      | Increase | USD | 150             | 150                 | 300         | 300             |
| 8F                                  | Spec         | Mnth 2+     | Increase | USD | 165             | 150                 | 330         | 300             |
| 8F                                  | Hedge/Member | Mnth 2+     | Increase | USD | 150             | 150                 | 300         | 300             |
| <b>TRANSCO ZONE 3 BASIS (CZ)</b>    |              |             |          |     |                 |                     |             |                 |
| CZ                                  | Spec         | Mth 1       | Increase | USD | 72              | 65                  | 132         | 120             |
| CZ                                  | Hedge/Member | Mth 1       | Increase | USD | 65              | 65                  | 120         | 120             |
| CZ                                  | Spec         | Mth 2       | Increase | USD | 44              | 40                  | 121         | 110             |
| CZ                                  | Hedge/Member | Mth 2       | Increase | USD | 40              | 40                  | 110         | 110             |
| CZ                                  | Spec         | Mths 3 - 6  | Increase | USD | 44              | 40                  | 94          | 85              |
| CZ                                  | Hedge/Member | Mths 3 - 6  | Increase | USD | 40              | 40                  | 85          | 85              |
| CZ                                  | Spec         | Mths 7 - 12 | Increase | USD | 44              | 40                  | 83          | 75              |
| CZ                                  | Hedge/Member | Mths 7 - 12 | Increase | USD | 40              | 40                  | 75          | 75              |
| CZ                                  | Spec         | Mths 13+    | Increase | USD | 44              | 40                  | 72          | 65              |
| CZ                                  | Hedge/Member | Mths 13+    | Increase | USD | 40              | 40                  | 65          | 65              |
| <b>TRANSCO ZONE4 BASIS FUT (TR)</b> |              |             |          |     |                 |                     |             |                 |
| TR                                  | Spec         | Mnth 1      | Increase | USD | 50              | 45                  | 66          | 60              |
| TR                                  | Hedge/Member | Mnth 1      | Increase | USD | 45              | 45                  | 60          | 60              |
| <b>TRUNKLINE, LA BASIS FUT (NU)</b> |              |             |          |     |                 |                     |             |                 |
| NU                                  | Spec         | Mnth 1      | Increase | USD | 110             | 100                 | 220         | 200             |
| NU                                  | Hedge/Member | Mnth 1      | Increase | USD | 100             | 100                 | 200         | 200             |
| NU                                  | Spec         | Mnths 2+    | Increase | USD | 110             | 100                 | 220         | 200             |
| NU                                  | Hedge/Member | Mnths 2+    | Increase | USD | 100             | 100                 | 200         | 200             |
| <b>VENTURA BASIS FUT (PF)</b>       |              |             |          |     |                 |                     |             |                 |
| PF                                  | Spec         | Mnth 1      | Increase | USD | 303             | 275                 | 853         | 775             |
| PF                                  | Hedge/Member | Mnth 1      | Increase | USD | 275             | 275                 | 775         | 775             |
| PF                                  | Spec         | Mnths 2-5   | Increase | USD | 198             | 180                 | 550         | 500             |
| PF                                  | Hedge/Member | Mnths 2-5   | Increase | USD | 180             | 180                 | 500         | 500             |
| PF                                  | Spec         | Mnths 6+    | Increase | USD | 176             | 160                 | 209         | 190             |
| PF                                  | Hedge/Member | Mnths 6+    | Increase | USD | 160             | 160                 | 190         | 190             |

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

| CC | Rate Type | Description | Change | ISO | Current Initial | Current Maintenance | New Initial | New Maintenance |
|----|-----------|-------------|--------|-----|-----------------|---------------------|-------------|-----------------|
|----|-----------|-------------|--------|-----|-----------------|---------------------|-------------|-----------------|

### Outright Rates

#### **WAHA TEXAS BASIS FUT (NW)**

|    |              |            |          |     |     |     |     |     |
|----|--------------|------------|----------|-----|-----|-----|-----|-----|
| NW | Spec         | Mnth 1     | Increase | USD | 165 | 150 | 495 | 450 |
| NW | Hedge/Member | Mnth 1     | Increase | USD | 150 | 150 | 450 | 450 |
| NW | Spec         | Mnth 2     | Increase | USD | 99  | 90  | 220 | 200 |
| NW | Hedge/Member | Mnth 2     | Increase | USD | 90  | 90  | 200 | 200 |
| NW | Spec         | Mnths 3-6  | Increase | USD | 94  | 85  | 138 | 125 |
| NW | Hedge/Member | Mnths 3-6  | Increase | USD | 85  | 85  | 125 | 125 |
| NW | Spec         | Mnths 7-12 | Increase | USD | 88  | 80  | 138 | 125 |
| NW | Hedge/Member | Mnths 7-12 | Increase | USD | 80  | 80  | 125 | 125 |
| NW | Spec         | Mnths 13+  | Increase | USD | 55  | 50  | 138 | 125 |
| NW | Hedge/Member | Mnths 13+  | Increase | USD | 50  | 50  | 125 | 125 |

# SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

| CC  | Rate Type    | Description | Change   | ISO | Current Initial | Current Maintenance | New Initial | New Maintenance |
|---|--------------|-------------|----------|-----|-----------------|---------------------|-------------|-----------------|
| <b>Outright Rates</b>                           |              |             |          |     |                 |                     |             |                 |
| <b>NGL/PETROCHEMICALS - Outright Rates</b>      |              |             |          |     |                 |                     |             |                 |
| <b>ARGUS PROPAN FAR EST INDEX FUT (7E)</b>      |              |             |          |     |                 |                     |             |                 |
| 7E  | Spec         | Mnth 1      | Increase | USD | 68,750          | 62,500              | 88,000      | 80,000          |
| 7E  | Hedge/Member | Mnth 1      | Increase | USD | 62,500          | 62,500              | 80,000      | 80,000          |
| 7E  | Spec         | Mnth 2+     | Increase | USD | 51,700          | 47,000              | 60,500      | 55,000          |
| 7E  | Hedge/Member | Mnth 2+     | Increase | USD | 47,000          | 47,000              | 55,000      | 55,000          |
| <b>CONWAY PROPANE 5 DEC. FUT (8K)</b>           |              |             |          |     |                 |                     |             |                 |
| 8K  | Spec         | Mth 1       | Increase | USD | 4,950           | 4,500               | 14,850      | 13,500          |
| 8K  | Hedge/Member | Mth 1       | Increase | USD | 4,500           | 4,500               | 13,500      | 13,500          |
| 8K  | Spec         | Mth 2+      | New      | USD |                 |                     | 7,700       | 7,000           |
| 8K  | Hedge/Member | Mth 2+      | New      | USD |                 |                     | 7,000       | 7,000           |
| <b>ETHANE 5 DECIMAL (C0)</b>                    |              |             |          |     |                 |                     |             |                 |
| C0  | Spec         | Mnths 1-3   | Increase | USD | 1,375           | 1,250               | 1,650       | 1,500           |
| C0  | Hedge/Member | Mnths 1-3   | Increase | USD | 1,250           | 1,250               | 1,500       | 1,500           |
| <b>HDPE HIGH DEN POLYETHYLENE CAL FUT (HPE)</b> |              |             |          |     |                 |                     |             |                 |
| HPE   | Spec         |             | Increase | USD | 3,025           | 2,750               | 3,575       | 3,250           |
| HPE   | Hedge/Member |             | Increase | USD | 2,750           | 2,750               | 3,250       | 3,250           |
| <b>MINI ARGUS PROPANE FAR EAST IDX (MAE)</b>    |              |             |          |     |                 |                     |             |                 |
| MAE   | Spec         | Mnth 1      | Increase | USD | 6,875           | 6,250               | 8,800       | 8,000           |
| MAE   | Hedge/Member | Mnth 1      | Increase | USD | 6,250           | 6,250               | 8,000       | 8,000           |
| MAE   | Spec         | Mnth 2+     | Increase | USD | 5,170           | 4,700               | 6,050       | 5,500           |
| MAE   | Hedge/Member | Mnth 2+     | Increase | USD | 4,700           | 4,700               | 5,500       | 5,500           |
| <b>MT. BELVIEU MINI LDH PROPANE FUT (81)</b>    |              |             |          |     |                 |                     |             |                 |
| 81  | Spec         | Mth 1       | Increase | USD | 330             | 300                 | 374         | 340             |
| 81  | Hedge/Member | Mth 1       | Increase | USD | 300             | 300                 | 340         | 340             |
| 81  | Spec         | Mth 2+      | Increase | USD | 330             | 300                 | 374         | 340             |
| 81  | Hedge/Member | Mth 2+      | Increase | USD | 300             | 300                 | 340         | 340             |
| <b>PGP POLYMER GRD PROPYLENE CAL FUT (PGP)</b>  |              |             |          |     |                 |                     |             |                 |
| PGP   | Spec         | Mth 1       | Increase | USD | 5,775           | 5,250               | 9,350       | 8,500           |
| PGP   | Hedge/Member | Mth 1       | Increase | USD | 5,250           | 5,250               | 8,500       | 8,500           |
| PGP   | Spec         | Mth 2+      | New      | USD |                 |                     | 5,775       | 5,250           |
| PGP   | Hedge/Member | Mth 2+      | New      | USD |                 |                     | 5,250       | 5,250           |
| <b>PROPANE 5 DECIMAL (B0)</b>                   |              |             |          |     |                 |                     |             |                 |
| B0  | Spec         | Mth 1       | Increase | USD | 3,300           | 3,000               | 3,740       | 3,400           |
| B0  | Hedge/Member | Mth 1       | Increase | USD | 3,000           | 3,000               | 3,400       | 3,400           |
| B0  | Spec         | Mth 2+      | Increase | USD | 3,300           | 3,000               | 3,740       | 3,400           |
| B0  | Hedge/Member | Mth 2+      | Increase | USD | 3,000           | 3,000               | 3,400       | 3,400           |

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

| CC | Rate Type | Description | Change | ISO | Current Initial | Current Maintenance | New Initial | New Maintenance |
|----|-----------|-------------|--------|-----|-----------------|---------------------|-------------|-----------------|
|----|-----------|-------------|--------|-----|-----------------|---------------------|-------------|-----------------|

### Outright Rates

#### **PROPANE NON LDH MT BELVIEU (1R)**

|    |              |  |          |     |       |       |       |       |
|----|--------------|--|----------|-----|-------|-------|-------|-------|
| 1R | Spec         |  | Increase | USD | 2,310 | 2,100 | 2,970 | 2,700 |
| 1R | Hedge/Member |  | Increase | USD | 2,100 | 2,100 | 2,700 | 2,700 |



## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

| CC   | Rate Type    | Description | Change   | ISO | Current Initial | Current Maintenance | New Initial | New Maintenance |
|--|--------------|-------------|----------|-----|-----------------|---------------------|-------------|-----------------|
| <b>Outright Rates</b>                                |              |             |          |     |                 |                     |             |                 |
| <b>PETROLEUM CRACKS AND SPREADS - Outright Rates</b> |              |             |          |     |                 |                     |             |                 |
| <b>ARGS GSOLNE E-BOB OXY BARGES NWE CK (EOB)</b>     |              |             |          |     |                 |                     |             |                 |
| EOB  | Spec         | Mnths 7+    | Increase | USD | 10,079          | 9,163               | 17,410      | 15,827          |
| EOB  | Hedge/Member | Mnths 7+    | Increase | USD | 9,163           | 9,163               | 15,827      | 15,827          |
| <b>EAST/WEST FUEL OIL SPREAD FUT (EW)</b>            |              |             |          |     |                 |                     |             |                 |
| EW   | Spec         | Mths 4+     | Increase | USD | 2,310           | 2,100               | 3,080       | 2,800           |
| EW   | Hedge/Member | Mths 4+     | Increase | USD | 2,100           | 2,100               | 2,800       | 2,800           |
| <b>GAS EURO-BOB OXY (ARG) CRACK (7K)</b>             |              |             |          |     |                 |                     |             |                 |
| 7K   | Spec         | Mnths 7+    | Increase | USD | 1,210           | 1,100               | 2,090       | 1,900           |
| 7K   | Hedge/Member | Mnths 7+    | Increase | USD | 1,100           | 1,100               | 1,900       | 1,900           |
| <b>GRP THREE SUB-OCT GS (PLT) VS RBOB (A8)</b>       |              |             |          |     |                 |                     |             |                 |
| A8   | Spec         | Mnths 5+    | Increase | USD | 1,100           | 1,000               | 1,870       | 1,700           |
| A8   | Hedge/Member | Mnths 5+    | Increase | USD | 1,000           | 1,000               | 1,700       | 1,700           |
| <b>NY HRBR ULSD CRK SPRD FUT (HK)</b>                |              |             |          |     |                 |                     |             |                 |
| HK   | Spec         | Mth 1       | Increase | USD | 3,025           | 2,750               | 3,300       | 3,000           |
| HK   | Hedge/Member | Mth 1       | Increase | USD | 2,750           | 2,750               | 3,000       | 3,000           |
| <b>NY ULSD VS. NY HRBR ULSD FUT (7Y)</b>             |              |             |          |     |                 |                     |             |                 |
| 7Y   | Spec         | Mnths 1-5   | Increase | USD | 1,650           | 1,500               | 2,200       | 2,000           |
| 7Y   | Hedge/Member | Mnths 1-5   | Increase | USD | 1,500           | 1,500               | 2,000       | 2,000           |
| <b>NY1% V. GC3PREAD S (VR)</b>                       |              |             |          |     |                 |                     |             |                 |
| VR   | Spec         | Mnth 1      | Increase | USD | 990             | 900                 | 1,100       | 1,000           |
| VR   | Hedge/Member | Mnth 1      | Increase | USD | 900             | 900                 | 1,000       | 1,000           |
| VR   | Spec         | Mnth 2      | Increase | USD | 660             | 600                 | 9,900       | 9,000           |
| VR   | Hedge/Member | Mnth 2      | Increase | USD | 600             | 600                 | 9,000       | 9,000           |
| <b>SINGAPORE JET DUBAI CRACK (KSD)</b>               |              |             |          |     |                 |                     |             |                 |
| KSD  | Spec         | Mnth 1      | Increase | USD | 4,400           | 4,000               | 5,500       | 5,000           |
| KSD  | Hedge/Member | Mnth 1      | Increase | USD | 4,000           | 4,000               | 5,000       | 5,000           |
| <b>SINGAPORE JET KERO GASOIL FUT (RK)</b>            |              |             |          |     |                 |                     |             |                 |
| RK   | Spec         | Mnth 2      | Increase | USD | 550             | 500                 | 770         | 700             |
| RK   | Hedge/Member | Mnth 2      | Increase | USD | 500             | 500                 | 700         | 700             |
| <b>SPORE FUEL OIL 180CST 6.35 DUBAI CK (STS)</b>     |              |             |          |     |                 |                     |             |                 |
| STS  | Spec         |             | Increase | USD | 2,420           | 2,200               | 2,970       | 2,700           |
| STS  | Hedge/Member |             | Increase | USD | 2,200           | 2,200               | 2,700       | 2,700           |

# SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

| CC | Rate Type | Description | Change | ISO | Current Initial | Current Maintenance | New Initial | New Maintenance |
|----|-----------|-------------|--------|-----|-----------------|---------------------|-------------|-----------------|
|----|-----------|-------------|--------|-----|-----------------|---------------------|-------------|-----------------|

## Outright Rates

### WEATHER - Outright Rates

#### H5 DALLAS HDD FUTURES (H5)

|    |              |  |          |     |     |     |     |     |
|----|--------------|--|----------|-----|-----|-----|-----|-----|
| H5 | Spec         |  | Increase | USD | 14% | 10% | 20% | 15% |
| H5 | Hedge/Member |  | Increase | USD | 10% | 10% | 15% | 15% |

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

| CC   | Rate Type    | Description | Change   | ISO | Current Initial | Current Maintenance | New Initial | New Maintenance |
|--|--------------|-------------|----------|-----|-----------------|---------------------|-------------|-----------------|
| <b>Intra Spreads</b>   |              |             |          |     |                 |                     |             |                 |
| <b>ENVIRONMENTAL - Intra Spreads</b>   |              |             |          |     |                 |                     |             |                 |
| <b>In Delivery Month European Union Allowance (EUA) Futures - All Months (IN DELIVERY MONTH EUA FUTURES)</b> |              |             |          |     |                 |                     |             |                 |
| 6T   | Spec         |             | Decrease | EUR | 1,375           | 1,250               | 880         | 800             |
| 6T   | Hedge/Member |             | Decrease | EUR | 1,250           | 1,250               | 800         | 800             |
| <b>FX - Intra Spreads</b>  |              |             |          |     |                 |                     |             |                 |
| <b>CME Korean Won/US Dollar (KRW) - All Months (KOREAN WON\U.S. DOLLAR FUTURE)</b>                           |              |             |          |     |                 |                     |             |                 |
| KRW  | Spec         |             | Increase | USD | 385             | 350                 | 523         | 475             |
| KRW  | Hedge/Member |             | Increase | USD | 350             | 350                 | 475         | 475             |
| <b>Turkish Lira FX (EUR) - All months (EURO/TURKISH LIRA FUTURES)</b>  |              |             |          |     |                 |                     |             |                 |
| TRE  | Spec         |             | Increase | TRY | 1,100           | 1,000               | 1,650       | 1,500           |
| TRE  | Hedge/Member |             | Increase | TRY | 1,000           | 1,000               | 1,500       | 1,500           |

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

| CC  | Rate Type    | Description | Change   | ISO | Current Initial | Current Maintenance | New Initial | New Maintenance |
|---|--------------|-------------|----------|-----|-----------------|---------------------|-------------|-----------------|
| <b>Intra Spreads</b>  |              |             |          |     |                 |                     |             |                 |
| <b>NATURAL GAS - Intra Spreads</b>  |              |             |          |     |                 |                     |             |                 |
| <b>Henry Hub Natural Gas (HH, NG, NN, HP) - Tier 1 vs. Tier 2 (HENRY HUB FUT TRADE AT SETTLEMENT)</b> |              |             |          |     |                 |                     |             |                 |
| NNT   | Spec         |             | Increase | USD | 275             | 250                 | 330         | 300             |
| NNT   | Hedge/Member |             | Increase | USD | 250             | 250                 | 300         | 300             |
| <b>Henry Hub Natural Gas (HH, NG, NN, HP) - Tier 1 vs. Tier 2 (HENRY HUB FUT)</b>                     |              |             |          |     |                 |                     |             |                 |
| NN  | Spec         |             | Increase | USD | 275             | 250                 | 330         | 300             |
| NN  | Hedge/Member |             | Increase | USD | 250             | 250                 | 300         | 300             |
| <b>Henry Hub Natural Gas (HH, NG, NN, HP) - Tier 1 vs. Tier 2 (HH TAS NYMEX NATURAL GAS FUTURES)</b>  |              |             |          |     |                 |                     |             |                 |
| HHT   | Spec         |             | Increase | USD | 1,100           | 1,000               | 1,320       | 1,200           |
| HHT   | Hedge/Member |             | Increase | USD | 1,000           | 1,000               | 1,200       | 1,200           |
| <b>Henry Hub Natural Gas (HH, NG, NN, HP) - Tier 1 vs. Tier 2 (NYMEX NATURAL GAS (H.HUB LTD) FUT)</b> |              |             |          |     |                 |                     |             |                 |
| HH  | Spec         |             | Increase | USD | 1,100           | 1,000               | 1,320       | 1,200           |
| HH  | Hedge/Member |             | Increase | USD | 1,000           | 1,000               | 1,200       | 1,200           |
| <b>Henry Hub Natural Gas (HH, NG, NN, HP) - Tier 1 vs. Tier 3 (HENRY HUB FUT TRADE AT SETTLEMENT)</b> |              |             |          |     |                 |                     |             |                 |
| NNT   | Spec         |             | Increase | USD | 179             | 163                 | 248         | 225             |
| NNT   | Hedge/Member |             | Increase | USD | 163             | 163                 | 225         | 225             |
| <b>Henry Hub Natural Gas (HH, NG, NN, HP) - Tier 1 vs. Tier 3 (HENRY HUB FUT)</b>                     |              |             |          |     |                 |                     |             |                 |
| NN  | Spec         |             | Increase | USD | 179             | 163                 | 248         | 225             |
| NN  | Hedge/Member |             | Increase | USD | 163             | 163                 | 225         | 225             |
| <b>Henry Hub Natural Gas (HH, NG, NN, HP) - Tier 1 vs. Tier 3 (HH TAS NYMEX NATURAL GAS FUTURES)</b>  |              |             |          |     |                 |                     |             |                 |
| HHT   | Spec         |             | Increase | USD | 715             | 650                 | 990         | 900             |
| HHT   | Hedge/Member |             | Increase | USD | 650             | 650                 | 900         | 900             |
| <b>Henry Hub Natural Gas (HH, NG, NN, HP) - Tier 1 vs. Tier 3 (NYMEX NATURAL GAS (H.HUB LTD) FUT)</b> |              |             |          |     |                 |                     |             |                 |
| HH  | Spec         |             | Increase | USD | 715             | 650                 | 990         | 900             |
| HH  | Hedge/Member |             | Increase | USD | 650             | 650                 | 900         | 900             |
| <b>Henry Hub Natural Gas (HH, NG, NN, HP) - Tier 1 vs. Tier 4 (HENRY HUB FUT TRADE AT SETTLEMENT)</b> |              |             |          |     |                 |                     |             |                 |
| NNT   | Spec         |             | Increase | USD | 193             | 175                 | 261         | 238             |
| NNT   | Hedge/Member |             | Increase | USD | 175             | 175                 | 238         | 238             |
| <b>Henry Hub Natural Gas (HH, NG, NN, HP) - Tier 1 vs. Tier 4 (HENRY HUB FUT)</b>                     |              |             |          |     |                 |                     |             |                 |
| NN  | Spec         |             | Increase | USD | 193             | 175                 | 261         | 238             |
| NN  | Hedge/Member |             | Increase | USD | 175             | 175                 | 238         | 238             |
| <b>Henry Hub Natural Gas (HH, NG, NN, HP) - Tier 1 vs. Tier 4 (HH TAS NYMEX NATURAL GAS FUTURES)</b>  |              |             |          |     |                 |                     |             |                 |
| HHT   | Spec         |             | Increase | USD | 770             | 700                 | 1,045       | 950             |
| HHT   | Hedge/Member |             | Increase | USD | 700             | 700                 | 950         | 950             |

## 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 1 vs. Tier 4 (NYMEX NATURAL GAS (H.HUB LTD) FUT)</b> |              |             |          |     |                 |                     |             |                 |
| HH  | Spec         |             | Increase | USD | 770             | 700                 | 1,045       | 950             |
| HH  | Hedge/Member |             | Increase | USD | 700             | 700                 | 950         | 950             |
| <b>Henry Hub Natural Gas (HH, NG, NN, HP) - Tier 1 vs. Tier 6 (HENRY HUB FUT TRADE AT SETTLEMENT)</b> |              |             |          |     |                 |                     |             |                 |
| NNT   | Spec         |             | Increase | USD | 275             | 250                 | 358         | 325             |
| NNT   | Hedge/Member |             | Increase | USD | 250             | 250                 | 325         | 325             |
| <b>Henry Hub Natural Gas (HH, NG, NN, HP) - Tier 1 vs. Tier 6 (HENRY HUB FUT)</b>                     |              |             |          |     |                 |                     |             |                 |
| NN  | Spec         |             | Increase | USD | 275             | 250                 | 358         | 325             |
| NN  | Hedge/Member |             | Increase | USD | 250             | 250                 | 325         | 325             |
| <b>Henry Hub Natural Gas (HH, NG, NN, HP) - Tier 1 vs. Tier 6 (HH TAS NYMEX NATURAL GAS FUTURES)</b>  |              |             |          |     |                 |                     |             |                 |
| HHT   | Spec         |             | Increase | USD | 1,100           | 1,000               | 1,430       | 1,300           |
| HHT   | Hedge/Member |             | Increase | USD | 1,000           | 1,000               | 1,300       | 1,300           |
| <b>Henry Hub Natural Gas (HH, NG, NN, HP) - Tier 1 vs. Tier 6 (NYMEX NATURAL GAS (H.HUB LTD) FUT)</b> |              |             |          |     |                 |                     |             |                 |
| HH  | Spec         |             | Increase | USD | 1,100           | 1,000               | 1,430       | 1,300           |
| HH  | Hedge/Member |             | Increase | USD | 1,000           | 1,000               | 1,300       | 1,300           |
| <b>Henry Hub Natural Gas (HH, NG, NN, HP) - Tier 1 vs. Tier 7 (HENRY HUB FUT TRADE AT SETTLEMENT)</b> |              |             |          |     |                 |                     |             |                 |
| NNT   | Spec         |             | Increase | USD | 330             | 300                 | 413         | 375             |
| NNT   | Hedge/Member |             | Increase | USD | 300             | 300                 | 375         | 375             |
| <b>Henry Hub Natural Gas (HH, NG, NN, HP) - Tier 1 vs. Tier 7 (HENRY HUB FUT)</b>                     |              |             |          |     |                 |                     |             |                 |
| NN  | Spec         |             | Increase | USD | 330             | 300                 | 413         | 375             |
| NN  | Hedge/Member |             | Increase | USD | 300             | 300                 | 375         | 375             |
| <b>Henry Hub Natural Gas (HH, NG, NN, HP) - Tier 1 vs. Tier 7 (HH TAS NYMEX NATURAL GAS FUTURES)</b>  |              |             |          |     |                 |                     |             |                 |
| HHT   | Spec         |             | Increase | USD | 1,320           | 1,200               | 1,650       | 1,500           |
| HHT   | Hedge/Member |             | Increase | USD | 1,200           | 1,200               | 1,500       | 1,500           |
| <b>Henry Hub Natural Gas (HH, NG, NN, HP) - Tier 1 vs. Tier 7 (NYMEX NATURAL GAS (H.HUB LTD) FUT)</b> |              |             |          |     |                 |                     |             |                 |
| HH  | Spec         |             | Increase | USD | 1,320           | 1,200               | 1,650       | 1,500           |
| HH  | Hedge/Member |             | Increase | USD | 1,200           | 1,200               | 1,500       | 1,500           |
| <b>Henry Hub Natural Gas (HH, NG, NN, HP) - Tier 1 vs. Tier 8 (HENRY HUB FUT TRADE AT SETTLEMENT)</b> |              |             |          |     |                 |                     |             |                 |
| NNT   | Spec         |             | Increase | USD | 454             | 413                 | 564         | 513             |
| NNT   | Hedge/Member |             | Increase | USD | 413             | 413                 | 513         | 513             |
| <b>Henry Hub Natural Gas (HH, NG, NN, HP) - Tier 1 vs. Tier 8 (HENRY HUB FUT)</b>                     |              |             |          |     |                 |                     |             |                 |
| NN  | Spec         |             | Increase | USD | 454             | 413                 | 564         | 513             |
| NN  | Hedge/Member |             | Increase | USD | 413             | 413                 | 513         | 513             |

## 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 1 vs. Tier 8 (HH TAS NYMEX NATURAL GAS FUTURES)</b>  |              |             |          |     |                 |                     |             |                 |
| HHT   | Spec         |             | Increase | USD | 1,815           | 1,650               | 2,255       | 2,050           |
| HHT   | Hedge/Member |             | Increase | USD | 1,650           | 1,650               | 2,050       | 2,050           |
| <b>Henry Hub Natural Gas (HH, NG, NN, HP) - Tier 1 vs. Tier 8 (NYMEX NATURAL GAS (H.HUB LTD) FUT)</b> |              |             |          |     |                 |                     |             |                 |
| HH  | Spec         |             | Increase | USD | 1,815           | 1,650               | 2,255       | 2,050           |
| HH  | Hedge/Member |             | Increase | USD | 1,650           | 1,650               | 2,050       | 2,050           |
| <b>Henry Hub Natural Gas (HH, NG, NN, HP) - Tier 3 vs. Tier 5 (HENRY HUB FUT TRADE AT SETTLEMENT)</b> |              |             |          |     |                 |                     |             |                 |
| NNT   | Spec         |             | Increase | USD | 220             | 200                 | 275         | 250             |
| NNT   | Hedge/Member |             | Increase | USD | 200             | 200                 | 250         | 250             |
| <b>Henry Hub Natural Gas (HH, NG, NN, HP) - Tier 3 vs. Tier 5 (HENRY HUB FUT)</b>                     |              |             |          |     |                 |                     |             |                 |
| NN  | Spec         |             | Increase | USD | 220             | 200                 | 275         | 250             |
| NN  | Hedge/Member |             | Increase | USD | 200             | 200                 | 250         | 250             |
| <b>Henry Hub Natural Gas (HH, NG, NN, HP) - Tier 3 vs. Tier 5 (HH TAS NYMEX NATURAL GAS FUTURES)</b>  |              |             |          |     |                 |                     |             |                 |
| HHT   | Spec         |             | Increase | USD | 880             | 800                 | 1,100       | 1,000           |
| HHT   | Hedge/Member |             | Increase | USD | 800             | 800                 | 1,000       | 1,000           |
| <b>Henry Hub Natural Gas (HH, NG, NN, HP) - Tier 3 vs. Tier 5 (NYMEX NATURAL GAS (H.HUB LTD) FUT)</b> |              |             |          |     |                 |                     |             |                 |
| HH  | Spec         |             | Increase | USD | 880             | 800                 | 1,100       | 1,000           |
| HH  | Hedge/Member |             | Increase | USD | 800             | 800                 | 1,000       | 1,000           |
| <b>Henry Hub Natural Gas (HH, NG, NN, HP) - Tier 3 vs. Tier 7 (HENRY HUB FUT TRADE AT SETTLEMENT)</b> |              |             |          |     |                 |                     |             |                 |
| NNT   | Spec         |             | Increase | USD | 358             | 325                 | 413         | 375             |
| NNT   | Hedge/Member |             | Increase | USD | 325             | 325                 | 375         | 375             |
| <b>Henry Hub Natural Gas (HH, NG, NN, HP) - Tier 3 vs. Tier 7 (HENRY HUB FUT)</b>                     |              |             |          |     |                 |                     |             |                 |
| NN  | Spec         |             | Increase | USD | 358             | 325                 | 413         | 375             |
| NN  | Hedge/Member |             | Increase | USD | 325             | 325                 | 375         | 375             |
| <b>Henry Hub Natural Gas (HH, NG, NN, HP) - Tier 3 vs. Tier 7 (HH TAS NYMEX NATURAL GAS FUTURES)</b>  |              |             |          |     |                 |                     |             |                 |
| HHT   | Spec         |             | Increase | USD | 1,430           | 1,300               | 1,650       | 1,500           |
| HHT   | Hedge/Member |             | Increase | USD | 1,300           | 1,300               | 1,500       | 1,500           |
| <b>Henry Hub Natural Gas (HH, NG, NN, HP) - Tier 3 vs. Tier 7 (NYMEX NATURAL GAS (H.HUB LTD) FUT)</b> |              |             |          |     |                 |                     |             |                 |
| HH  | Spec         |             | Increase | USD | 1,430           | 1,300               | 1,650       | 1,500           |
| HH  | Hedge/Member |             | Increase | USD | 1,300           | 1,300               | 1,500       | 1,500           |
| <b>Henry Hub Natural Gas (HH, NG, NN, HP) - Tier 3 vs. Tier 8 (HENRY HUB FUT TRADE AT SETTLEMENT)</b> |              |             |          |     |                 |                     |             |                 |
| NNT   | Spec         |             | Increase | USD | 468             | 425                 | 509         | 463             |
| NNT   | Hedge/Member |             | Increase | USD | 425             | 425                 | 463         | 463             |

## 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 3 vs. Tier 8 (HENRY HUB FUT)</b>                     |              |             |          |     |                 |                     |             |                 |
| NN  | Spec         |             | Increase | USD | 468             | 425                 | 509         | 463             |
| NN  | Hedge/Member |             | Increase | USD | 425             | 425                 | 463         | 463             |
| <b>Henry Hub Natural Gas (HH, NG, NN, HP) - Tier 3 vs. Tier 8 (HH TAS NYMEX NATURAL GAS FUTURES)</b>  |              |             |          |     |                 |                     |             |                 |
| HHT   | Spec         |             | Increase | USD | 1,870           | 1,700               | 2,035       | 1,850           |
| HHT   | Hedge/Member |             | Increase | USD | 1,700           | 1,700               | 1,850       | 1,850           |
| <b>Henry Hub Natural Gas (HH, NG, NN, HP) - Tier 3 vs. Tier 8 (NYMEX NATURAL GAS (H.HUB LTD) FUT)</b> |              |             |          |     |                 |                     |             |                 |
| HH  | Spec         |             | Increase | USD | 1,870           | 1,700               | 2,035       | 1,850           |
| HH  | Hedge/Member |             | Increase | USD | 1,700           | 1,700               | 1,850       | 1,850           |
| <b>Henry Hub Natural Gas (HH, NG, NN, HP) - Tier 5 vs. Tier 5 (HENRY HUB FUT TRADE AT SETTLEMENT)</b> |              |             |          |     |                 |                     |             |                 |
| NNT   | Spec         |             | Increase | USD | 138             | 125                 | 165         | 150             |
| NNT   | Hedge/Member |             | Increase | USD | 125             | 125                 | 150         | 150             |
| <b>Henry Hub Natural Gas (HH, NG, NN, HP) - Tier 5 vs. Tier 5 (HENRY HUB FUT)</b>                     |              |             |          |     |                 |                     |             |                 |
| NN  | Spec         |             | Increase | USD | 138             | 125                 | 165         | 150             |
| NN  | Hedge/Member |             | Increase | USD | 125             | 125                 | 150         | 150             |
| <b>Henry Hub Natural Gas (HH, NG, NN, HP) - Tier 5 vs. Tier 5 (HH TAS NYMEX NATURAL GAS FUTURES)</b>  |              |             |          |     |                 |                     |             |                 |
| HHT   | Spec         |             | Increase | USD | 550             | 500                 | 660         | 600             |
| HHT   | Hedge/Member |             | Increase | USD | 500             | 500                 | 600         | 600             |
| <b>Henry Hub Natural Gas (HH, NG, NN, HP) - Tier 5 vs. Tier 5 (NYMEX NATURAL GAS (H.HUB LTD) FUT)</b> |              |             |          |     |                 |                     |             |                 |
| HH  | Spec         |             | Increase | USD | 550             | 500                 | 660         | 600             |
| HH  | Hedge/Member |             | Increase | USD | 500             | 500                 | 600         | 600             |
| <b>Henry Hub Natural Gas (HH, NG, NN, HP) - Tier 5 vs. Tier 6 (HENRY HUB FUT TRADE AT SETTLEMENT)</b> |              |             |          |     |                 |                     |             |                 |
| NNT   | Spec         |             | Increase | USD | 165             | 150                 | 193         | 175             |
| NNT   | Hedge/Member |             | Increase | USD | 150             | 150                 | 175         | 175             |
| <b>Henry Hub Natural Gas (HH, NG, NN, HP) - Tier 5 vs. Tier 6 (HENRY HUB FUT)</b>                     |              |             |          |     |                 |                     |             |                 |
| NN  | Spec         |             | Increase | USD | 165             | 150                 | 193         | 175             |
| NN  | Hedge/Member |             | Increase | USD | 150             | 150                 | 175         | 175             |
| <b>Henry Hub Natural Gas (HH, NG, NN, HP) - Tier 5 vs. Tier 6 (HH TAS NYMEX NATURAL GAS FUTURES)</b>  |              |             |          |     |                 |                     |             |                 |
| HHT   | Spec         |             | Increase | USD | 660             | 600                 | 770         | 700             |
| HHT   | Hedge/Member |             | Increase | USD | 600             | 600                 | 700         | 700             |
| <b>Henry Hub Natural Gas (HH, NG, NN, HP) - Tier 5 vs. Tier 6 (NYMEX NATURAL GAS (H.HUB LTD) FUT)</b> |              |             |          |     |                 |                     |             |                 |
| HH  | Spec         |             | Increase | USD | 660             | 600                 | 770         | 700             |
| HH  | Hedge/Member |             | Increase | USD | 600             | 600                 | 700         | 700             |

## 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 5 vs. Tier 7 (HENRY HUB FUT TRADE AT SETTLEMENT)</b> |              |             |          |     |                 |                     |             |                 |
| NNT   | Spec         |             | Increase | USD | 234             | 213                 | 261         | 238             |
| NNT   | Hedge/Member |             | Increase | USD | 213             | 213                 | 238         | 238             |
| <b>Henry Hub Natural Gas (HH, NG, NN, HP) - Tier 5 vs. Tier 7 (HENRY HUB FUT)</b>                     |              |             |          |     |                 |                     |             |                 |
| NN  | Spec         |             | Increase | USD | 234             | 213                 | 261         | 238             |
| NN  | Hedge/Member |             | Increase | USD | 213             | 213                 | 238         | 238             |
| <b>Henry Hub Natural Gas (HH, NG, NN, HP) - Tier 5 vs. Tier 7 (HH TAS NYMEX NATURAL GAS FUTURES)</b>  |              |             |          |     |                 |                     |             |                 |
| HHT   | Spec         |             | Increase | USD | 935             | 850                 | 1,045       | 950             |
| HHT   | Hedge/Member |             | Increase | USD | 850             | 850                 | 950         | 950             |
| <b>Henry Hub Natural Gas (HH, NG, NN, HP) - Tier 5 vs. Tier 7 (NYMEX NATURAL GAS (H.HUB LTD) FUT)</b> |              |             |          |     |                 |                     |             |                 |
| HH  | Spec         |             | Increase | USD | 935             | 850                 | 1,045       | 950             |
| HH  | Hedge/Member |             | Increase | USD | 850             | 850                 | 950         | 950             |
| <b>Henry Hub Natural Gas (HH, NG, NN, HP) - Tier 8 vs. Tier 9 (HENRY HUB FUT TRADE AT SETTLEMENT)</b> |              |             |          |     |                 |                     |             |                 |
| NNT   | Spec         |             | Increase | USD | 303             | 275                 | 344         | 313             |
| NNT   | Hedge/Member |             | Increase | USD | 275             | 275                 | 313         | 313             |
| <b>Henry Hub Natural Gas (HH, NG, NN, HP) - Tier 8 vs. Tier 9 (HENRY HUB FUT)</b>                     |              |             |          |     |                 |                     |             |                 |
| NN  | Spec         |             | Increase | USD | 303             | 275                 | 344         | 313             |
| NN  | Hedge/Member |             | Increase | USD | 275             | 275                 | 313         | 313             |
| <b>Henry Hub Natural Gas (HH, NG, NN, HP) - Tier 8 vs. Tier 9 (HH TAS NYMEX NATURAL GAS FUTURES)</b>  |              |             |          |     |                 |                     |             |                 |
| HHT   | Spec         |             | Increase | USD | 1,210           | 1,100               | 1,375       | 1,250           |
| HHT   | Hedge/Member |             | Increase | USD | 1,100           | 1,100               | 1,250       | 1,250           |
| <b>Henry Hub Natural Gas (HH, NG, NN, HP) - Tier 8 vs. Tier 9 (NYMEX NATURAL GAS (H.HUB LTD) FUT)</b> |              |             |          |     |                 |                     |             |                 |
| HH  | Spec         |             | Increase | USD | 1,210           | 1,100               | 1,375       | 1,250           |
| HH  | Hedge/Member |             | Increase | USD | 1,100           | 1,100               | 1,250       | 1,250           |
| <b>Henry Hub Natural Gas (NG, NN, HP) - Tier 1 vs. Tier 2 (E-MINI NATURAL GAS FUTURES)</b>            |              |             |          |     |                 |                     |             |                 |
| QG  | Spec         |             | Increase | USD | 275             | 250                 | 330         | 300             |
| QG  | Hedge/Member |             | Increase | USD | 250             | 250                 | 300         | 300             |
| <b>Henry Hub Natural Gas (NG, NN, HP) - Tier 1 vs. Tier 2 (HENRY HUB NAT GAS LAST DAY DELV)</b>       |              |             |          |     |                 |                     |             |                 |
| MNG   | Spec         |             | Increase | USD | 275             | 250                 | 330         | 300             |
| MNG   | Hedge/Member |             | Increase | USD | 250             | 250                 | 300         | 300             |
| <b>Henry Hub Natural Gas (NG, NN, HP) - Tier 1 vs. Tier 2 (HENRY HUB PENULTIMATE)</b>                 |              |             |          |     |                 |                     |             |                 |
| NP  | Spec         |             | Increase | USD | 275             | 250                 | 330         | 300             |
| NP  | Hedge/Member |             | Increase | USD | 250             | 250                 | 300         | 300             |



## 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 1 vs. Tier 2 (NATURAL GAS HENRY HUB FUTURE)</b>    |              |             |          |     |                 |                     |             |                 |
| NG  | Spec         |             | Increase | USD | 1,100           | 1,000               | 1,320       | 1,200           |
| NG  | Hedge/Member |             | Increase | USD | 1,000           | 1,000               | 1,200       | 1,200           |
| <b>Henry Hub Natural Gas (NG, NN, HP) - Tier 1 vs. Tier 2 (NATURAL GAS TRADE AT SETTLEMENT)</b> |              |             |          |     |                 |                     |             |                 |
| NGT   | Spec         |             | Increase | USD | 1,100           | 1,000               | 1,320       | 1,200           |
| NGT   | Hedge/Member |             | Increase | USD | 1,000           | 1,000               | 1,200       | 1,200           |
| <b>Henry Hub Natural Gas (NG, NN, HP) - Tier 1 vs. Tier 2 (NYMEX NATURAL GAS FUTURES)</b>       |              |             |          |     |                 |                     |             |                 |
| HP  | Spec         |             | Increase | USD | 1,100           | 1,000               | 1,320       | 1,200           |
| HP  | Hedge/Member |             | Increase | USD | 1,000           | 1,000               | 1,200       | 1,200           |
| <b>Henry Hub Natural Gas (NG, NN, HP) - Tier 1 vs. Tier 3 (E-MINI NATURAL GAS FUTURES)</b>      |              |             |          |     |                 |                     |             |                 |
| QG  | Spec         |             | Increase | USD | 179             | 163                 | 248         | 225             |
| QG  | Hedge/Member |             | Increase | USD | 163             | 163                 | 225         | 225             |
| <b>Henry Hub Natural Gas (NG, NN, HP) - Tier 1 vs. Tier 3 (HENRY HUB NAT GAS LAST DAY DELV)</b> |              |             |          |     |                 |                     |             |                 |
| MNG   | Spec         |             | Increase | USD | 179             | 163                 | 248         | 225             |
| MNG   | Hedge/Member |             | Increase | USD | 163             | 163                 | 225         | 225             |
| <b>Henry Hub Natural Gas (NG, NN, HP) - Tier 1 vs. Tier 3 (HENRY HUB PENULTIMATE)</b>           |              |             |          |     |                 |                     |             |                 |
| NP  | Spec         |             | Increase | USD | 179             | 163                 | 248         | 225             |
| NP  | Hedge/Member |             | Increase | USD | 163             | 163                 | 225         | 225             |
| <b>Henry Hub Natural Gas (NG, NN, HP) - Tier 1 vs. Tier 3 (NATURAL GAS HENRY HUB FUTURE)</b>    |              |             |          |     |                 |                     |             |                 |
| NG  | Spec         |             | Increase | USD | 715             | 650                 | 990         | 900             |
| NG  | Hedge/Member |             | Increase | USD | 650             | 650                 | 900         | 900             |
| <b>Henry Hub Natural Gas (NG, NN, HP) - Tier 1 vs. Tier 3 (NATURAL GAS TRADE AT SETTLEMENT)</b> |              |             |          |     |                 |                     |             |                 |
| NGT   | Spec         |             | Increase | USD | 715             | 650                 | 990         | 900             |
| NGT   | Hedge/Member |             | Increase | USD | 650             | 650                 | 900         | 900             |
| <b>Henry Hub Natural Gas (NG, NN, HP) - Tier 1 vs. Tier 3 (NYMEX NATURAL GAS FUTURES)</b>       |              |             |          |     |                 |                     |             |                 |
| HP  | Spec         |             | Increase | USD | 715             | 650                 | 990         | 900             |
| HP  | Hedge/Member |             | Increase | USD | 650             | 650                 | 900         | 900             |
| <b>Henry Hub Natural Gas (NG, NN, HP) - Tier 1 vs. Tier 4 (E-MINI NATURAL GAS FUTURES)</b>      |              |             |          |     |                 |                     |             |                 |
| QG  | Spec         |             | Increase | USD | 193             | 175                 | 261         | 238             |
| QG  | Hedge/Member |             | Increase | USD | 175             | 175                 | 238         | 238             |
| <b>Henry Hub Natural Gas (NG, NN, HP) - Tier 1 vs. Tier 4 (HENRY HUB NAT GAS LAST DAY DELV)</b> |              |             |          |     |                 |                     |             |                 |
| MNG   | Spec         |             | Increase | USD | 193             | 175                 | 261         | 238             |
| MNG   | Hedge/Member |             | Increase | USD | 175             | 175                 | 238         | 238             |

## 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 1 vs. Tier 4 (HENRY HUB PENULTIMATE)</b>           |              |             |          |     |                 |                     |             |                 |
| NP  | Spec         |             | Increase | USD | 193             | 175                 | 261         | 238             |
| NP  | Hedge/Member |             | Increase | USD | 175             | 175                 | 238         | 238             |
| <b>Henry Hub Natural Gas (NG, NN, HP) - Tier 1 vs. Tier 4 (NATURAL GAS HENRY HUB FUTURE)</b>    |              |             |          |     |                 |                     |             |                 |
| NG  | Spec         |             | Increase | USD | 770             | 700                 | 1,045       | 950             |
| NG  | Hedge/Member |             | Increase | USD | 700             | 700                 | 950         | 950             |
| <b>Henry Hub Natural Gas (NG, NN, HP) - Tier 1 vs. Tier 4 (NATURAL GAS TRADE AT SETTLEMENT)</b> |              |             |          |     |                 |                     |             |                 |
| NGT   | Spec         |             | Increase | USD | 770             | 700                 | 1,045       | 950             |
| NGT   | Hedge/Member |             | Increase | USD | 700             | 700                 | 950         | 950             |
| <b>Henry Hub Natural Gas (NG, NN, HP) - Tier 1 vs. Tier 4 (NYMEX NATURAL GAS FUTURES)</b>       |              |             |          |     |                 |                     |             |                 |
| HP  | Spec         |             | Increase | USD | 770             | 700                 | 1,045       | 950             |
| HP  | Hedge/Member |             | Increase | USD | 700             | 700                 | 950         | 950             |
| <b>Henry Hub Natural Gas (NG, NN, HP) - Tier 1 vs. Tier 6 (E-MINI NATURAL GAS FUTURES)</b>      |              |             |          |     |                 |                     |             |                 |
| QG  | Spec         |             | Increase | USD | 275             | 250                 | 358         | 325             |
| QG  | Hedge/Member |             | Increase | USD | 250             | 250                 | 325         | 325             |
| <b>Henry Hub Natural Gas (NG, NN, HP) - Tier 1 vs. Tier 6 (HENRY HUB NAT GAS LAST DAY DELV)</b> |              |             |          |     |                 |                     |             |                 |
| MNG   | Spec         |             | Increase | USD | 275             | 250                 | 358         | 325             |
| MNG   | Hedge/Member |             | Increase | USD | 250             | 250                 | 325         | 325             |
| <b>Henry Hub Natural Gas (NG, NN, HP) - Tier 1 vs. Tier 6 (HENRY HUB PENULTIMATE)</b>           |              |             |          |     |                 |                     |             |                 |
| NP  | Spec         |             | Increase | USD | 275             | 250                 | 358         | 325             |
| NP  | Hedge/Member |             | Increase | USD | 250             | 250                 | 325         | 325             |
| <b>Henry Hub Natural Gas (NG, NN, HP) - Tier 1 vs. Tier 6 (NATURAL GAS HENRY HUB FUTURE)</b>    |              |             |          |     |                 |                     |             |                 |
| NG  | Spec         |             | Increase | USD | 1,100           | 1,000               | 1,430       | 1,300           |
| NG  | Hedge/Member |             | Increase | USD | 1,000           | 1,000               | 1,300       | 1,300           |
| <b>Henry Hub Natural Gas (NG, NN, HP) - Tier 1 vs. Tier 6 (NATURAL GAS TRADE AT SETTLEMENT)</b> |              |             |          |     |                 |                     |             |                 |
| NGT   | Spec         |             | Increase | USD | 1,100           | 1,000               | 1,430       | 1,300           |
| NGT   | Hedge/Member |             | Increase | USD | 1,000           | 1,000               | 1,300       | 1,300           |
| <b>Henry Hub Natural Gas (NG, NN, HP) - Tier 1 vs. Tier 6 (NYMEX NATURAL GAS FUTURES)</b>       |              |             |          |     |                 |                     |             |                 |
| HP  | Spec         |             | Increase | USD | 1,100           | 1,000               | 1,430       | 1,300           |
| HP  | Hedge/Member |             | Increase | USD | 1,000           | 1,000               | 1,300       | 1,300           |
| <b>Henry Hub Natural Gas (NG, NN, HP) - Tier 1 vs. Tier 7 (E-MINI NATURAL GAS FUTURES)</b>      |              |             |          |     |                 |                     |             |                 |
| QG  | Spec         |             | Increase | USD | 330             | 300                 | 413         | 375             |
| QG  | Hedge/Member |             | Increase | USD | 300             | 300                 | 375         | 375             |

## 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 1 vs. Tier 7 (HENRY HUB NAT GAS LAST DAY DELV)</b> |              |             |          |     |                 |                     |             |                 |
| MNG   | Spec         |             | Increase | USD | 330             | 300                 | 413         | 375             |
| MNG   | Hedge/Member |             | Increase | USD | 300             | 300                 | 375         | 375             |
| <b>Henry Hub Natural Gas (NG, NN, HP) - Tier 1 vs. Tier 7 (HENRY HUB PENULTIMATE)</b>           |              |             |          |     |                 |                     |             |                 |
| NP  | Spec         |             | Increase | USD | 330             | 300                 | 413         | 375             |
| NP  | Hedge/Member |             | Increase | USD | 300             | 300                 | 375         | 375             |
| <b>Henry Hub Natural Gas (NG, NN, HP) - Tier 1 vs. Tier 7 (NATURAL GAS HENRY HUB FUTURE)</b>    |              |             |          |     |                 |                     |             |                 |
| NG  | Spec         |             | Increase | USD | 1,320           | 1,200               | 1,650       | 1,500           |
| NG  | Hedge/Member |             | Increase | USD | 1,200           | 1,200               | 1,500       | 1,500           |
| <b>Henry Hub Natural Gas (NG, NN, HP) - Tier 1 vs. Tier 7 (NATURAL GAS TRADE AT SETTLEMENT)</b> |              |             |          |     |                 |                     |             |                 |
| NGT   | Spec         |             | Increase | USD | 1,320           | 1,200               | 1,650       | 1,500           |
| NGT   | Hedge/Member |             | Increase | USD | 1,200           | 1,200               | 1,500       | 1,500           |
| <b>Henry Hub Natural Gas (NG, NN, HP) - Tier 1 vs. Tier 7 (NYMEX NATURAL GAS FUTURES)</b>       |              |             |          |     |                 |                     |             |                 |
| HP  | Spec         |             | Increase | USD | 1,320           | 1,200               | 1,650       | 1,500           |
| HP  | Hedge/Member |             | Increase | USD | 1,200           | 1,200               | 1,500       | 1,500           |
| <b>Henry Hub Natural Gas (NG, NN, HP) - Tier 1 vs. Tier 8 (E-MINI NATURAL GAS FUTURES)</b>      |              |             |          |     |                 |                     |             |                 |
| QG  | Spec         |             | Increase | USD | 454             | 413                 | 564         | 513             |
| QG  | Hedge/Member |             | Increase | USD | 413             | 413                 | 513         | 513             |
| <b>Henry Hub Natural Gas (NG, NN, HP) - Tier 1 vs. Tier 8 (HENRY HUB NAT GAS LAST DAY DELV)</b> |              |             |          |     |                 |                     |             |                 |
| MNG   | Spec         |             | Increase | USD | 454             | 413                 | 564         | 513             |
| MNG   | Hedge/Member |             | Increase | USD | 413             | 413                 | 513         | 513             |
| <b>Henry Hub Natural Gas (NG, NN, HP) - Tier 1 vs. Tier 8 (HENRY HUB PENULTIMATE)</b>           |              |             |          |     |                 |                     |             |                 |
| NP  | Spec         |             | Increase | USD | 454             | 413                 | 564         | 513             |
| NP  | Hedge/Member |             | Increase | USD | 413             | 413                 | 513         | 513             |
| <b>Henry Hub Natural Gas (NG, NN, HP) - Tier 1 vs. Tier 8 (NATURAL GAS HENRY HUB FUTURE)</b>    |              |             |          |     |                 |                     |             |                 |
| NG  | Spec         |             | Increase | USD | 1,815           | 1,650               | 2,255       | 2,050           |
| NG  | Hedge/Member |             | Increase | USD | 1,650           | 1,650               | 2,050       | 2,050           |
| <b>Henry Hub Natural Gas (NG, NN, HP) - Tier 1 vs. Tier 8 (NATURAL GAS TRADE AT SETTLEMENT)</b> |              |             |          |     |                 |                     |             |                 |
| NGT   | Spec         |             | Increase | USD | 1,815           | 1,650               | 2,255       | 2,050           |
| NGT   | Hedge/Member |             | Increase | USD | 1,650           | 1,650               | 2,050       | 2,050           |
| <b>Henry Hub Natural Gas (NG, NN, HP) - Tier 1 vs. Tier 8 (NYMEX NATURAL GAS FUTURES)</b>       |              |             |          |     |                 |                     |             |                 |
| HP  | Spec         |             | Increase | USD | 1,815           | 1,650               | 2,255       | 2,050           |
| HP  | Hedge/Member |             | Increase | USD | 1,650           | 1,650               | 2,050       | 2,050           |

## 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 3 vs. Tier 5 (E-MINI NATURAL GAS FUTURES)</b>      |              |             |          |     |                 |                     |             |                 |
| QG  | Spec         |             | Increase | USD | 220             | 200                 | 275         | 250             |
| QG  | Hedge/Member |             | Increase | USD | 200             | 200                 | 250         | 250             |
| <b>Henry Hub Natural Gas (NG, NN, HP) - Tier 3 vs. Tier 5 (HENRY HUB NAT GAS LAST DAY DELV)</b> |              |             |          |     |                 |                     |             |                 |
| MNG   | Spec         |             | Increase | USD | 220             | 200                 | 275         | 250             |
| MNG   | Hedge/Member |             | Increase | USD | 200             | 200                 | 250         | 250             |
| <b>Henry Hub Natural Gas (NG, NN, HP) - Tier 3 vs. Tier 5 (HENRY HUB PENULTIMATE)</b>           |              |             |          |     |                 |                     |             |                 |
| NP  | Spec         |             | Increase | USD | 220             | 200                 | 275         | 250             |
| NP  | Hedge/Member |             | Increase | USD | 200             | 200                 | 250         | 250             |
| <b>Henry Hub Natural Gas (NG, NN, HP) - Tier 3 vs. Tier 5 (NATURAL GAS HENRY HUB FUTURE)</b>    |              |             |          |     |                 |                     |             |                 |
| NG  | Spec         |             | Increase | USD | 880             | 800                 | 1,100       | 1,000           |
| NG  | Hedge/Member |             | Increase | USD | 800             | 800                 | 1,000       | 1,000           |
| <b>Henry Hub Natural Gas (NG, NN, HP) - Tier 3 vs. Tier 5 (NATURAL GAS TRADE AT SETTLEMENT)</b> |              |             |          |     |                 |                     |             |                 |
| NGT   | Spec         |             | Increase | USD | 880             | 800                 | 1,100       | 1,000           |
| NGT   | Hedge/Member |             | Increase | USD | 800             | 800                 | 1,000       | 1,000           |
| <b>Henry Hub Natural Gas (NG, NN, HP) - Tier 3 vs. Tier 5 (NYMEX NATURAL GAS FUTURES)</b>       |              |             |          |     |                 |                     |             |                 |
| HP  | Spec         |             | Increase | USD | 880             | 800                 | 1,100       | 1,000           |
| HP  | Hedge/Member |             | Increase | USD | 800             | 800                 | 1,000       | 1,000           |
| <b>Henry Hub Natural Gas (NG, NN, HP) - Tier 3 vs. Tier 7 (E-MINI NATURAL GAS FUTURES)</b>      |              |             |          |     |                 |                     |             |                 |
| QG  | Spec         |             | Increase | USD | 358             | 325                 | 413         | 375             |
| QG  | Hedge/Member |             | Increase | USD | 325             | 325                 | 375         | 375             |
| <b>Henry Hub Natural Gas (NG, NN, HP) - Tier 3 vs. Tier 7 (HENRY HUB NAT GAS LAST DAY DELV)</b> |              |             |          |     |                 |                     |             |                 |
| MNG   | Spec         |             | Increase | USD | 358             | 325                 | 413         | 375             |
| MNG   | Hedge/Member |             | Increase | USD | 325             | 325                 | 375         | 375             |
| <b>Henry Hub Natural Gas (NG, NN, HP) - Tier 3 vs. Tier 7 (HENRY HUB PENULTIMATE)</b>           |              |             |          |     |                 |                     |             |                 |
| NP  | Spec         |             | Increase | USD | 358             | 325                 | 413         | 375             |
| NP  | Hedge/Member |             | Increase | USD | 325             | 325                 | 375         | 375             |
| <b>Henry Hub Natural Gas (NG, NN, HP) - Tier 3 vs. Tier 7 (NATURAL GAS HENRY HUB FUTURE)</b>    |              |             |          |     |                 |                     |             |                 |
| NG  | Spec         |             | Increase | USD | 1,430           | 1,300               | 1,650       | 1,500           |
| NG  | Hedge/Member |             | Increase | USD | 1,300           | 1,300               | 1,500       | 1,500           |
| <b>Henry Hub Natural Gas (NG, NN, HP) - Tier 3 vs. Tier 7 (NATURAL GAS TRADE AT SETTLEMENT)</b> |              |             |          |     |                 |                     |             |                 |
| NGT   | Spec         |             | Increase | USD | 1,430           | 1,300               | 1,650       | 1,500           |
| NGT   | Hedge/Member |             | Increase | USD | 1,300           | 1,300               | 1,500       | 1,500           |

## 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 3 vs. Tier 7 (NYMEX NATURAL GAS FUTURES)</b>       |              |             |          |     |                 |                     |             |                 |
| HP  | Spec         |             | Increase | USD | 1,430           | 1,300               | 1,650       | 1,500           |
| HP  | Hedge/Member |             | Increase | USD | 1,300           | 1,300               | 1,500       | 1,500           |
| <b>Henry Hub Natural Gas (NG, NN, HP) - Tier 3 vs. Tier 8 (E-MINI NATURAL GAS FUTURES)</b>      |              |             |          |     |                 |                     |             |                 |
| QG  | Spec         |             | Increase | USD | 468             | 425                 | 509         | 463             |
| QG  | Hedge/Member |             | Increase | USD | 425             | 425                 | 463         | 463             |
| <b>Henry Hub Natural Gas (NG, NN, HP) - Tier 3 vs. Tier 8 (HENRY HUB NAT GAS LAST DAY DELV)</b> |              |             |          |     |                 |                     |             |                 |
| MNG   | Spec         |             | Increase | USD | 468             | 425                 | 509         | 463             |
| MNG   | Hedge/Member |             | Increase | USD | 425             | 425                 | 463         | 463             |
| <b>Henry Hub Natural Gas (NG, NN, HP) - Tier 3 vs. Tier 8 (HENRY HUB PENULTIMATE)</b>           |              |             |          |     |                 |                     |             |                 |
| NP  | Spec         |             | Increase | USD | 468             | 425                 | 509         | 463             |
| NP  | Hedge/Member |             | Increase | USD | 425             | 425                 | 463         | 463             |
| <b>Henry Hub Natural Gas (NG, NN, HP) - Tier 3 vs. Tier 8 (NATURAL GAS HENRY HUB FUTURE)</b>    |              |             |          |     |                 |                     |             |                 |
| NG  | Spec         |             | Increase | USD | 1,870           | 1,700               | 2,035       | 1,850           |
| NG  | Hedge/Member |             | Increase | USD | 1,700           | 1,700               | 1,850       | 1,850           |
| <b>Henry Hub Natural Gas (NG, NN, HP) - Tier 3 vs. Tier 8 (NATURAL GAS TRADE AT SETTLEMENT)</b> |              |             |          |     |                 |                     |             |                 |
| NGT   | Spec         |             | Increase | USD | 1,870           | 1,700               | 2,035       | 1,850           |
| NGT   | Hedge/Member |             | Increase | USD | 1,700           | 1,700               | 1,850       | 1,850           |
| <b>Henry Hub Natural Gas (NG, NN, HP) - Tier 3 vs. Tier 8 (NYMEX NATURAL GAS FUTURES)</b>       |              |             |          |     |                 |                     |             |                 |
| HP  | Spec         |             | Increase | USD | 1,870           | 1,700               | 2,035       | 1,850           |
| HP  | Hedge/Member |             | Increase | USD | 1,700           | 1,700               | 1,850       | 1,850           |
| <b>Henry Hub Natural Gas (NG, NN, HP) - Tier 5 vs. Tier 5 (E-MINI NATURAL GAS FUTURES)</b>      |              |             |          |     |                 |                     |             |                 |
| QG  | Spec         |             | Increase | USD | 138             | 125                 | 165         | 150             |
| QG  | Hedge/Member |             | Increase | USD | 125             | 125                 | 150         | 150             |
| <b>Henry Hub Natural Gas (NG, NN, HP) - Tier 5 vs. Tier 5 (HENRY HUB NAT GAS LAST DAY DELV)</b> |              |             |          |     |                 |                     |             |                 |
| MNG   | Spec         |             | Increase | USD | 138             | 125                 | 165         | 150             |
| MNG   | Hedge/Member |             | Increase | USD | 125             | 125                 | 150         | 150             |
| <b>Henry Hub Natural Gas (NG, NN, HP) - Tier 5 vs. Tier 5 (HENRY HUB PENULTIMATE)</b>           |              |             |          |     |                 |                     |             |                 |
| NP  | Spec         |             | Increase | USD | 138             | 125                 | 165         | 150             |
| NP  | Hedge/Member |             | Increase | USD | 125             | 125                 | 150         | 150             |
| <b>Henry Hub Natural Gas (NG, NN, HP) - Tier 5 vs. Tier 5 (NATURAL GAS HENRY HUB FUTURE)</b>    |              |             |          |     |                 |                     |             |                 |
| NG  | Spec         |             | Increase | USD | 550             | 500                 | 660         | 600             |
| NG  | Hedge/Member |             | Increase | USD | 500             | 500                 | 600         | 600             |

## 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 5 vs. Tier 5 (NATURAL GAS TRADE AT SETTLEMENT)</b> |              |             |          |     |                 |                     |             |                 |
| NGT   | Spec         |             | Increase | USD | 550             | 500                 | 660         | 600             |
| NGT   | Hedge/Member |             | Increase | USD | 500             | 500                 | 600         | 600             |
| <b>Henry Hub Natural Gas (NG, NN, HP) - Tier 5 vs. Tier 5 (NYMEX NATURAL GAS FUTURES)</b>       |              |             |          |     |                 |                     |             |                 |
| HP  | Spec         |             | Increase | USD | 550             | 500                 | 660         | 600             |
| HP  | Hedge/Member |             | Increase | USD | 500             | 500                 | 600         | 600             |
| <b>Henry Hub Natural Gas (NG, NN, HP) - Tier 5 vs. Tier 6 (E-MINI NATURAL GAS FUTURES)</b>      |              |             |          |     |                 |                     |             |                 |
| QG  | Spec         |             | Increase | USD | 165             | 150                 | 193         | 175             |
| QG  | Hedge/Member |             | Increase | USD | 150             | 150                 | 175         | 175             |
| <b>Henry Hub Natural Gas (NG, NN, HP) - Tier 5 vs. Tier 6 (HENRY HUB NAT GAS LAST DAY DELV)</b> |              |             |          |     |                 |                     |             |                 |
| MNG   | Spec         |             | Increase | USD | 165             | 150                 | 193         | 175             |
| MNG   | Hedge/Member |             | Increase | USD | 150             | 150                 | 175         | 175             |
| <b>Henry Hub Natural Gas (NG, NN, HP) - Tier 5 vs. Tier 6 (HENRY HUB PENULTIMATE)</b>           |              |             |          |     |                 |                     |             |                 |
| NP  | Spec         |             | Increase | USD | 165             | 150                 | 193         | 175             |
| NP  | Hedge/Member |             | Increase | USD | 150             | 150                 | 175         | 175             |
| <b>Henry Hub Natural Gas (NG, NN, HP) - Tier 5 vs. Tier 6 (NATURAL GAS HENRY HUB FUTURE)</b>    |              |             |          |     |                 |                     |             |                 |
| NG  | Spec         |             | Increase | USD | 660             | 600                 | 770         | 700             |
| NG  | Hedge/Member |             | Increase | USD | 600             | 600                 | 700         | 700             |
| <b>Henry Hub Natural Gas (NG, NN, HP) - Tier 5 vs. Tier 6 (NATURAL GAS TRADE AT SETTLEMENT)</b> |              |             |          |     |                 |                     |             |                 |
| NGT   | Spec         |             | Increase | USD | 660             | 600                 | 770         | 700             |
| NGT   | Hedge/Member |             | Increase | USD | 600             | 600                 | 700         | 700             |
| <b>Henry Hub Natural Gas (NG, NN, HP) - Tier 5 vs. Tier 6 (NYMEX NATURAL GAS FUTURES)</b>       |              |             |          |     |                 |                     |             |                 |
| HP  | Spec         |             | Increase | USD | 660             | 600                 | 770         | 700             |
| HP  | Hedge/Member |             | Increase | USD | 600             | 600                 | 700         | 700             |
| <b>Henry Hub Natural Gas (NG, NN, HP) - Tier 5 vs. Tier 7 (E-MINI NATURAL GAS FUTURES)</b>      |              |             |          |     |                 |                     |             |                 |
| QG  | Spec         |             | Increase | USD | 234             | 213                 | 261         | 238             |
| QG  | Hedge/Member |             | Increase | USD | 213             | 213                 | 238         | 238             |
| <b>Henry Hub Natural Gas (NG, NN, HP) - Tier 5 vs. Tier 7 (HENRY HUB NAT GAS LAST DAY DELV)</b> |              |             |          |     |                 |                     |             |                 |
| MNG   | Spec         |             | Increase | USD | 234             | 213                 | 261         | 238             |
| MNG   | Hedge/Member |             | Increase | USD | 213             | 213                 | 238         | 238             |
| <b>Henry Hub Natural Gas (NG, NN, HP) - Tier 5 vs. Tier 7 (HENRY HUB PENULTIMATE)</b>           |              |             |          |     |                 |                     |             |                 |
| NP  | Spec         |             | Increase | USD | 234             | 213                 | 261         | 238             |
| NP  | Hedge/Member |             | Increase | USD | 213             | 213                 | 238         | 238             |

## 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 5 vs. Tier 7 (NATURAL GAS HENRY HUB FUTURE)</b>    |              |             |          |     |                 |                     |             |                 |
| NG  | Spec         |             | Increase | USD | 935             | 850                 | 1,045       | 950             |
| NG  | Hedge/Member |             | Increase | USD | 850             | 850                 | 950         | 950             |
| <b>Henry Hub Natural Gas (NG, NN, HP) - Tier 5 vs. Tier 7 (NATURAL GAS TRADE AT SETTLEMENT)</b> |              |             |          |     |                 |                     |             |                 |
| NGT   | Spec         |             | Increase | USD | 935             | 850                 | 1,045       | 950             |
| NGT   | Hedge/Member |             | Increase | USD | 850             | 850                 | 950         | 950             |
| <b>Henry Hub Natural Gas (NG, NN, HP) - Tier 5 vs. Tier 7 (NYMEX NATURAL GAS FUTURES)</b>       |              |             |          |     |                 |                     |             |                 |
| HP  | Spec         |             | Increase | USD | 935             | 850                 | 1,045       | 950             |
| HP  | Hedge/Member |             | Increase | USD | 850             | 850                 | 950         | 950             |
| <b>Henry Hub Natural Gas (NG, NN, HP) - Tier 8 vs. Tier 9 (E-MINI NATURAL GAS FUTURES)</b>      |              |             |          |     |                 |                     |             |                 |
| QG  | Spec         |             | Increase | USD | 303             | 275                 | 344         | 313             |
| QG  | Hedge/Member |             | Increase | USD | 275             | 275                 | 313         | 313             |
| <b>Henry Hub Natural Gas (NG, NN, HP) - Tier 8 vs. Tier 9 (HENRY HUB NAT GAS LAST DAY DELV)</b> |              |             |          |     |                 |                     |             |                 |
| MNG   | Spec         |             | Increase | USD | 303             | 275                 | 344         | 313             |
| MNG   | Hedge/Member |             | Increase | USD | 275             | 275                 | 313         | 313             |
| <b>Henry Hub Natural Gas (NG, NN, HP) - Tier 8 vs. Tier 9 (HENRY HUB PENULTIMATE)</b>           |              |             |          |     |                 |                     |             |                 |
| NP  | Spec         |             | Increase | USD | 303             | 275                 | 344         | 313             |
| NP  | Hedge/Member |             | Increase | USD | 275             | 275                 | 313         | 313             |
| <b>Henry Hub Natural Gas (NG, NN, HP) - Tier 8 vs. Tier 9 (NATURAL GAS HENRY HUB FUTURE)</b>    |              |             |          |     |                 |                     |             |                 |
| NG  | Spec         |             | Increase | USD | 1,210           | 1,100               | 1,375       | 1,250           |
| NG  | Hedge/Member |             | Increase | USD | 1,100           | 1,100               | 1,250       | 1,250           |
| <b>Henry Hub Natural Gas (NG, NN, HP) - Tier 8 vs. Tier 9 (NATURAL GAS TRADE AT SETTLEMENT)</b> |              |             |          |     |                 |                     |             |                 |
| NGT   | Spec         |             | Increase | USD | 1,210           | 1,100               | 1,375       | 1,250           |
| NGT   | Hedge/Member |             | Increase | USD | 1,100           | 1,100               | 1,250       | 1,250           |
| <b>Henry Hub Natural Gas (NG, NN, HP) - Tier 8 vs. Tier 9 (NYMEX NATURAL GAS FUTURES)</b>       |              |             |          |     |                 |                     |             |                 |
| HP  | Spec         |             | Increase | USD | 1,210           | 1,100               | 1,375       | 1,250           |
| HP  | Hedge/Member |             | Increase | USD | 1,100           | 1,100               | 1,250       | 1,250           |

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

| CC  | Rate Type    | Description | Change   | ISO | Current Initial | Current Maintenance | New Initial | New Maintenance |
|---|--------------|-------------|----------|-----|-----------------|---------------------|-------------|-----------------|
| <b>Intra Spreads</b>  |              |             |          |     |                 |                     |             |                 |
| <b>NGL/PETROCHEMICALS - Intra Spreads</b>   |              |             |          |     |                 |                     |             |                 |
| <b>Conway Propane (OPIS) Swap - All Months (CONWAY PROPANE 5 DEC. FUT)</b>  |              |             |          |     |                 |                     |             |                 |
| 8K  | Spec         |             | Increase | USD | 880             | 800                 | 2,200       | 2,000           |
| 8K  | Hedge/Member |             | Increase | USD | 800             | 800                 | 2,000       | 2,000           |
| <b>European Propane CIF ARA (Argus) Swap - All Months (EURO PROPANE CIF ARA FUT)</b>                                |              |             |          |     |                 |                     |             |                 |
| PS  | Spec         |             | Increase | USD | 22,000          | 20,000              | 38,500      | 35,000          |
| PS  | Hedge/Member |             | Increase | USD | 20,000          | 20,000              | 35,000      | 35,000          |
| <b>HDPE High Density Polyethylene (PCW) Calendar Swap Futures - All Months (HDPE HIGH DEN POLYETHYLENE CAL FUT)</b> |              |             |          |     |                 |                     |             |                 |
| HPE   | Spec         |             | Increase | USD | 1,540           | 1,400               | 2,200       | 2,000           |
| HPE   | Hedge/Member |             | Increase | USD | 1,400           | 1,400               | 2,000       | 2,000           |
| <b>Mont Belvieu Ethane (OPIS) Swap - Tier 1 vs. Tier 1 (ETHANE 5 DECIMAL)</b>                                       |              |             |          |     |                 |                     |             |                 |
| C0  | Spec         |             | Increase | USD | 330             | 300                 | 660         | 600             |
| C0  | Hedge/Member |             | Increase | USD | 300             | 300                 | 600         | 600             |
| <b>Mont Belvieu Ethane (OPIS) Swap - Tier 1 vs. Tier 2 (ETHANE 5 DECIMAL)</b>                                       |              |             |          |     |                 |                     |             |                 |
| C0  | Spec         |             | Increase | USD | 330             | 300                 | 660         | 600             |
| C0  | Hedge/Member |             | Increase | USD | 300             | 300                 | 600         | 600             |
| <b>Mont Belvieu Ethane (OPIS) Swap - Tier 2 vs. Tier 2 (ETHANE 5 DECIMAL)</b>                                       |              |             |          |     |                 |                     |             |                 |
| C0  | Spec         |             | Increase | USD | 330             | 300                 | 660         | 600             |
| C0  | Hedge/Member |             | Increase | USD | 300             | 300                 | 600         | 600             |
| <b>Mont Belvieu Natural Gasoline (OPIS) Swap - All Months (MONT BELVIEU NAT GAS (OPIS) FUT)</b>                     |              |             |          |     |                 |                     |             |                 |
| W3  | Spec         |             | Increase | USD | 1,650           | 1,500               | 2,200       | 2,000           |
| W3  | Hedge/Member |             | Increase | USD | 1,500           | 1,500               | 2,000       | 2,000           |
| <b>Mont Belvieu Natural Gasoline (OPIS) Swap - All Months (MT BELVIEU NAT GAS 5 D. OPIS)</b>                        |              |             |          |     |                 |                     |             |                 |
| 7Q  | Spec         |             | Increase | USD | 1,650           | 1,500               | 2,200       | 2,000           |
| 7Q  | Hedge/Member |             | Increase | USD | 1,500           | 1,500               | 2,000       | 2,000           |
| <b>Mont Belvieu Normal Butane LDH (OPIS) Swap Futures - all months (MT BELVIEU NORMAL BUTANE LDH(OPIS))</b>         |              |             |          |     |                 |                     |             |                 |
| MNB   | Spec         |             | Increase | USD | 1,210           | 1,100               | 2,420       | 2,200           |
| MNB   | Hedge/Member |             | Increase | USD | 1,100           | 1,100               | 2,200       | 2,200           |
| <b>Mt Belvieu Propane (OPIS) Swap - All Months (MT. BELVIEU MINI LDH PROPANE FUT)</b>                               |              |             |          |     |                 |                     |             |                 |
| 81  | Spec         |             | Increase | USD | 55              | 50                  | 138         | 125             |
| 81  | Hedge/Member |             | Increase | USD | 50              | 50                  | 125         | 125             |
| <b>Mt Belvieu Propane (OPIS) Swap - All Months (PROPANE 5 DECIMAL)</b>  |              |             |          |     |                 |                     |             |                 |
| B0  | Spec         |             | Increase | USD | 550             | 500                 | 1,375       | 1,250           |
| B0  | Hedge/Member |             | Increase | USD | 500             | 500                 | 1,250       | 1,250           |



## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

| CC  | Rate Type    | Description | Change   | ISO | Current Initial | Current Maintenance | New Initial | New Maintenance |
|---|--------------|-------------|----------|-----|-----------------|---------------------|-------------|-----------------|
| <b>Intra Spreads</b>  |              |             |          |     |                 |                     |             |                 |
| <b>PGP Polymer Grade Propylene (PCW) Calendar Swap Futures - All Months (PGP POLYMER GRD PROPYLENE CAL FUT)</b> |              |             |          |     |                 |                     |             |                 |
| PGP   | Spec         |             | Increase | USD | 3,300           | 3,000               | 4,400       | 4,000           |
| PGP   | Hedge/Member |             | Increase | USD | 3,000           | 3,000               | 4,000       | 4,000           |
| <b>PP Polypropylene (PCW) Calendar Swap Futures - all months (PP POLYPROPYLENE(PCW) CAL FUT)</b>                |              |             |          |     |                 |                     |             |                 |
| PPP   | Spec         |             | Increase | USD | 1,100           | 1,000               | 2,750       | 2,500           |
| PPP   | Hedge/Member |             | Increase | USD | 1,000           | 1,000               | 2,500       | 2,500           |
| <b>PROPANE NON LDH MT BELVIEU - All Months (PROPANE NON LDH MT BELVIEU)</b>                                     |              |             |          |     |                 |                     |             |                 |
| 1R  | Spec         |             | Increase | USD | 550             | 500                 | 1,100       | 1,000           |
| 1R  | Hedge/Member |             | Increase | USD | 500             | 500                 | 1,000       | 1,000           |

## 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>ELECTRICITY - Short Option Minimum (SOM) Rate</b>  |                  |          |                 |                     |             |                 |
| <b>PJM OFF-PEAK CALENDAR-MONTH LMP SWAP FUTURES (JP) - SOM</b>  |                  |          |                 |                     |             |                 |
| Clearing Member Rate  |                  | Increase | 33.000          | 30.000              | 55.000      | 50.000          |
| <b>PJM PEAK CALENDAR-DAY LMP SWAP FUTURES (JD) - SOM</b>  |                  |          |                 |                     |             |                 |
| Clearing Member Rate  |                  | Increase | 11.000          | 10.000              | 27.500      | 25.000          |
| <b>PJM PEAK CALENDAR-MONTH LMP SWAP FUTURES (JM, JO, PML) - SOM</b>   |                  |          |                 |                     |             |                 |
| Clearing Member Rate  |                  | Increase | 55.000          | 50.000              | 66.000      | 60.000          |
| <b>METALS - Short Option Minimum (SOM) 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) - SOM</b>                   |                  |          |                 |                     |             |                 |
| Clearing Member Rate  |                  | Decrease | 60.500          | 55.000              | 55.000      | 50.000          |
| <b>NATURAL GAS - Short Option Minimum (SOM) Rate</b>  |                  |          |                 |                     |             |                 |
| <b>CENTERPOINT NATURAL GAS SWING SWAP (PLATTS GAS DAILY) FUTURES (VX) - SOM</b>   |                  |          |                 |                     |             |                 |
| Clearing Member Rate  |                  | Increase | 11.000          | 10.000              | 27.500      | 25.000          |
| <b>COLUMBIA GULF MAINLINE BASIS SWAP (PLATTS IFERC) FUTURES (5Z) - SOM</b>  |                  |          |                 |                     |             |                 |
| Clearing Member Rate  |                  | Increase | 11.000          | 10.000              | 27.500      | 25.000          |
| <b>FGT ZONE 3 BASIS SWAP (PLATTS IFERC) FUTURES (FP) - SOM</b>  |                  |          |                 |                     |             |                 |
| Clearing Member Rate  |                  | Increase | 11.000          | 10.000              | 27.500      | 25.000          |
| <b>HENRY HUB NATURAL GAS FUTURES (HHQ, KD, LN, MNG, NG, NGT, ON, 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  |                  | Increase | 44.000          | 40.000              | 49.500      | 45.000          |
| <b>HENRY HUB NATURAL GAS PENULTIMATE FINANCIAL FUTURES (E7, HH, HP, NP, QG) - SOM</b>   |                  |          |                 |                     |             |                 |
| Clearing Member Rate  |                  | Increase | 44.000          | 40.000              | 49.500      | 45.000          |
| <b>HENRY HUB NATURAL GAS SWING (PLATTS GAS DAILY) FUTURES (SN) - SOM</b>  |                  |          |                 |                     |             |                 |
| Clearing Member Rate  |                  | Increase | 11.000          | 10.000              | 27.500      | 25.000          |
| <b>HOUSTON SHIP CHANNEL NATURAL GAS SWING (PLATTS GAS DAILY) FUTURES (SM) - SOM</b>   |                  |          |                 |                     |             |                 |
| Clearing Member Rate  |                  | Increase | 11.000          | 10.000              | 27.500      | 25.000          |
| <b>NYMEX NATURAL GAS (H.HUB LTD) FUT (E7, HH, HHT, NN, NNT) - SOM</b>   |                  |          |                 |                     |             |                 |
| Clearing Member Rate  |                  | Increase | 44.000          | 40.000              | 49.500      | 45.000          |
| <b>PANHANDLE NATURAL GAS SWING (PLATTS GAS DAILY) FUTURES (SV) - SOM</b>  |                  |          |                 |                     |             |                 |
| Clearing Member Rate  |                  | Increase | 11.000          | 10.000              | 27.500      | 25.000          |
| <b>PANHANDLE PIPE SWAP (PU, XH) - SOM</b>   |                  |          |                 |                     |             |                 |
| Clearing Member Rate  |                  | Increase | 22.000          | 20.000              | 33.000      | 30.000          |
| <b>ROCKIES BASIS SWAP (PLATTS IFERC) FUTURES (5I, NR) - SOM</b>   |                  |          |                 |                     |             |                 |
| Clearing Member Rate  |                  | Increase | 5.500           | 5.000               | 27.500      | 25.000          |
| <b>TETCO STX BASIS SWAP (PLATTS IFERC) FUTURES (TX) - SOM</b>   |                  |          |                 |                     |             |                 |
| Clearing Member Rate  |                  | Increase | 11.000          | 10.000              | 27.500      | 25.000          |

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

| Rate Type  | <u>Tier Description</u> | Change   | Current Initial | Current Maintenance | New Initial | New Maintenance |
|--|-------------------------|----------|-----------------|---------------------|-------------|-----------------|
| <b>Short Option Minimum (SOM) Rate</b>                                   |                         |          |                 |                     |             |                 |
| <b>TEXAS EASTERN, WLA BASIS SWAP (PLATTS IFERC) FUTURES (8B) - SOM</b>   |                         |          |                 |                     |             |                 |
| Clearing Member Rate   |                         | Increase | 11.000          | 10.000              | 27.500      | 25.000          |
| <b>TRANSCO ZONE 2 BASIS SWAP (PLATTS IFERC) FUTURES (8F) - SOM</b>       |                         |          |                 |                     |             |                 |
| Clearing Member Rate   |                         | Increase | 11.000          | 10.000              | 27.500      | 25.000          |
| <b>TRANSCO ZONE 3 BASIS SWAP (PLATTS IFERC) FUTURES (CZ) - SOM</b>       |                         |          |                 |                     |             |                 |
| Clearing Member Rate   |                         | Increase | 22.000          | 20.000              | 27.500      | 25.000          |
| <b>TRUNKLINE, LOUISIANA BASIS SWAP (PLATTS IFERC) FUTURES (NU) - SOM</b> |                         |          |                 |                     |             |                 |
| Clearing Member Rate   |                         | Increase | 11.000          | 10.000              | 27.500      | 25.000          |

## 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>ELECTRICITY - Volatility Scan (volScan) Rate</b>                                       |                  |          |                 |                     |             |                 |
| <b>PJM OFF-PEAK CALENDAR-MONTH LMP SWAP FUTURES (JP) - volScan</b>                        |                  |          |                 |                     |             |                 |
| Clearing Member Rate  | Mnth 1           | Increase |                 | 0.025               |             | 0.200           |
| Clearing Member Rate  | Mnth 2           | Increase |                 | 0.025               |             | 0.200           |
| Clearing Member Rate  | Mnths 3-11       | Increase |                 | 0.025               |             | 0.200           |
| Clearing Member Rate  | Mnths 12+        | Increase |                 | 0.025               |             | 0.200           |
| <b>PJM PEAK CALENDAR-DAY LMP SWAP FUTURES (JD) - volScan</b>                              |                  |          |                 |                     |             |                 |
| Clearing Member Rate  | Days 1-6         | Increase |                 | 0.200               |             | 0.400           |
| Clearing Member Rate  | Days 7-14        | Increase |                 | 0.200               |             | 0.400           |
| Clearing Member Rate  | Days 15+         | Increase |                 | 0.200               |             | 0.400           |
| <b>ENVIRONMENTAL - Volatility Scan (volScan) Rate</b>                                     |                  |          |                 |                     |             |                 |
| <b>CERTIFIED EMISSION REDUCTION PLUS (CERPLUS) FUTURES (CPE, CPL, PCL) - volScan</b>      |                  |          |                 |                     |             |                 |
| Clearing Member Rate  |                  | Increase |                 | 0.025               |             | 35.000%         |
| <b>CLIMATE ACTION RESERVE(CAR) FUTURES (NON-VINTAGE (CO, CR) - volScan</b>                |                  |          |                 |                     |             |                 |
| Clearing Member Rate  |                  | Increase |                 | 0.060               |             | 35.000%         |
| <b>EUROPEAN UNION ALLOWANCE (EUA) FUTURES (AV, RC) - volScan</b>                          |                  |          |                 |                     |             |                 |
| Clearing Member Rate  |                  | Increase |                 | 0.060               |             | 35.000%         |
| <b>IN DELIVERY MONTH EUROPEAN UNION ALLOWANCE (EUA) FUTURES (6T, 6U, 9G) - volScan</b>    |                  |          |                 |                     |             |                 |
| Clearing Member Rate  | Mth 1            | Increase |                 | 0.080               |             | 35.000%         |
| Clearing Member Rate  | Mths 2+          | Increase |                 | 0.050               |             | 15.000%         |
| <b>REGIONAL GREENHOUSE GAS INITIATIVE (RGGI) CO2 ALLOWANCE FUTURES (OR, RJ) - volScan</b> |                  |          |                 |                     |             |                 |
| Clearing Member Rate  |                  | Increase |                 | 0.060               |             | 35.000%         |

## 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>CENTERPOINT NATURAL GAS SWING SWAP (PLATTS GAS DAILY) FUTURES (VX) - volScan</b>     |                  |          |                 |                     |             |                 |
| Clearing Member Rate  | All Months       | Increase |                 | 0.050               |             | 0.150           |
| <b>COLUMBIA GAS TCO (PLATTS IFERC) FIXED PRICE SWAP FUTURES (CFS) - volScan</b>         |                  |          |                 |                     |             |                 |
| Clearing Member Rate  | Mnth 1           | Increase |                 | 0.070               |             | 0.150           |
| Clearing Member Rate  | Mnths 2+         | Increase |                 | 0.070               |             | 0.150           |
| <b>COLUMBIA GULF MAINLINE BASIS SWAP (PLATTS IFERC) FUTURES (5Z) - volScan</b>          |                  |          |                 |                     |             |                 |
| Clearing Member Rate  | Mnth 1           | Increase |                 | 0.025               |             | 0.100           |
| Clearing Member Rate  | Mnths 2+         | Increase |                 | 0.025               |             | 0.100           |
| <b>FGT ZONE 3 BASIS SWAP (PLATTS IFERC) FUTURES (FP) - volScan</b>                      |                  |          |                 |                     |             |                 |
| Clearing Member Rate  | Mnth 1           | Increase |                 | 0.025               |             | 0.100           |
| Clearing Member Rate  | Mnth 2           | Increase |                 | 0.025               |             | 0.100           |
| Clearing Member Rate  | Mnths 3-6        | Increase |                 | 0.025               |             | 0.100           |
| Clearing Member Rate  | Mnths 7-12       | Increase |                 | 0.025               |             | 0.100           |
| Clearing Member Rate  | Mnths 13+        | Increase |                 | 0.025               |             | 0.100           |
| <b>HENRY HUB NATURAL GAS SWING (PLATTS GAS DAILY) FUTURES (SN) - volScan</b>            |                  |          |                 |                     |             |                 |
| Clearing Member Rate  | All Months       | Increase |                 | 0.050               |             | 0.150           |
| <b>HOUSTON SHIP CHANNEL NATURAL GAS SWING (PLATTS GAS DAILY) FUTURES (SM) - volScan</b> |                  |          |                 |                     |             |                 |
| Clearing Member Rate  | All Months       | Increase |                 | 0.050               |             | 0.150           |
| <b>PANHANDLE NATURAL GAS SWING (PLATTS GAS DAILY) FUTURES (SV) - volScan</b>            |                  |          |                 |                     |             |                 |
| Clearing Member Rate  |                  | Increase |                 | 0.050               |             | 0.150           |
| <b>PANHANDLE PIPE SWAP (PU, XH) - volScan</b>   |                  |          |                 |                     |             |                 |
| Clearing Member Rate  | Mnth 1           | Increase |                 | 0.130               |             | 0.190           |
| Clearing Member Rate  | Mnths 2+         | Increase |                 | 0.070               |             | 0.090           |
| <b>SONAT BASIS SWAP (PLATTS IFERC) FUTURES (SZ) - volScan</b>                           |                  |          |                 |                     |             |                 |
| Clearing Member Rate  | Mnth 1           | Increase |                 | 0.025               |             | 0.100           |
| Clearing Member Rate  | Mnth 2           | Increase |                 | 0.025               |             | 0.100           |
| Clearing Member Rate  | Mnths 3+         | Increase |                 | 0.025               |             | 0.100           |
| <b>TETCO M-3 NATURAL GAS SWING SWAP (PLATTS GAS DAILY) FUTURES (SX) - volScan</b>       |                  |          |                 |                     |             |                 |
| Clearing Member Rate  |                  | Increase |                 | 0.050               |             | 0.500           |
| <b>TEXAS EASTERN, WLA BASIS SWAP (PLATTS IFERC) FUTURES (8B) - volScan</b>              |                  |          |                 |                     |             |                 |
| Clearing Member Rate  | Mnth 1           | Increase |                 | 0.025               |             | 0.100           |
| Clearing Member Rate  | Mnths 2+         | Increase |                 | 0.025               |             | 0.100           |
| <b>TRANSCO ZONE 2 BASIS SWAP (PLATTS IFERC) FUTURES (8F) - volScan</b>                  |                  |          |                 |                     |             |                 |
| Clearing Member Rate  | Mnth 1           | Increase |                 | 0.025               |             | 0.100           |
| Clearing Member Rate  | Mnth 2+          | Increase |                 | 0.025               |             | 0.100           |
| <b>TRANSCO ZONE 3 BASIS SWAP (PLATTS IFERC) FUTURES (CZ) - volScan</b>                  |                  |          |                 |                     |             |                 |
| Clearing Member Rate  | Mth 1            | Increase |                 | 0.025               |             | 0.100           |
| Clearing Member Rate  | Mth 2            | Increase |                 | 0.025               |             | 0.100           |

## 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                  | Mths 3 - 6              | Increase |                 | 0.025               |             | 0.100           |
| Clearing Member Rate                  | Mths 7 - 12             | Increase |                 | 0.025               |             | 0.100           |
| Clearing Member Rate                  | Mths 13+                | Increase |                 | 0.025               |             | 0.100           |