



22-105

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

FROM: CME Clearing

SUBJECT: Performance Bond Requirements

DATE: Thursday, March 17, 2022

***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. Please email any questions to [Clearing.RiskManagement@cmegroup.com](mailto:Clearing.RiskManagement@cmegroup.com).

The rates will be effective after the close of business on

**Friday, March 18, 2022.**

Current rates as of:

**Thursday, March 17, 2022.**

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>BLOOMBERG COMDITY INDEX FUT MARKER (AWI)</b>								
AWI	Non-HRP		Increase	USD	700	700	800	800
AWI	HRP		Increase	USD	770	700	880	800
<b>BLOOMBERG COMDITY INDEX SWAP MARKER (DGI)</b>								
DGI	Non-HRP		Increase	USD	630	630	750	750
DGI	HRP		Increase	USD	693	630	825	750
<b>BLOOMBERG COMMODITY INDEX FUTURES (70)</b>								
70	Non-HRP		Increase	USD	700	700	800	800
70	HRP		Increase	USD	770	700	880	800
<b>BLOOMBERG COMMODITY INDEX SWAPS (DGS)</b>								
DGS	Non-HRP		Increase	USD	630	630	750	750
DGS	HRP		Increase	USD	693	630	825	750
<b>BLOOMBERG ROLL SELECT COMM MARKER (DRI)</b>								
DRI	Non-HRP		Increase	USD	1,800	1,800	2,100	2,100
DRI	HRP		Increase	USD	1,980	1,800	2,310	2,100
<b>BLOOMBERG ROLL SELECT COMMDTY INDEX (DRS)</b>								
DRS	Non-HRP		Increase	USD	1,800	1,800	2,100	2,100
DRS	HRP		Increase	USD	1,980	1,800	2,310	2,100
<b>BTIC ON BLOOMBERG COMDITY INDEX FUT (AWT)</b>								
AWT	Non-HRP		Increase	USD	700	700	800	800
AWT	HRP		Increase	USD	770	700	880	800
<b>BTIC ON BLOOMBERG COMMODITY INDEX S (DGT)</b>								
DGT	Non-HRP		Increase	USD	630	630	750	750
DGT	HRP		Increase	USD	693	630	825	750
<b>BTIC ON BLOOMBERG ROLL SELECT INDEX (DRT)</b>								
DRT	Non-HRP		Increase	USD	1,800	1,800	2,100	2,100
DRT	HRP		Increase	USD	1,980	1,800	2,310	2,100
<b>BTIC ON S&amp;P-GSCI COMMODITY INDEX (GDT)</b>								
GDT	Non-HRP		Increase	USD	13,000	13,000	14,000	14,000
GDT	HRP		Increase	USD	14,300	13,000	15,400	14,000
<b>BTIC ON S&amp;P-GSCI EXCESS RETURN INDE (GIT)</b>								
GIT	Non-HRP		Increase	USD	2,250	2,250	2,700	2,700
GIT	HRP		Increase	USD	2,475	2,250	2,970	2,700
<b>GSCI ER FUTURES (GA)</b>								

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Outright Rates</b>								
GA	Non-HRP		Increase	USD	2,250	2,250	2,700	2,700
GA	HRP		Increase	USD	2,475	2,250	2,970	2,700
<b>S&amp;P GSCI ENHANCED ER SWAP FUT (RRE)</b>								
RRE	Non-HRP		Increase	USD	2,750	2,750	3,300	3,300
RRE	HRP		Increase	USD	3,025	2,750	3,630	3,300
<b>S&amp;P-GSCI COMMODITY INDEX FUTURE (GI)</b>								
GI	Non-HRP		Increase	USD	13,000	13,000	14,000	14,000
GI	HRP		Increase	USD	14,300	13,000	15,400	14,000
<b>S&amp;P-GSCI COMMODITY INDEX MARKER (GDM)</b>								
GDM	Non-HRP		Increase	USD	13,000	13,000	14,000	14,000
GDM	HRP		Increase	USD	14,300	13,000	15,400	14,000
<b>S&amp;P-GSCI EXCESS RETURN INDEX FUTURE (GII)</b>								
GII	Non-HRP		Increase	USD	2,250	2,250	2,700	2,700
GII	HRP		Increase	USD	2,475	2,250	2,970	2,700
<b>UREA (GRANULAR) FOB EGYPT FUTURES (UFE)</b>								
UFE	Non-HRP		Increase	USD	10,000	10,000	13,000	13,000
UFE	HRP		Increase	USD	11,000	10,000	14,300	13,000
<b>USD MALAYSIAN PALM OLEIN CAL FUT (OPF)</b>								
OPF	Non-HRP		Increase	USD	2,300	2,300	2,500	2,500
OPF	HRP		Increase	USD	2,530	2,300	2,750	2,500
<b>USD MALAYSIAN PALM OLEIN CAL SWAP (OPS)</b>								
OPS	Non-HRP		Increase	USD	2,300	2,300	2,500	2,500
OPS	HRP		Increase	USD	2,530	2,300	2,750	2,500

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Outright Rates</b>								
<b>EQUITY INDEX - Outright Rates</b>								
<b>ADJUSTED INT RATE S&amp;P500 TOTAL RET (ASR)</b>								
ASR	Non-HRP		Increase	USD	11,400	11,400	12,000	12,000
ASR	HRP		Increase	USD	12,540	11,400	13,200	12,000
<b>BTIC CONSUMER STAPLES SECTOR TIC (XPT)</b>								
XPT	Non-HRP		Increase	USD	3,300	3,300	3,800	3,800
XPT	HRP		Increase	USD	3,630	3,300	4,180	3,800
<b>BTIC EMINI FTSE CHINA 50 INDEX (FTC)</b>								
FTC	Non-HRP		Increase	USD	2,700	2,700	3,300	3,300
FTC	HRP		Increase	USD	2,970	2,700	3,630	3,300
<b>BTIC E-MINI S&amp;P MIDCAP 400 FUT (EMT)</b>								
EMT	Non-HRP		Increase	USD	12,500	12,500	13,500	13,500
EMT	HRP		Increase	USD	13,750	12,500	14,850	13,500
<b>BTIC ON ADJ IR S&amp;P 500 TOTAL RETURN (AST)</b>								
AST	Non-HRP		Increase	USD	11,400	11,400	12,000	12,000
AST	HRP		Increase	USD	12,540	11,400	13,200	12,000
<b>BTIC ON E-MINI NASDAQ-100 FUTURES (NQT)</b>								
NQT	Non-HRP		Increase	USD	16,000	16,000	17,000	17,000
NQT	HRP		Increase	USD	17,600	16,000	18,700	17,000
NQT	Non-HRP	Months 2+	Increase	USD	16,000	16,000	17,000	17,000
NQT	HRP	Months 2+	Increase	USD	17,600	16,000	18,700	17,000
<b>BTIC ON E-MINI S&amp;P 500 ESG INDEX (EGT)</b>								
EGT	Non-HRP		Increase	USD	9,500	9,500	11,000	11,000
EGT	HRP		Increase	USD	10,450	9,500	12,100	11,000
<b>BTIC ON E-MINI S&amp;P 500 FUTURES (EST)</b>								
EST	Non-HRP	Month 1	Increase	USD	11,400	11,400	12,000	12,000
EST	HRP	Month 1	Increase	USD	12,540	11,400	13,200	12,000
EST	Non-HRP	Months 3+	Increase	USD	11,400	11,400	12,000	12,000
EST	HRP	Months 3+	Increase	USD	12,540	11,400	13,200	12,000
EST	Non-HRP	Month 2	Increase	USD	11,400	11,400	12,000	12,000
EST	HRP	Month 2	Increase	USD	12,540	11,400	13,200	12,000
<b>BTIC ON NIKKEI STOCK AVERAGE FUT (NKT)</b>								
NKT	Non-HRP		Increase	USD	6,500	6,500	7,000	7,000
NKT	HRP		Increase	USD	7,150	6,500	7,700	7,000

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Outright Rates</b>								
<b>BTIC ON S&amp;P 500 TOTAL RETURN INDEX (TRB)</b>								
TRB	Non-HRP		Increase	USD	11,400	11,400	12,000	12,000
TRB	HRP		Increase	USD	12,540	11,400	13,200	12,000
<b>BTIC ON YEN DENOMINATED NIKKEI FUT (NIT)</b>								
NIT	Non-HRP		Increase	JPY	650,000	650,000	700,000	700,000
NIT	HRP		Increase	JPY	715,000	650,000	770,000	700,000
<b>BTIC ON YEN DENOMINATED TOPIX FUT (TPB)</b>								
TPB	Non-HRP		Increase	JPY	525,000	525,000	580,000	580,000
TPB	HRP		Increase	JPY	577,500	525,000	638,000	580,000
<b>BTIC REAL ESTATE SELECT INDEX FUT (XRT)</b>								
XRT	Non-HRP		Increase	USD	3,300	3,300	3,800	3,800
XRT	HRP		Increase	USD	3,630	3,300	4,180	3,800
<b>BTIC SP 500 ENERGY SELECT SECTOR (XET)</b>								
XET	Non-HRP		Increase	USD	5,000	5,000	5,500	5,500
XET	HRP		Increase	USD	5,500	5,000	6,050	5,500
<b>BTIC SP 500 UTILITIES SEL SECTOR (XUT)</b>								
XUT	Non-HRP		Increase	USD	3,500	3,500	4,000	4,000
XUT	HRP		Increase	USD	3,850	3,500	4,400	4,000
<b>EMINI FTSE CHINA 50 INDEX FUTURE (FT5)</b>								
FT5	Non-HRP		Increase	USD	2,700	2,700	3,300	3,300
FT5	HRP		Increase	USD	2,970	2,700	3,630	3,300
<b>EMINI FTSE CHINA50 INDEX SYN MARKER (FTY)</b>								
FTY	Non-HRP		Increase	USD	2,700	2,700	3,300	3,300
FTY	HRP		Increase	USD	2,970	2,700	3,630	3,300
<b>EMINI MIDCAP FUTURES (ME)</b>								
ME	Non-HRP		Increase	USD	12,500	12,500	13,500	13,500
ME	HRP		Increase	USD	13,750	12,500	14,850	13,500
<b>E-MINI NASDAQ 100 FUTURES (NQ)</b>								
NQ	Non-HRP		Increase	USD	16,000	16,000	17,000	17,000
NQ	HRP		Increase	USD	17,600	16,000	18,700	17,000
NQ	Non-HRP	Months 2+	Increase	USD	16,000	16,000	17,000	17,000
NQ	HRP	Months 2+	Increase	USD	17,600	16,000	18,700	17,000

## 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 NASDAQ-100 FUT TACO MARKER (QQ1)</b>								
QQ1	Non-HRP		Increase	USD	16,000	16,000	17,000	17,000
QQ1	HRP		Increase	USD	17,600	16,000	18,700	17,000
QQ1	Non-HRP	Months 2+	Increase	USD	16,000	16,000	17,000	17,000
QQ1	HRP	Months 2+	Increase	USD	17,600	16,000	18,700	17,000
<b>E-MINI NASDAQ-100 FUTURES MARKER (NQI)</b>								
NQI	Non-HRP		Increase	USD	16,000	16,000	17,000	17,000
NQI	HRP		Increase	USD	17,600	16,000	18,700	17,000
NQI	Non-HRP	Months 2+	Increase	USD	16,000	16,000	17,000	17,000
NQI	HRP	Months 2+	Increase	USD	17,600	16,000	18,700	17,000
<b>E-MINI NIKKEI 225 YEN DENOMINATED (ENY)</b>								
ENY	Non-HRP		Increase	JPY	130,000	130,000	140,000	140,000
ENY	HRP		Increase	JPY	143,000	130,000	154,000	140,000
<b>E-MINI REAL ESTATE INDEX MARKER (XRI)</b>								
XRI	Non-HRP		Increase	USD	3,300	3,300	3,800	3,800
XRI	HRP		Increase	USD	3,630	3,300	4,180	3,800
<b>E-MINI S&amp;P 500 ESG INDEX FUTURES (ESG)</b>								
ESG	Non-HRP		Increase	USD	9,500	9,500	11,000	11,000
ESG	HRP		Increase	USD	10,450	9,500	12,100	11,000
<b>E-MINI S&amp;P 500 ESG INDEX MARKE (EGI)</b>								
EGI	Non-HRP		Increase	USD	9,500	9,500	11,000	11,000
EGI	HRP		Increase	USD	10,450	9,500	12,100	11,000
<b>E-MINI S&amp;P 500 FUTURES (ES)</b>								
ES	Non-HRP	Month 1	Increase	USD	11,400	11,400	12,000	12,000
ES	HRP	Month 1	Increase	USD	12,540	11,400	13,200	12,000
ES	Non-HRP	Months 3+	Increase	USD	11,400	11,400	12,000	12,000
ES	HRP	Months 3+	Increase	USD	12,540	11,400	13,200	12,000
ES	Non-HRP	Month 2	Increase	USD	11,400	11,400	12,000	12,000
ES	HRP	Month 2	Increase	USD	12,540	11,400	13,200	12,000
<b>E-MINI S&amp;P 500 FUTURES MARKER (ESI)</b>								
ESI	Non-HRP	Month 1	Increase	USD	11,400	11,400	12,000	12,000
ESI	HRP	Month 1	Increase	USD	12,540	11,400	13,200	12,000
ESI	Non-HRP	Months 3+	Increase	USD	11,400	11,400	12,000	12,000
ESI	HRP	Months 3+	Increase	USD	12,540	11,400	13,200	12,000
ESI	Non-HRP	Month 2	Increase	USD	11,400	11,400	12,000	12,000
ESI	HRP	Month 2	Increase	USD	12,540	11,400	13,200	12,000

## 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 S&amp;P MIDCAP 400 SYNT MARKER (ETT)</b>								
ETT	Non-HRP		Increase	USD	12,500	12,500	13,500	13,500
ETT	HRP		Increase	USD	13,750	12,500	14,850	13,500
<b>EMINI SP 500 CONS STAPLES SECTOR IX (XAP)</b>								
XAP	Non-HRP		Increase	USD	3,300	3,300	3,800	3,800
XAP	HRP		Increase	USD	3,630	3,300	4,180	3,800
<b>EMINI SP 500 ENERGY SECTOR INDEX (XAE)</b>								
XAE	Non-HRP		Increase	USD	5,000	5,000	5,500	5,500
XAE	HRP		Increase	USD	5,500	5,000	6,050	5,500
<b>EMINI SP500-UTILITIES SECTOR INDEX (XAU)</b>								
XAU	Non-HRP		Increase	USD	3,500	3,500	4,000	4,000
XAU	HRP		Increase	USD	3,850	3,500	4,400	4,000
<b>FTSE DEVELOPED EUROPE INDEX FUTURES (DVE)</b>								
DVE	Non-HRP		Increase	EUR	2,700	2,700	3,200	3,200
DVE	HRP		Increase	EUR	2,970	2,700	3,520	3,200
<b>MICRO E-MINI NASDAQ 100 FUTURE (MNQ)</b>								
MNQ	Non-HRP		Increase	USD	1,600	1,600	1,700	1,700
MNQ	HRP		Increase	USD	1,760	1,600	1,870	1,700
MNQ	Non-HRP	Months 2+	Increase	USD	1,600	1,600	1,700	1,700
MNQ	HRP	Months 2+	Increase	USD	1,760	1,600	1,870	1,700
<b>MICRO E-MINI S&amp;P 500 FUTURES (MES)</b>								
MES	Non-HRP	Month 1	Increase	USD	1,140	1,140	1,200	1,200
MES	HRP	Month 1	Increase	USD	1,254	1,140	1,320	1,200
MES	Non-HRP	Months 3+	Increase	USD	1,140	1,140	1,200	1,200
MES	HRP	Months 3+	Increase	USD	1,254	1,140	1,320	1,200
MES	Non-HRP	Month 2	Increase	USD	1,140	1,140	1,200	1,200
MES	HRP	Month 2	Increase	USD	1,254	1,140	1,320	1,200
<b>NIKKEI 225 DOLLAR FUTURES (NK)</b>								
NK	Non-HRP		Increase	USD	6,500	6,500	7,000	7,000
NK	HRP		Increase	USD	7,150	6,500	7,700	7,000
<b>NIKKEI 225 YEN FUT (N1)</b>								
N1	Non-HRP		Increase	JPY	650,000	650,000	700,000	700,000
N1	HRP		Increase	JPY	715,000	650,000	770,000	700,000
<b>NIKKEI STOCK AVERAGE FUTURES MARKER (NKM)</b>								
NKM	Non-HRP		Increase	USD	6,500	6,500	7,000	7,000
NKM	HRP		Increase	USD	7,150	6,500	7,700	7,000

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Outright Rates</b>								
<b>REAL ESTATE SELECT SECTOR FUTURES (XAR)</b>								
XAR	Non-HRP		Increase	USD	3,300	3,300	3,800	3,800
XAR	HRP		Increase	USD	3,630	3,300	4,180	3,800
<b>S&amp;P 500 ANNUAL DIVIDEND INDEX FUT (SDA)</b>								
SDA	Non-HRP	Month 2	Increase	USD	600	600	720	720
SDA	HRP	Month 2	Increase	USD	660	600	792	720
SDA	Non-HRP	Month 3	Increase	USD	650	650	730	730
SDA	HRP	Month 3	Increase	USD	715	650	803	730
SDA	Non-HRP	Month 4	Increase	USD	650	650	730	730
SDA	HRP	Month 4	Increase	USD	715	650	803	730
SDA	Non-HRP	Month 5	Increase	USD	750	750	840	840
SDA	HRP	Month 5	Increase	USD	825	750	924	840
SDA	Non-HRP	Month 6	Increase	USD	750	750	840	840
SDA	HRP	Month 6	Increase	USD	825	750	924	840
SDA	Non-HRP	Month 7	Increase	USD	750	750	840	840
SDA	HRP	Month 7	Increase	USD	825	750	924	840
SDA	Non-HRP	Month 8	Increase	USD	750	750	840	840
SDA	HRP	Month 8	Increase	USD	825	750	924	840
SDA	Non-HRP	Month 9	Increase	USD	750	750	840	840
SDA	HRP	Month 9	Increase	USD	825	750	924	840
SDA	Non-HRP	Month 10	Increase	USD	750	750	840	840
SDA	HRP	Month 10	Increase	USD	825	750	924	840
SDA	Non-HRP	Month 11	Increase	USD	750	750	840	840
SDA	HRP	Month 11	Increase	USD	825	750	924	840
<b>S&amp;P 500 FUTURES (SP)</b>								
SP	Non-HRP	Month 1	Increase	USD	57,000	57,000	60,000	60,000
SP	HRP	Month 1	Increase	USD	62,700	57,000	66,000	60,000
SP	Non-HRP	Months 3+	Increase	USD	57,000	57,000	60,000	60,000
SP	HRP	Months 3+	Increase	USD	62,700	57,000	66,000	60,000
SP	Non-HRP	Month 2	Increase	USD	57,000	57,000	60,000	60,000
SP	HRP	Month 2	Increase	USD	62,700	57,000	66,000	60,000
<b>S&amp;P 500 TOTAL RETURN INDEX FUTURES (TRI)</b>								
TRI	Non-HRP		Increase	USD	11,400	11,400	12,000	12,000
TRI	HRP		Increase	USD	12,540	11,400	13,200	12,000
<b>S&amp;P 500 TOTAL RETURN INDEX MARKER (TRM)</b>								
TRM	Non-HRP		Increase	USD	11,400	11,400	12,000	12,000
TRM	HRP		Increase	USD	12,540	11,400	13,200	12,000



## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Outright Rates</b>								
<b>SP 500 - CONS STAPLES SYNTHETIC (1PT)</b>								
1PT	Non-HRP		Increase	USD	3,300	3,300	3,800	3,800
1PT	HRP		Increase	USD	3,630	3,300	4,180	3,800
<b>SP 500 ENERGY SLCT SEC SYNTHETIC (1ET)</b>								
1ET	Non-HRP		Increase	USD	5,000	5,000	5,500	5,500
1ET	HRP		Increase	USD	5,500	5,000	6,050	5,500
<b>SP 500 UTILITIES SEL SECTOR SYNTH (1UT)</b>								
1UT	Non-HRP		Increase	USD	3,500	3,500	4,000	4,000
1UT	HRP		Increase	USD	3,850	3,500	4,400	4,000
<b>TACO ON E-MINI NASDAQ-100 FUTURES (NQQ)</b>								
NQQ	Non-HRP		Increase	USD	16,000	16,000	17,000	17,000
NQQ	HRP		Increase	USD	17,600	16,000	18,700	17,000
NQQ	Non-HRP	Months 2+	Increase	USD	16,000	16,000	17,000	17,000
NQQ	HRP	Months 2+	Increase	USD	17,600	16,000	18,700	17,000
<b>TACO ON E-MINI S&amp;P 500 FUTURES (ESQ)</b>								
ESQ	Non-HRP	Month 1	Increase	USD	11,400	11,400	12,000	12,000
ESQ	HRP	Month 1	Increase	USD	12,540	11,400	13,200	12,000
ESQ	Non-HRP	Months 3+	Increase	USD	11,400	11,400	12,000	12,000
ESQ	HRP	Months 3+	Increase	USD	12,540	11,400	13,200	12,000
ESQ	Non-HRP	Month 2	Increase	USD	11,400	11,400	12,000	12,000
ESQ	HRP	Month 2	Increase	USD	12,540	11,400	13,200	12,000
<b>YEN DENOMINATED NIKKEI MARKER (NIM)</b>								
NIM	Non-HRP		Increase	JPY	650,000	650,000	700,000	700,000
NIM	HRP		Increase	JPY	715,000	650,000	770,000	700,000
<b>YEN DENOMINATED TOPIX FUTURES (TPY)</b>								
TPY	Non-HRP		Increase	JPY	525,000	525,000	580,000	580,000
TPY	HRP		Increase	JPY	577,500	525,000	638,000	580,000

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

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

#### ETHANOL - Outright Rates

##### UCOME BIODIESEL (RED CMPLT) FOB FUT (UCR)

UCR	Non-HRP	Mnths 1	Increase	USD	10,000	10,000	13,000	13,000
UCR	HRP	Mnths 1	Increase	USD	11,000	10,000	14,300	13,000
UCR	Non-HRP	Mnths 2	Increase	USD	10,000	10,000	13,000	13,000
UCR	HRP	Mnths 2	Increase	USD	11,000	10,000	14,300	13,000
UCR	Non-HRP	Mnths 3	Increase	USD	10,000	10,000	13,000	13,000
UCR	HRP	Mnths 3	Increase	USD	11,000	10,000	14,300	13,000
UCR	Non-HRP	Mnths 4-9	Increase	USD	10,000	10,000	13,000	13,000
UCR	HRP	Mnths 4-9	Increase	USD	11,000	10,000	14,300	13,000
UCR	Non-HRP	Mnths 10+	Increase	USD	10,000	10,000	13,000	13,000
UCR	HRP	Mnths 10+	Increase	USD	11,000	10,000	14,300	13,000

#### FX - Outright Rates

##### EURO FX/SF FUTURES (RF)

RF	Non-HRP		Increase	CHF	3,200	3,200	3,700	3,700
RF	HRP		Increase	CHF	3,520	3,200	4,070	3,700

##### EURORENMINBI FUTURE (RME)

RME	Non-HRP		Increase	EUR	3,000	3,000	3,600	3,600
RME	HRP		Increase	EUR	3,300	3,000	3,960	3,600

##### HUNGARIAN FORINT/EUR CROSS RATE FUT (R)

R	Non-HRP		Increase	EUR	2,000	2,000	2,400	2,400
R	HRP		Increase	EUR	2,200	2,000	2,640	2,400

##### POLISH ZLOTY/EURO CROSS RATE FUT (Z)

Z	Non-HRP		Increase	EUR	2,500	2,500	3,000	3,000
Z	HRP		Increase	EUR	2,750	2,500	3,300	3,000

#### METALS - Outright Rates

##### U.S. MIDWEST #1 BUSHELING FERROUS S (BUS)

BUS	Non-HRP	Mth 1	Increase	USD	1,350	1,350	1,650	1,650
BUS	HRP	Mth 1	Increase	USD	1,485	1,350	1,815	1,650

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

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

#### NGL/PETROCHEMICALS - Outright Rates

##### ARGUS PROPAN FAR EST INDEX FUT (7E)

7E	Non-HRP	Mnth 1	Increase	USD	62,000	62,000	68,000	68,000
7E	HRP	Mnth 1	Increase	USD	68,200	62,000	74,800	68,000
7E	Non-HRP	Mnth 2	Increase	USD	57,000	57,000	63,000	63,000
7E	HRP	Mnth 2	Increase	USD	62,700	57,000	69,300	63,000
7E	Non-HRP	Mnths 3-4	Increase	USD	55,000	55,000	60,000	60,000
7E	HRP	Mnths 3-4	Increase	USD	60,500	55,000	66,000	60,000
7E	Non-HRP	Months 5-7	Increase	USD	50,000	50,000	53,000	53,000
7E	HRP	Months 5-7	Increase	USD	55,000	50,000	58,300	53,000
7E	Non-HRP	Months 8+	Increase	USD	44,000	44,000	47,000	47,000
7E	HRP	Months 8+	Increase	USD	48,400	44,000	51,700	47,000

##### ARGUS PROPAN(SAUDI ARAMCO) FUT (9N)

9N	Non-HRP	Mnth 1	Increase	USD	60,000	60,000	65,000	65,000
9N	HRP	Mnth 1	Increase	USD	66,000	60,000	71,500	65,000
9N	Non-HRP	Mnths 2-3	Increase	USD	56,000	56,000	60,000	60,000
9N	HRP	Mnths 2-3	Increase	USD	61,600	56,000	66,000	60,000
9N	Non-HRP	Mnths 4-6	Increase	USD	51,000	51,000	54,000	54,000
9N	HRP	Mnths 4-6	Increase	USD	56,100	51,000	59,400	54,000
9N	Non-HRP	Mnths 7+	Increase	USD	45,000	45,000	48,000	48,000
9N	HRP	Mnths 7+	Increase	USD	49,500	45,000	52,800	48,000

##### CONWAY NORMAL BUTANE (OPIS) BALMO (CBB)

CBB	Non-HRP		Increase	USD	6,250	6,250	6,875	6,875
CBB	HRP		Increase	USD	6,875	6,250	7,563	6,875

##### CONWAY NORMAL BUTANE FUT (8M)

8M	Non-HRP	Mnth 1	Increase	USD	5,000	5,000	5,500	5,500
8M	HRP	Mnth 1	Increase	USD	5,500	5,000	6,050	5,500
8M	Non-HRP	Mnth 2+	Increase	USD	4,500	4,500	5,000	5,000
8M	HRP	Mnth 2+	Increase	USD	4,950	4,500	5,500	5,000

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Outright Rates</b>								
<b>EURO PROPANE CIF ARA FUT (PS)</b>								
PS	Non-HRP	Mnth 1	Increase	USD	64,000	64,000	68,000	68,000
PS	HRP	Mnth 1	Increase	USD	70,400	64,000	74,800	68,000
PS	Non-HRP	Mths 2	Increase	USD	58,000	58,000	63,000	63,000
PS	HRP	Mths 2	Increase	USD	63,800	58,000	69,300	63,000
PS	Non-HRP	Mths 3-4	Increase	USD	55,000	55,000	60,000	60,000
PS	HRP	Mths 3-4	Increase	USD	60,500	55,000	66,000	60,000
PS	Non-HRP	Mnths 5-7	Increase	USD	50,000	50,000	53,000	53,000
PS	HRP	Mnths 5-7	Increase	USD	55,000	50,000	58,300	53,000
PS	Non-HRP	Mths8+	Increase	USD	45,000	45,000	49,000	49,000
PS	HRP	Mths8+	Increase	USD	49,500	45,000	53,900	49,000
<b>MIN ARGUS PROPANE SAUDI ARAMCO FUT (MAS)</b>								
MAS	Non-HRP	Mnth 1	Increase	USD	6,000	6,000	6,500	6,500
MAS	HRP	Mnth 1	Increase	USD	6,600	6,000	7,150	6,500
MAS	Non-HRP	Mnths 2-3	Increase	USD	5,600	5,600	6,000	6,000
MAS	HRP	Mnths 2-3	Increase	USD	6,160	5,600	6,600	6,000
MAS	Non-HRP	Mnths 4-6	Increase	USD	5,100	5,100	5,400	5,400
MAS	HRP	Mnths 4-6	Increase	USD	5,610	5,100	5,940	5,400
MAS	Non-HRP	Mnths 7+	Increase	USD	4,500	4,500	4,800	4,800
MAS	HRP	Mnths 7+	Increase	USD	4,950	4,500	5,280	4,800
<b>MINI ARGUS PROPANE FAR EAST IDX (MAE)</b>								
MAE	Non-HRP	Mnth 1	Increase	USD	6,200	6,200	6,800	6,800
MAE	HRP	Mnth 1	Increase	USD	6,820	6,200	7,480	6,800
MAE	Non-HRP	Mnth 2	Increase	USD	5,700	5,700	6,300	6,300
MAE	HRP	Mnth 2	Increase	USD	6,270	5,700	6,930	6,300
MAE	Non-HRP	Mnths 3-4	Increase	USD	5,500	5,500	6,000	6,000
MAE	HRP	Mnths 3-4	Increase	USD	6,050	5,500	6,600	6,000
MAE	Non-HRP	Months 5-7	Increase	USD	5,000	5,000	5,300	5,300
MAE	HRP	Months 5-7	Increase	USD	5,500	5,000	5,830	5,300
MAE	Non-HRP	Months 8+	Increase	USD	4,400	4,400	4,700	4,700
MAE	HRP	Months 8+	Increase	USD	4,840	4,400	5,170	4,700

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Outright Rates</b>								
<b>MINI EURO PROPANE CIF ARA ARGUS FUT (MPS)</b>								
MPS	Non-HRP	Mnth 1	Increase	USD	6,400	6,400	6,800	6,800
MPS	HRP	Mnth 1	Increase	USD	7,040	6,400	7,480	6,800
MPS	Non-HRP	Mths 2	Increase	USD	5,800	5,800	6,300	6,300
MPS	HRP	Mths 2	Increase	USD	6,380	5,800	6,930	6,300
MPS	Non-HRP	Mths 3-4	Increase	USD	5,500	5,500	6,000	6,000
MPS	HRP	Mths 3-4	Increase	USD	6,050	5,500	6,600	6,000
MPS	Non-HRP	Mnths 5-7	Increase	USD	5,000	5,000	5,300	5,300
MPS	HRP	Mnths 5-7	Increase	USD	5,500	5,000	5,830	5,300
MPS	Non-HRP	Mths8+	Increase	USD	4,500	4,500	4,900	4,900
MPS	HRP	Mths8+	Increase	USD	4,950	4,500	5,390	4,900
<b>MT BELVIEU ISO BUTANE 5 DEC. S (8I)</b>								
8I	Non-HRP	Mnth 1	Increase	USD	4,900	4,900	5,400	5,400
8I	HRP	Mnth 1	Increase	USD	5,390	4,900	5,940	5,400
8I	Non-HRP	Mnths 2	Increase	USD	4,600	4,600	5,100	5,100
8I	HRP	Mnths 2	Increase	USD	5,060	4,600	5,610	5,100
8I	Non-HRP	Mnths 5+	Increase	USD	3,600	3,600	4,000	4,000
8I	HRP	Mnths 5+	Increase	USD	3,960	3,600	4,400	4,000
8I	Non-HRP	Mnth 3-4	Increase	USD	4,300	4,300	4,700	4,700
8I	HRP	Mnth 3-4	Increase	USD	4,730	4,300	5,170	4,700
<b>MT BELVIEU LDH ISO-BUTANE(OPIS) FUT (MBL)</b>								
MBL	Non-HRP	Mnth1	Increase	USD	5,200	5,200	5,700	5,700
MBL	HRP	Mnth1	Increase	USD	5,720	5,200	6,270	5,700
MBL	Non-HRP	Mnth2	Increase	USD	5,000	5,000	5,500	5,500
MBL	HRP	Mnth2	Increase	USD	5,500	5,000	6,050	5,500
MBL	Non-HRP	Mnth3+	New	USD			4,800	4,800
MBL	HRP	Mnth3+	New	USD			5,280	4,800
<b>MT BELVIEU NAT GAS 5 D. OPIS (7Q)</b>								
7Q	Non-HRP	Mnth 1	Increase	USD	7,400	7,400	8,200	8,200
7Q	HRP	Mnth 1	Increase	USD	8,140	7,400	9,020	8,200
7Q	Non-HRP	Mnths 2	Increase	USD	7,200	7,200	8,000	8,000
7Q	HRP	Mnths 2	Increase	USD	7,920	7,200	8,800	8,000
7Q	Non-HRP	Mnth 3+	Increase	USD	6,700	6,700	7,200	7,200
7Q	HRP	Mnth 3+	Increase	USD	7,370	6,700	7,920	7,200

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Outright Rates</b>								
<b>MT BELVIEU NORMAL BUTANE LDH(OPIS) (MNB)</b>								
MNB	Non-HRP	Mnth 1	Increase	USD	4,500	4,500	5,000	5,000
MNB	HRP	Mnth 1	Increase	USD	4,950	4,500	5,500	5,000
MNB	Non-HRP	Mnth 2	Increase	USD	4,200	4,200	4,700	4,700
MNB	HRP	Mnth 2	Increase	USD	4,620	4,200	5,170	4,700
MNB	Non-HRP	Mnth 3+	Increase	USD	4,000	4,000	4,500	4,500
MNB	HRP	Mnth 3+	Increase	USD	4,400	4,000	4,950	4,500
<b>PGP POLYMER GRD PROPYLENE CAL FUT (PGP)</b>								
PGP	Non-HRP	Mth 1	Decrease	USD	9,000	9,000	8,500	8,500
PGP	HRP	Mth 1	Decrease	USD	9,900	9,000	9,350	8,500
PGP	Non-HRP	Mth 2+	Decrease	USD	8,000	8,000	7,500	7,500
PGP	HRP	Mth 2+	Decrease	USD	8,800	8,000	8,250	7,500
<b>SYNT MT BELVIEU NAT GAS 5 D. OPI (\$7Q)</b>								
S7Q	Non-HRP	Mnth 1	Increase	USD	7,400	7,400	8,200	8,200
S7Q	HRP	Mnth 1	Increase	USD	8,140	7,400	9,020	8,200
S7Q	Non-HRP	Mnths 2	Increase	USD	7,200	7,200	8,000	8,000
S7Q	HRP	Mnths 2	Increase	USD	7,920	7,200	8,800	8,000
S7Q	Non-HRP	Mnth 3+	Increase	USD	6,700	6,700	7,200	7,200
S7Q	HRP	Mnth 3+	Increase	USD	7,370	6,700	7,920	7,200
<b>SYNTH 115 ARGUS PROPAN FAR EST IDX (115)</b>								
115	Non-HRP	Mnth 1	Increase	USD	6,200	6,200	6,800	6,800
115	HRP	Mnth 1	Increase	USD	6,820	6,200	7,480	6,800
115	Non-HRP	Mnth 2	Increase	USD	5,700	5,700	6,300	6,300
115	HRP	Mnth 2	Increase	USD	6,270	5,700	6,930	6,300
115	Non-HRP	Mnths 3-4	Increase	USD	5,500	5,500	6,000	6,000
115	HRP	Mnths 3-4	Increase	USD	6,050	5,500	6,600	6,000
115	Non-HRP	Months 5-7	Increase	USD	5,000	5,000	5,300	5,300
115	HRP	Months 5-7	Increase	USD	5,500	5,000	5,830	5,300
115	Non-HRP	Months 8+	Increase	USD	4,400	4,400	4,700	4,700
115	HRP	Months 8+	Increase	USD	4,840	4,400	5,170	4,700
<b>SYNTH 119 MT BELVIEU NAT GAS 5 D. O (119)</b>								
119	Non-HRP	Mnth 1	Increase	USD	740	740	820	820
119	HRP	Mnth 1	Increase	USD	814	740	902	820
119	Non-HRP	Mnths 2	Increase	USD	720	720	800	800
119	HRP	Mnths 2	Increase	USD	792	720	880	800
119	Non-HRP	Mnth 3+	Increase	USD	670	670	720	720
119	HRP	Mnth 3+	Increase	USD	737	670	792	720

## 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>EUR DIESEL10PPM BRGS FOB ARA(PLATTS (ET))</b>								
ET	Non-HRP	Mnths 1	Increase	USD	16,800	16,800	18,000	18,000
ET	HRP	Mnths 1	Increase	USD	18,480	16,800	19,800	18,000
ET	Non-HRP	Mnth 2	Increase	USD	13,500	13,500	16,000	16,000
ET	HRP	Mnth 2	Increase	USD	14,850	13,500	17,600	16,000
<b>MINIEURDIESEL10 PPM BRGS ARA(P)VS.L (MUD)</b>								
MUD	Non-HRP	Mnths 1	Increase	USD	1,680	1,680	1,800	1,800
MUD	HRP	Mnths 1	Increase	USD	1,848	1,680	1,980	1,800
MUD	Non-HRP	Mnth 2	Increase	USD	1,350	1,350	1,600	1,600
MUD	HRP	Mnth 2	Increase	USD	1,485	1,350	1,760	1,600
<b>SINGAPORE GASOIL VS ICE (GA)</b>								
GA	Non-HRP	Mnth 1	Increase	USD	3,300	3,300	3,700	3,700
GA	HRP	Mnth 1	Increase	USD	3,630	3,300	4,070	3,700
GA	Non-HRP	Mnth 2	Increase	USD	3,000	3,000	3,500	3,500
GA	HRP	Mnth 2	Increase	USD	3,300	3,000	3,850	3,500
GA	Non-HRP	Mnths 3-6	Increase	USD	2,500	2,500	2,900	2,900
GA	HRP	Mnths 3-6	Increase	USD	2,750	2,500	3,190	2,900
GA	Non-HRP	Mnths 7+	Increase	USD	1,600	1,600	1,750	1,750
GA	HRP	Mnths 7+	Increase	USD	1,760	1,600	1,925	1,750
<b>SINGAPORE JET KERO GASOIL FUT (RK)</b>								
RK	Non-HRP	Mnth 1	Increase	USD	4,500	4,500	5,800	5,800
RK	HRP	Mnth 1	Increase	USD	4,950	4,500	6,380	5,800
RK	Non-HRP	Mnth 2	Increase	USD	3,200	3,200	3,750	3,750
RK	HRP	Mnth 2	Increase	USD	3,520	3,200	4,125	3,750

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Outright Rates</b>								
<b>REFINED PRODUCTS - Outright Rates</b>								
<b>123 SYNTHET GULF COAST NO.6 FUE (123)</b>								
123	Non-HRP	Mnth 1	Increase	USD	900	900	1,100	1,100
123	HRP	Mnth 1	Increase	USD	990	900	1,210	1,100
123	Non-HRP	Mnths 2-6	Increase	USD	850	850	950	950
123	HRP	Mnths 2-6	Increase	USD	935	850	1,045	950
<b>EUROPE NAPHTHA CALFUT (UN)</b>								
UN	Non-HRP	Mths 1	Increase	USD	88,000	88,000	97,000	97,000
UN	HRP	Mths 1	Increase	USD	96,800	88,000	106,700	97,000
<b>GULF COAST HSFO (PLATTS) FUTURES (MF)</b>								
MF	Non-HRP	Mnth 1	Increase	USD	9,000	9,000	11,000	11,000
MF	HRP	Mnth 1	Increase	USD	9,900	9,000	12,100	11,000
MF	Non-HRP	Mnths 2-6	Increase	USD	8,500	8,500	9,500	9,500
MF	HRP	Mnths 2-6	Increase	USD	9,350	8,500	10,450	9,500
<b>MICRO SINGAPORE FUEL OIL 380CST (PL (MAF))</b>								
MAF	Non-HRP	Mnth 1	Increase	USD	590	590	650	650
MAF	HRP	Mnth 1	Increase	USD	649	590	715	650
MAF	Non-HRP	Mnths 2	Increase	USD	580	580	613	613
MAF	HRP	Mnths 2	Increase	USD	638	580	674	613
<b>MIN EURO NPHTHA CIF NWE FUT (MNC)</b>								
MNC	Non-HRP	Mths 1	Increase	USD	8,800	8,800	9,700	9,700
MNC	HRP	Mths 1	Increase	USD	9,680	8,800	10,670	9,700
<b>MINI SINGAPORE 380CST FUEL OIL FUT (MTS)</b>								
MTS	Non-HRP	Mnth 1	Increase	USD	5,900	5,900	6,500	6,500
MTS	HRP	Mnth 1	Increase	USD	6,490	5,900	7,150	6,500
MTS	Non-HRP	Mnths 2	Increase	USD	5,800	5,800	6,125	6,125
MTS	HRP	Mnths 2	Increase	USD	6,380	5,800	6,738	6,125
<b>MTBE FOB SINGAPORE (PLATTS) FUTURES (1NM)</b>								
1NM	Non-HRP	Mnth 1	Increase	USD	5,000	5,000	6,500	6,500
1NM	HRP	Mnth 1	Increase	USD	5,500	5,000	7,150	6,500
1NM	Non-HRP	Mnth 2	Increase	USD	5,000	5,000	6,500	6,500
1NM	HRP	Mnth 2	Increase	USD	5,500	5,000	7,150	6,500
1NM	Non-HRP	Mnths 3+	Increase	USD	5,000	5,000	6,500	6,500
1NM	HRP	Mnths 3+	Increase	USD	5,500	5,000	7,150	6,500



## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

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

#### SINGAPORE 380CST FUEL OIL FUT (SE)

SE	Non-HRP	Mnth 1	Increase	USD	59,000	59,000	65,000	65,000
SE	HRP	Mnth 1	Increase	USD	64,900	59,000	71,500	65,000
SE	Non-HRP	Mnths 2	Increase	USD	58,000	58,000	61,250	61,250
SE	HRP	Mnths 2	Increase	USD	63,800	58,000	67,375	61,250

#### SINGAPORE FOB MARINE 0.5% (PLATTS) (S53)

S53	Non-HRP	Month 1	Increase	USD	30,500	30,500	34,500	34,500
S53	HRP	Month 1	Increase	USD	33,550	30,500	37,950	34,500
S53	Non-HRP	Month 2	Increase	USD	30,250	30,250	34,250	34,250
S53	HRP	Month 2	Increase	USD	33,275	30,250	37,675	34,250
S53	Non-HRP	Month 3+	Increase	USD	30,000	30,000	34,000	34,000
S53	HRP	Month 3+	Increase	USD	33,000	30,000	37,400	34,000

#### SYNTHET GULF COAST NO.6 FUEL OIL 3 (SMF)

SMF	Non-HRP	Mnth 1	Increase	USD	9,000	9,000	11,000	11,000
SMF	HRP	Mnth 1	Increase	USD	9,900	9,000	12,100	11,000
SMF	Non-HRP	Mnths 2-6	Increase	USD	8,500	8,500	9,500	9,500
SMF	HRP	Mnths 2-6	Increase	USD	9,350	8,500	10,450	9,500

#### USGC MARINE FUEL 0.5% (PLATTS) FUT (H5F)

H5F	Non-HRP	Month 1	Increase	USD	8,500	8,500	12,100	12,100
H5F	HRP	Month 1	Increase	USD	9,350	8,500	13,310	12,100
H5F	Non-HRP	Month 2	Increase	USD	8,400	8,400	12,000	12,000
H5F	HRP	Month 2	Increase	USD	9,240	8,400	13,200	12,000
H5F	Non-HRP	Month 3+	Increase	USD	8,000	8,000	10,500	10,500
H5F	HRP	Month 3+	Increase	USD	8,800	8,000	11,550	10,500

#### USGC MARINE FUEL 0.5% BARGES (PLATT (UP5))

UP5	Non-HRP	Month 1	Increase	USD	53,975	53,975	76,835	76,835
UP5	HRP	Month 1	Increase	USD	59,373	53,975	84,519	76,835
UP5	Non-HRP	Month 2	Increase	USD	53,340	53,340	76,200	76,200
UP5	HRP	Month 2	Increase	USD	58,674	53,340	83,820	76,200
UP5	Non-HRP	Month 3+	Increase	USD	50,800	50,800	66,675	66,675
UP5	HRP	Month 3+	Increase	USD	55,880	50,800	73,343	66,675

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Intra Spreads</b>								
<b>AGRICULTURE - Intra Spreads</b>								
<b>(UAN FOB NOLA FUTURES)</b>								
UNO	Non-HRP		Increase	USD	3,000	3,000	4,000	4,000
UNO	HRP		Increase	USD	3,300	3,000	4,400	4,000
<b>(UREA (GRANULAR) CFR BRAZIL FUTURES)</b>								
UFB	Non-HRP		Increase	USD	3,300	3,300	4,500	4,500
UFB	HRP		Increase	USD	3,630	3,300	4,950	4,500
<b>(UREA (GRANULAR) FOB EGYPT FUTURES)</b>								
UFE	Non-HRP		Increase	USD	3,000	3,000	4,100	4,100
UFE	HRP		Increase	USD	3,300	3,000	4,510	4,100
<b>(UREA (GRANULAR) FOB US GULF FUTURES)</b>								
UFV	Non-HRP		Increase	USD	3,000	3,000	4,000	4,000
UFV	HRP		Increase	USD	3,300	3,000	4,400	4,000
<b>Month 1 vs Months 2+ (UREA (GRANULAR) FOB MIDDLE EAST FUT)</b>								
UME	Non-HRP		Increase	USD	1,800	1,800	2,500	2,500
UME	HRP		Increase	USD	1,980	1,800	2,750	2,500
<b>Months 2+ vs Months 2+ (UREA (GRANULAR) FOB MIDDLE EAST FUT)</b>								
UME	Non-HRP		Increase	USD	1,800	1,800	2,500	2,500
UME	HRP		Increase	USD	1,980	1,800	2,750	2,500

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Intra Spreads</b>								
<b>FX - Intra Spreads</b>								
<b>Canadian Dollar (CD) - Contracts 1-6 vs. 1-6 (CANADIAN DOLLAR FUTURES)</b>								
CD	Non-HRP		Increase	USD	55	55	65	65
CD	HRP		Increase	USD	61	55	72	65
<b>Canadian Dollar (CD) - Contracts 1-6 vs. 1-6 (MICRO CAD/USD FUTURES)</b>								
MCD	Non-HRP		Increase	USD	6	6	7	7
MCD	HRP		Increase	USD	6	6	7	7
<b>Canadian Dollar (CD) - Contracts 1-6 vs. 7-11 (CANADIAN DOLLAR FUTURES)</b>								
CD	Non-HRP		Increase	USD	120	120	150	150
CD	HRP		Increase	USD	132	120	165	150
<b>Canadian Dollar (CD) - Contracts 1-6 vs. 7-11 (MICRO CAD/USD FUTURES)</b>								
MCD	Non-HRP		Increase	USD	12	12	15	15
MCD	HRP		Increase	USD	13	12	17	15
<b>Euro FX (EC) - Contracts 7-11 vs. 7-11 (E-MINI EURO FX FUTURE)</b>								
E7	Non-HRP		Increase	USD	100	100	120	120
E7	HRP		Increase	USD	110	100	132	120
<b>Euro FX (EC) - Contracts 7-11 vs. 7-11 (EURO FUTURE)</b>								
EC	Non-HRP		Increase	USD	200	200	240	240
EC	HRP		Increase	USD	220	200	264	240
<b>Euro FX (EC) - Contracts 7-11 vs. 7-11 (MICRO EUR/USD FUTURES)</b>								
M6E	Non-HRP		Increase	USD	20	20	24	24
M6E	HRP		Increase	USD	22	20	26	24
<b>Polish Zloty (PZ) - All Months (POLISH ZLOTY FUTURES)</b>								
PZ	Non-HRP		Increase	USD	150	150	220	220
PZ	HRP		Increase	USD	165	150	242	220
<b>Russian Ruble - Tier 1 vs. Tier 1 (RU RUSSIAN RUBLE FUTURES)</b>								
RU	Non-HRP		Increase	USD	450	450	900	900
RU	HRP		Increase	USD	495	450	990	900
<b>Russian Ruble - Tier 1 vs. Tier 2 (RU RUSSIAN RUBLE FUTURES)</b>								
RU	Non-HRP		Increase	USD	600	600	1,200	1,200
RU	HRP		Increase	USD	660	600	1,320	1,200
<b>Russian Ruble - Tier 1 vs. Tier 3 (RU RUSSIAN RUBLE FUTURES)</b>								
RU	Non-HRP		Increase	USD	600	600	1,200	1,200
RU	HRP		Increase	USD	660	600	1,320	1,200

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Intra Spreads</b>								
<b>Russian Ruble - Tier 2 vs. Tier 2 (RU RUSSIAN RUBLE FUTURES)</b>								
RU	Non-HRP		Increase	USD	450	450	900	900
RU	HRP		Increase	USD	495	450	990	900
<b>Russian Ruble - Tier 2 vs. Tier 3 (RU RUSSIAN RUBLE FUTURES)</b>								
RU	Non-HRP		Increase	USD	600	600	1,200	1,200
RU	HRP		Increase	USD	660	600	1,320	1,200
<b>Russian Ruble - Tier 3 vs. Tier 3 (RU RUSSIAN RUBLE FUTURES)</b>								
RU	Non-HRP		Increase	USD	600	600	1,200	1,200
RU	HRP		Increase	USD	660	600	1,320	1,200
<b>Swiss Franc (SF) - All Months Consecutive Spreads (MICRO CHF/USD FUTURES)</b>								
MSF	Non-HRP		Increase	USD	10	10	13	13
MSF	HRP		Increase	USD	11	10	14	13
<b>Swiss Franc (SF) - All Months Consecutive Spreads (SWISS FRANC FUTURES)</b>								
SF	Non-HRP		Increase	USD	100	100	130	130
SF	HRP		Increase	USD	110	100	143	130
<b>METALS - Intra Spreads</b>								
<b>All Months (U.S. MIDWEST #1 BUSHELING FERROUS S)</b>								
BUS	Non-HRP		Increase	USD	1,100	1,100	1,650	1,650
BUS	HRP		Increase	USD	1,210	1,100	1,815	1,650
<b>Consecutive Spread - Months 02+ (U.S. MIDWEST DOMESTIC HOT-ROLLED CO)</b>								
HR	Non-HRP		Increase	USD	1,250	1,250	1,500	1,500
HR	HRP		Increase	USD	1,375	1,250	1,650	1,500
<b>Months 01 vs. Months 11+ (U.S. MIDWEST DOMESTIC HOT-ROLLED CO)</b>								
HR	Non-HRP		Increase	USD	1,050	1,050	1,400	1,400
HR	HRP		Increase	USD	1,155	1,050	1,540	1,400
<b>Months 02-10 vs. Months 11+ (U.S. MIDWEST DOMESTIC HOT-ROLLED CO)</b>								
HR	Non-HRP		Increase	USD	2,000	2,000	2,300	2,300
HR	HRP		Increase	USD	2,200	2,000	2,530	2,300
<b>Months 11+ vs. Months 11+ (U.S. MIDWEST DOMESTIC HOT-ROLLED CO)</b>								
HR	Non-HRP		Increase	USD	2,300	2,300	2,900	2,900
HR	HRP		Increase	USD	2,530	2,300	3,190	2,900

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Intra Spreads</b>								
<b>PETROLEUM CRACKS AND SPREADS - Intra Spreads</b>								
<b>SINGAPORE GASOIL (PLATTS) VS. ICE GASOIL SWAP FUTURES - Tier 1v2 (SINGAPORE GASOIL VS ICE)</b>								
GA	Non-HRP		Increase	USD	1,850	1,850	2,250	2,250
GA	HRP		Increase	USD	2,035	1,850	2,475	2,250
<b>SINGAPORE GASOIL (PLATTS) VS. ICE GASOIL SWAP FUTURES - Tier 2v2 (SINGAPORE GASOIL VS ICE)</b>								
GA	Non-HRP		Increase	USD	1,850	1,850	2,200	2,200
GA	HRP		Increase	USD	2,035	1,850	2,420	2,200
<b>SINGAPORE GASOIL (PLATTS) VS. ICE GASOIL SWAP FUTURES - Tier 3v3 (SINGAPORE GASOIL VS ICE)</b>								
GA	Non-HRP		Increase	USD	675	675	1,050	1,050
GA	HRP		Increase	USD	743	675	1,155	1,050
<b>SINGAPORE GASOIL (PLATTS) VS. ICE GASOIL SWAP FUTURES - Tiers 1v1 (SINGAPORE GASOIL VS ICE)</b>								
GA	Non-HRP		Increase	USD	1,200	1,200	1,700	1,700
GA	HRP		Increase	USD	1,320	1,200	1,870	1,700

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Intra Spreads</b>								
<b>REFINED PRODUCTS - Intra Spreads</b>								
<b>(MICRO SINGAPORE FOB MARINE FUEL 0.5)</b>								
S5O	Non-HRP		Increase	USD	285	285	370	370
S5O	HRP		Increase	USD	314	285	407	370
<b>(MINI SINGAPORE FOB MARINE FUEL 0.5%)</b>								
S5M	Non-HRP		Increase	USD	2,850	2,850	3,700	3,700
S5M	HRP		Increase	USD	3,135	2,850	4,070	3,700
<b>(SINGAPORE FOB MARINE FUEL 0.5% (PLA))</b>								
S5F	Non-HRP		Increase	USD	28,500	28,500	37,000	37,000
S5F	HRP		Increase	USD	31,350	28,500	40,700	37,000
<b>(SYNT JAPAN C&amp;F NAPHTHA FUT)</b>								
SJA	Non-HRP		Increase	USD	10,000	10,000	13,500	13,500
SJA	Non-HRP		Increase	USD	30,000	30,000	36,000	36,000
SJA	HRP		Increase	USD	11,000	10,000	14,850	13,500
SJA	HRP		Increase	USD	33,000	30,000	39,600	36,000
<b>Consecutives (SYNT GULF COAST ULSD CALENDAR FU)</b>								
SLY	Non-HRP		Increase	USD	1,100	1,100	1,650	1,650
SLY	HRP		Increase	USD	1,210	1,100	1,815	1,650
<b>Consecutives 2/3+ (EIA FLAT TAX ONHWAY DIESEL FUT)</b>								
A5	Non-HRP		Increase	USD	3,500	3,500	4,400	4,400
A5	HRP		Increase	USD	3,850	3,500	4,840	4,400
<b>Consecutives 2+ (MICRO SINGAPORE FOB MARINE FUEL 0.5)</b>								
S5O	Non-HRP		Increase	USD	73	73	120	120
S5O	HRP		Increase	USD	80	73	132	120
<b>Consecutives 2+ (MINI SINGAPORE FOB MARINE FUEL 0.5%)</b>								
S5M	Non-HRP		Increase	USD	725	725	1,200	1,200
S5M	HRP		Increase	USD	798	725	1,320	1,200
<b>Consecutives 2+ (SINGAPORE FOB MARINE FUEL 0.5% (PLA))</b>								
S5F	Non-HRP		Increase	USD	7,250	7,250	12,000	12,000
S5F	HRP		Increase	USD	7,975	7,250	13,200	12,000
<b>Consecutives 3+ (GAS EURO-BOB OXY (ARG) NEW BRG)</b>								
7H	Non-HRP		Increase	USD	8,000	8,000	9,000	9,000
7H	HRP		Increase	USD	8,800	8,000	9,900	9,000

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Intra Spreads</b>								
<b>Consecutives 3+ (MINI GAS EUROBOB OXY BARGES FUT)</b>								
MEO	Non-HRP		Increase	USD	8,000	8,000	9,000	9,000
MEO	HRP		Increase	USD	8,800	8,000	9,900	9,000
<b>Consecutives 3+ (SYNTH 116 GAS EURO-BOB OXY (ARG))</b>								
116	Non-HRP		Increase	USD	800	800	900	900
116	HRP		Increase	USD	880	800	990	900
<b>EIA FLAT TAX ON-HIGHWAY DIESEL SWAP- 1 vs 2 (EIA FLAT TAX ONHWAY DIESEL FUT)</b>								
A5	Non-HRP		Increase	USD	4,500	4,500	7,500	7,500
A5	HRP		Increase	USD	4,950	4,500	8,250	7,500
<b>EIA FLAT TAX ON-HIGHWAY DIESEL SWAP- 2+ vs 3+ (EIA FLAT TAX ONHWAY DIESEL FUT)</b>								
A5	Non-HRP		Increase	USD	6,250	6,250	10,600	10,600
A5	HRP		Increase	USD	6,875	6,250	11,660	10,600
<b>European 1% Fuel Oil Calendar Swap (Northwest Europe) - Mnths 2+ vs 2+ (EUROPE 1% FUEL OIL NWE CALFUT)</b>								
UF	Non-HRP		Increase	USD	20,000	20,000	34,000	34,000
UF	HRP		Increase	USD	22,000	20,000	37,400	34,000
<b>European 1% Fuel Oil Calendar Swap (Northwest Europe) - Mnths 2+ vs 2+ (MIN EUR 1% FUEL OIL CRGO FOBNWE FUT)</b>								
0B	Non-HRP		Increase	USD	2,000	2,000	3,400	3,400
0B	HRP		Increase	USD	2,200	2,000	3,740	3,400
<b>European 3.5% Fuel Oil Rotterdam Calendar Swap - Consecutive Months 2+ (EUROPE 3.5% FUEL OIL RDAM CALFUT)</b>								
UV	Non-HRP		Increase	USD	2,600	2,600	4,000	4,000
UV	HRP		Increase	USD	2,860	2,600	4,400	4,000
<b>European 3.5% Fuel Oil Rotterdam Calendar Swap - Consecutive Months 2+ (MICRO EUROPEAN 3.5% FUEL OIL BARGES)</b>								
MEF	Non-HRP		Increase	USD	26	26	40	40
MEF	HRP		Increase	USD	29	26	44	40
<b>European 3.5% Fuel Oil Rotterdam Calendar Swap - Consecutive Months 2+ (MINI EURO 3.5% FUEL OIL FOB RDM FUT)</b>								
0D	Non-HRP		Increase	USD	260	260	400	400
0D	HRP		Increase	USD	286	260	440	400
<b>European 3.5% Fuel Oil Rotterdam Calendar Swap - Mnths 11+ vs 11+ (EUROPE 3.5% FUEL OIL RDAM CALFUT)</b>								
UV	Non-HRP		Increase	USD	7,250	7,250	9,000	9,000
UV	HRP		Increase	USD	7,975	7,250	9,900	9,000
<b>European 3.5% Fuel Oil Rotterdam Calendar Swap - Mnths 11+ vs 11+ (MICRO EUROPEAN 3.5% FUEL OIL BARGES)</b>								
MEF	Non-HRP		Increase	USD	73	73	90	90
MEF	HRP		Increase	USD	80	73	99	90

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Intra Spreads</b>								
<b>European 3.5% Fuel Oil Rotterdam Calendar Swap - Mnths 11+ vs 11+ (MINI EURO 3.5% FUEL OIL FOB RDM FUT)</b>								
0D	Non-HRP		Increase	USD	725	725	900	900
0D	HRP		Increase	USD	798	725	990	900
<b>European 3.5% Fuel Oil Rotterdam Calendar Swap - Mnths 2-6 vs 11+ (EUROPE 3.5% FUEL OIL RDAM CALFUT)</b>								
UV	Non-HRP		Increase	USD	14,000	14,000	20,500	20,500
UV	HRP		Increase	USD	15,400	14,000	22,550	20,500
<b>European 3.5% Fuel Oil Rotterdam Calendar Swap - Mnths 2-6 vs 11+ (MICRO EUROPEAN 3.5% FUEL OIL BARGES)</b>								
MEF	Non-HRP		Increase	USD	140	140	205	205
MEF	HRP		Increase	USD	154	140	226	205
<b>European 3.5% Fuel Oil Rotterdam Calendar Swap - Mnths 2-6 vs 11+ (MINI EURO 3.5% FUEL OIL FOB RDM FUT)</b>								
0D	Non-HRP		Increase	USD	1,400	1,400	2,050	2,050
0D	HRP		Increase	USD	1,540	1,400	2,255	2,050
<b>European 3.5% Fuel Oil Rotterdam Calendar Swap - Mnths 2-6 vs 2-6 (EUROPE 3.5% FUEL OIL RDAM CALFUT)</b>								
UV	Non-HRP		Increase	USD	6,750	6,750	10,250	10,250
UV	HRP		Increase	USD	7,425	6,750	11,275	10,250
<b>European 3.5% Fuel Oil Rotterdam Calendar Swap - Mnths 2-6 vs 2-6 (MICRO EUROPEAN 3.5% FUEL OIL BARGES)</b>								
MEF	Non-HRP		Increase	USD	68	68	103	103
MEF	HRP		Increase	USD	74	68	113	103
<b>European 3.5% Fuel Oil Rotterdam Calendar Swap - Mnths 2-6 vs 2-6 (MINI EURO 3.5% FUEL OIL FOB RDM FUT)</b>								
0D	Non-HRP		Increase	USD	675	675	1,025	1,025
0D	HRP		Increase	USD	743	675	1,128	1,025
<b>European 3.5% Fuel Oil Rotterdam Calendar Swap - Mnths 2-6 vs 7-10 (EUROPE 3.5% FUEL OIL RDAM CALFUT)</b>								
UV	Non-HRP		Increase	USD	14,500	14,500	22,500	22,500
UV	HRP		Increase	USD	15,950	14,500	24,750	22,500
<b>European 3.5% Fuel Oil Rotterdam Calendar Swap - Mnths 2-6 vs 7-10 (MICRO EUROPEAN 3.5% FUEL OIL BARGES)</b>								
MEF	Non-HRP		Increase	USD	145	145	225	225
MEF	HRP		Increase	USD	160	145	248	225
<b>European 3.5% Fuel Oil Rotterdam Calendar Swap - Mnths 2-6 vs 7-10 (MINI EURO 3.5% FUEL OIL FOB RDM FUT)</b>								
0D	Non-HRP		Increase	USD	1,450	1,450	2,250	2,250
0D	HRP		Increase	USD	1,595	1,450	2,475	2,250
<b>European 3.5% Fuel Oil Rotterdam Calendar Swap - Mnths 7-10 vs 7-10 (EUROPE 3.5% FUEL OIL RDAM CALFUT)</b>								
UV	Non-HRP		Increase	USD	5,800	5,800	7,200	7,200
UV	HRP		Increase	USD	6,380	5,800	7,920	7,200



## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Intra Spreads</b>								
<b>European 3.5% Fuel Oil Rotterdam Calendar Swap - Mnths 7-10 vs 7-10 (MICRO EUROPEAN 3.5% FUEL OIL BARGES)</b>								
MEF	Non-HRP		Increase	USD	58	58	72	72
MEF	HRP		Increase	USD	64	58	79	72
<b>European 3.5% Fuel Oil Rotterdam Calendar Swap - Mnths 7-10 vs 7-10 (MINI EURO 3.5% FUEL OIL FOB RDM FUT)</b>								
0D	Non-HRP		Increase	USD	580	580	720	720
0D	HRP		Increase	USD	638	580	792	720
<b>European Naphtha Calendar Swap - consecutives (EUROPE NAPHTHA CALFUT)</b>								
UN	Non-HRP		Increase	USD	6,600	6,600	11,000	11,000
UN	HRP		Increase	USD	7,260	6,600	12,100	11,000
<b>European Naphtha Calendar Swap - consecutives (MIN EURO NPHTHA CIF NWE FUT)</b>								
MNC	Non-HRP		Increase	USD	660	660	1,100	1,100
MNC	HRP		Increase	USD	726	660	1,210	1,100
<b>European Naphtha Calendar Swap - Mnths 2-6 vs 2-6 (EUROPE NAPHTHA CALFUT)</b>								
UN	Non-HRP		Increase	USD	25,000	25,000	29,000	29,000
UN	HRP		Increase	USD	27,500	25,000	31,900	29,000
<b>European Naphtha Calendar Swap - Mnths 2-6 vs 2-6 (MIN EURO NPHTHA CIF NWE FUT)</b>								
MNC	Non-HRP		Increase	USD	2,500	2,500	2,900	2,900
MNC	HRP		Increase	USD	2,750	2,500	3,190	2,900
<b>Gasoline Euro-bob Oxy (Argus) NWE Barges Swap - Month 2 vs Months 3+ (GAS EURO-BOB OXY (ARG) NEW BRG)</b>								
7H	Non-HRP		Increase	USD	22,500	22,500	28,500	28,500
7H	HRP		Increase	USD	24,750	22,500	31,350	28,500
<b>Gasoline Euro-bob Oxy (Argus) NWE Barges Swap - Month 2 vs Months 3+ (MINI GAS EUROBOB OXY BARGES FUT)</b>								
MEO	Non-HRP		Increase	USD	22,500	22,500	28,500	28,500
MEO	HRP		Increase	USD	24,750	22,500	31,350	28,500
<b>Gasoline Euro-bob Oxy (Argus) NWE Barges Swap - Month 2 vs Months 3+ (SYNTH 116 GAS EURO-BOB OXY (ARG))</b>								
116	Non-HRP		Increase	USD	2,250	2,250	2,850	2,850
116	HRP		Increase	USD	2,475	2,250	3,135	2,850
<b>Gasoline Euro-bob Oxy (Argus) NWE Barges Swap - Months 3+ vs Months 3+ (GAS EURO-BOB OXY (ARG) NEW BRG)</b>								
7H	Non-HRP		Increase	USD	16,250	16,250	21,000	21,000
7H	HRP		Increase	USD	17,875	16,250	23,100	21,000
<b>Gasoline Euro-bob Oxy (Argus) NWE Barges Swap - Months 3+ vs Months 3+ (MINI GAS EUROBOB OXY BARGES FUT)</b>								
MEO	Non-HRP		Increase	USD	16,250	16,250	21,000	21,000
MEO	HRP		Increase	USD	17,875	16,250	23,100	21,000

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Intra Spreads</b>								
<b>Gasoline Euro-bob Oxy (Argus) NWE Barges Swap - Months 3+ vs Months 3+ (SYNTH 116 GAS EURO-BOB OXY (ARG))</b>								
116	Non-HRP		Increase	USD	1,625	1,625	2,100	2,100
116	HRP		Increase	USD	1,788	1,625	2,310	2,100
<b>Gulf Coast #6 Fuel 3.0% Swap - Consecutive Month 2+ (123 SYNTHET GULF COAST NO.6 FUE)</b>								
123	Non-HRP		Increase	USD	60	60	75	75
123	HRP		Increase	USD	66	60	83	75
<b>Gulf Coast #6 Fuel 3.0% Swap - Consecutive Month 2+ (GULF COAST HSFO (PLATTS) FUTURES)</b>								
MF	Non-HRP		Increase	USD	600	600	750	750
MF	HRP		Increase	USD	660	600	825	750
<b>Gulf Coast #6 Fuel 3.0% Swap - Month 1 vs 7-11 (123 SYNTHET GULF COAST NO.6 FUE)</b>								
123	Non-HRP		Increase	USD	275	275	325	325
123	HRP		Increase	USD	303	275	358	325
<b>Gulf Coast #6 Fuel 3.0% Swap - Month 1 vs 7-11 (GULF COAST HSFO (PLATTS) FUTURES)</b>								
MF	Non-HRP		Increase	USD	2,750	2,750	3,250	3,250
MF	HRP		Increase	USD	3,025	2,750	3,575	3,250
<b>Gulf Coast #6 Fuel 3.0% Swap - Month 2-6 vs 12+ (123 SYNTHET GULF COAST NO.6 FUE)</b>								
123	Non-HRP		Increase	USD	330	330	375	375
123	HRP		Increase	USD	363	330	413	375
<b>Gulf Coast #6 Fuel 3.0% Swap - Month 2-6 vs 12+ (GULF COAST HSFO (PLATTS) FUTURES)</b>								
MF	Non-HRP		Increase	USD	3,300	3,300	3,750	3,750
MF	HRP		Increase	USD	3,630	3,300	4,125	3,750
<b>Gulf Coast #6 Fuel 3.0% Swap - Month 2-6 vs 7-11 (123 SYNTHET GULF COAST NO.6 FUE)</b>								
123	Non-HRP		Increase	USD	275	275	330	330
123	HRP		Increase	USD	303	275	363	330
<b>Gulf Coast #6 Fuel 3.0% Swap - Month 2-6 vs 7-11 (GULF COAST HSFO (PLATTS) FUTURES)</b>								
MF	Non-HRP		Increase	USD	2,750	2,750	3,300	3,300
MF	HRP		Increase	USD	3,025	2,750	3,630	3,300
<b>Gulf Coast #6 Fuel 3.0% Swap - Months 7-11 vs 12+ (123 SYNTHET GULF COAST NO.6 FUE)</b>								
123	Non-HRP		Increase	USD	160	160	260	260
123	HRP		Increase	USD	176	160	286	260
<b>Gulf Coast #6 Fuel 3.0% Swap - Months 7-11 vs 12+ (GULF COAST HSFO (PLATTS) FUTURES)</b>								
MF	Non-HRP		Increase	USD	1,600	1,600	2,600	2,600
MF	HRP		Increase	USD	1,760	1,600	2,860	2,600

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Intra Spreads</b>								
<b>Gulf Coast #6 Fuel 3.0% Swap - Months 7-11 vs 7-11 (123 SYNTHET GULF COAST NO.6 FUE)</b>								
123	Non-HRP		Increase	USD	100	100	130	130
123	HRP		Increase	USD	110	100	143	130
<b>Gulf Coast #6 Fuel 3.0% Swap - Months 7-11 vs 7-11 (GULF COAST HSFO (PLATTS) FUTURES)</b>								
MF	Non-HRP		Increase	USD	1,000	1,000	1,300	1,300
MF	HRP		Increase	USD	1,100	1,000	1,430	1,300
<b>Gulf Coast ULSD Swap- Consecutive Month 2+ (GULF COAST ULSD CALENDAR FUT)</b>								
LY	Non-HRP		Increase	USD	1,100	1,100	1,650	1,650
LY	HRP		Increase	USD	1,210	1,100	1,815	1,650
<b>Gulf Coast ULSD Swap- Consecutive Month 2+ (SYNTH 111 GULF COAST ULSD CAL FUTUR)</b>								
111	Non-HRP		Increase	USD	110	110	165	165
111	HRP		Increase	USD	121	110	182	165
<b>Japan C&amp;F Naphtha (Platts) Swap - Consecutive (121 SYNT JAPAN C&amp;F NAPHTHA FUT)</b>								
121	Non-HRP		Increase	USD	1,000	1,000	1,350	1,350
121	HRP		Increase	USD	1,100	1,000	1,485	1,350
<b>Japan C&amp;F Naphtha (Platts) Swap - Consecutive (JAPAN C&amp;F NAPHTHA FUT)</b>								
JA	Non-HRP		Increase	USD	10,000	10,000	13,500	13,500
JA	HRP		Increase	USD	11,000	10,000	14,850	13,500
<b>Japan C&amp;F Naphtha (Platts) Swap - Consecutive (MIN JAPAN C&amp;F NAPHTHA PLATTS FUT)</b>								
MJN	Non-HRP		Increase	USD	1,000	1,000	1,350	1,350
MJN	HRP		Increase	USD	1,100	1,000	1,485	1,350
<b>Japan C&amp;F Naphtha (PLATTS) Swap - 2+ vs 2+ (121 SYNT JAPAN C&amp;F NAPHTHA FUT)</b>								
121	Non-HRP		Increase	USD	3,000	3,000	3,600	3,600
121	HRP		Increase	USD	3,300	3,000	3,960	3,600
<b>Japan C&amp;F Naphtha (PLATTS) Swap - 2+ vs 2+ (JAPAN C&amp;F NAPHTHA FUT)</b>								
JA	Non-HRP		Increase	USD	30,000	30,000	36,000	36,000
JA	HRP		Increase	USD	33,000	30,000	39,600	36,000
<b>Japan C&amp;F Naphtha (PLATTS) Swap - 2+ vs 2+ (MIN JAPAN C&amp;F NAPHTHA PLATTS FUT)</b>								
MJN	Non-HRP		Increase	USD	3,000	3,000	3,600	3,600
MJN	HRP		Increase	USD	3,300	3,000	3,960	3,600
<b>Mnth1 vs 3+ (EIA FLAT TAX ONHWAY DIESEL FUT)</b>								
A5	Non-HRP		Increase	USD	4,750	4,750	7,750	7,750
A5	HRP		Increase	USD	5,225	4,750	8,525	7,750

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Intra Spreads</b>								
<b>Mnths 2-6 vs 2-6 (GULF COAST ULSD CALENDAR FUT)</b>								
LY	Non-HRP		Increase	USD	2,125	2,125	3,500	3,500
LY	HRP		Increase	USD	2,338	2,125	3,850	3,500
<b>Mnths 2-6 vs 2-6 (SYNT GULF COAST ULSD CALENDAR FU)</b>								
SLY	Non-HRP		Increase	USD	2,125	2,125	3,500	3,500
SLY	HRP		Increase	USD	2,338	2,125	3,850	3,500
<b>Mnths 2-6 vs 2-6 (SYNTH 111 GULF COAST ULSD CAL FUTUR)</b>								
111	Non-HRP		Increase	USD	213	213	350	350
111	HRP		Increase	USD	234	213	385	350
<b>Mnths 2-6 vs 7+ (GULF COAST ULSD CALENDAR FUT)</b>								
LY	Non-HRP		Increase	USD	3,600	3,600	7,500	7,500
LY	HRP		Increase	USD	3,960	3,600	8,250	7,500
<b>Mnths 2-6 vs 7+ (SYNT GULF COAST ULSD CALENDAR FU)</b>								
SLY	Non-HRP		Increase	USD	3,600	3,600	7,500	7,500
SLY	HRP		Increase	USD	3,960	3,600	8,250	7,500
<b>Mnths 2-6 vs 7+ (SYNTH 111 GULF COAST ULSD CAL FUTUR)</b>								
111	Non-HRP		Increase	USD	360	360	750	750
111	HRP		Increase	USD	396	360	825	750
<b>Mnths 3+ vs 3+ (EIA FLAT TAX ONHWAY DIESEL FUT)</b>								
A5	Non-HRP		Increase	USD	7,200	7,200	9,500	9,500
A5	HRP		Increase	USD	7,920	7,200	10,450	9,500
<b>Mnths 7+ vs 7+ (GULF COAST ULSD CALENDAR FUT)</b>								
LY	Non-HRP		Increase	USD	2,000	2,000	2,800	2,800
LY	HRP		Increase	USD	2,200	2,000	3,080	2,800
<b>Mnths 7+ vs 7+ (SYNT GULF COAST ULSD CALENDAR FU)</b>								
SLY	Non-HRP		Increase	USD	2,000	2,000	2,800	2,800
SLY	HRP		Increase	USD	2,200	2,000	3,080	2,800
<b>Mnths 7+ vs 7+ (SYNTH 111 GULF COAST ULSD CAL FUTUR)</b>								
111	Non-HRP		Increase	USD	200	200	280	280
111	HRP		Increase	USD	220	200	308	280
<b>Month 1 vs 7-11 (SYNTHET GULF COAST NO.6 FUEL OIL 3)</b>								
SMF	Non-HRP		Increase	USD	2,750	2,750	3,250	3,250
SMF	HRP		Increase	USD	3,025	2,750	3,575	3,250

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Intra Spreads</b>								
<b>Month 2 vs Months 3+ (EUR 0.5% VS. EUR 3.5%)</b>								
R53	Non-HRP		Increase	USD	16,500	16,500	24,000	24,000
R53	HRP		Increase	USD	18,150	16,500	26,400	24,000
<b>Month 2 vs Months 3+ (EUROPEAN FOB RDAM MARINE FUEL 0.5%)</b>								
R5F	Non-HRP		Increase	USD	18,000	18,000	26,000	26,000
R5F	HRP		Increase	USD	19,800	18,000	28,600	26,000
<b>Month 2 vs Months 3+ (MICRO EURO MARINE 0.5% FO BARGES)</b>								
R5O	Non-HRP		Increase	USD	180	180	260	260
R5O	HRP		Increase	USD	198	180	286	260
<b>Month 2 vs Months 3+ (MICRO SINGAPORE FOB MARINE FUEL 0.5)</b>								
S5O	Non-HRP		Increase	USD	300	300	530	530
S5O	HRP		Increase	USD	330	300	583	530
<b>Month 2 vs Months 3+ (MINI EUROPEAN FOB RDAM MARINE FUEL)</b>								
R5M	Non-HRP		Increase	USD	1,800	1,800	2,600	2,600
R5M	HRP		Increase	USD	1,980	1,800	2,860	2,600
<b>Month 2 vs Months 3+ (MINI SINGAPORE FOB MARINE FUEL 0.5%)</b>								
S5M	Non-HRP		Increase	USD	3,000	3,000	5,300	5,300
S5M	HRP		Increase	USD	3,300	3,000	5,830	5,300
<b>Month 2 vs Months 3+ (SINGAPORE FOB MARINE FUEL 0.5% (PLA))</b>								
S5F	Non-HRP		Increase	USD	30,000	30,000	53,000	53,000
S5F	HRP		Increase	USD	33,000	30,000	58,300	53,000
<b>Month 2-6 vs 12+ (SYNTHET GULF COAST NO.6 FUEL OIL 3)</b>								
SMF	Non-HRP		Increase	USD	3,300	3,300	3,750	3,750
SMF	HRP		Increase	USD	3,630	3,300	4,125	3,750
<b>Month 2-6 vs 7-11 (SYNTHET GULF COAST NO.6 FUEL OIL 3)</b>								
SMF	Non-HRP		Increase	USD	2,750	2,750	3,300	3,300
SMF	HRP		Increase	USD	3,025	2,750	3,630	3,300
<b>Month 3 vs 3+ (USGC MARINE FUEL 0.5% (PLATTS) FUT)</b>								
H5F	Non-HRP		Increase	USD	1,250	1,250	2,100	2,100
H5F	HRP		Increase	USD	1,375	1,250	2,310	2,100
<b>Month 3 vs 3+ (USGC MARINE FUEL 0.5% BARGES (PLATT))</b>								
UP5	Non-HRP		Increase	USD	7,938	7,938	13,335	13,335
UP5	HRP		Increase	USD	8,731	7,938	14,669	13,335

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Intra Spreads</b>								
<b>Month 7-11 vs 12+ (SYNTHET GULF COAST NO.6 FUEL OIL 3)</b>								
SMF	Non-HRP		Increase	USD	1,600	1,600	2,600	2,600
SMF	HRP		Increase	USD	1,760	1,600	2,860	2,600
<b>Months 1 v 2 (USGC MARINE FUEL 0.5% (PLATTS) FUT)</b>								
H5F	Non-HRP		Increase	USD	2,800	2,800	3,900	3,900
H5F	HRP		Increase	USD	3,080	2,800	4,290	3,900
<b>Months 1 v 2 (USGC MARINE FUEL 0.5% BARGES (PLATT))</b>								
UP5	Non-HRP		Increase	USD	17,780	17,780	24,765	24,765
UP5	HRP		Increase	USD	19,558	17,780	27,242	24,765
<b>Months 2-6 vs 2-6 (MICRO SINGAPORE FUEL OIL 380CST (PL))</b>								
MAF	Non-HRP		Increase	USD	46	46	65	65
MAF	HRP		Increase	USD	51	46	72	65
<b>Months 2-6 vs 2-6 (MINI SINGAPORE 380CST FUEL OIL FUT)</b>								
MTS	Non-HRP		Increase	USD	460	460	650	650
MTS	HRP		Increase	USD	506	460	715	650
<b>Months 2-6 vs 2-6 (SINGAPORE 380CST FUEL OIL FUT)</b>								
SE	Non-HRP		Increase	USD	4,600	4,600	6,500	6,500
SE	HRP		Increase	USD	5,060	4,600	7,150	6,500
<b>Months 3+ vs Months 3+ (EUR 0.5% VS. EUR 3.5%)</b>								
R53	Non-HRP		Increase	USD	13,000	13,000	20,000	20,000
R53	HRP		Increase	USD	14,300	13,000	22,000	20,000
<b>Months 3+ vs Months 3+ (EUROPEAN FOB RDAM MARINE FUEL 0.5%)</b>								
R5F	Non-HRP		Increase	USD	14,000	14,000	20,000	20,000
R5F	HRP		Increase	USD	15,400	14,000	22,000	20,000
<b>Months 3+ vs Months 3+ (MICRO EURO MARINE 0.5% FO BARGES)</b>								
R5O	Non-HRP		Increase	USD	140	140	200	200
R5O	HRP		Increase	USD	154	140	220	200
<b>Months 3+ vs Months 3+ (MICRO SINGAPORE FOB MARINE FUEL 0.5)</b>								
S5O	Non-HRP		Increase	USD	280	280	460	460
S5O	HRP		Increase	USD	308	280	506	460
<b>Months 3+ vs Months 3+ (MINI EUROPEAN FOB RDAM MARINE FUEL)</b>								
R5M	Non-HRP		Increase	USD	1,400	1,400	2,000	2,000
R5M	HRP		Increase	USD	1,540	1,400	2,200	2,000

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Intra Spreads</b>								
<b>Months 3+ vs Months 3+ (MINI SINGAPORE FOB MARINE FUEL 0.5%)</b>								
S5M	Non-HRP		Increase	USD	2,800	2,800	4,600	4,600
S5M	HRP		Increase	USD	3,080	2,800	5,060	4,600
<b>Months 3+ vs Months 3+ (SINGAPORE FOB MARINE FUEL 0.5% (PLA))</b>								
S5F	Non-HRP		Increase	USD	28,000	28,000	46,000	46,000
S5F	HRP		Increase	USD	30,800	28,000	50,600	46,000
<b>Months 7+ vs 7+ (EUROPE NAPHTHA CALFUT)</b>								
UN	Non-HRP		Increase	USD	20,000	20,000	24,000	24,000
UN	HRP		Increase	USD	22,000	20,000	26,400	24,000
<b>Months 7+ vs 7+ (MICRO SINGAPORE FUEL OIL 380CST (PL))</b>								
MAF	Non-HRP		Increase	USD	135	135	200	200
MAF	HRP		Increase	USD	149	135	220	200
<b>Months 7+ vs 7+ (MIN EURO NPHTHA CIF NWE FUT)</b>								
MNC	Non-HRP		Increase	USD	2,000	2,000	2,400	2,400
MNC	HRP		Increase	USD	2,200	2,000	2,640	2,400
<b>Months 7+ vs 7+ (MINI SINGAPORE 380CST FUEL OIL FUT)</b>								
MTS	Non-HRP		Increase	USD	1,350	1,350	2,000	2,000
MTS	HRP		Increase	USD	1,485	1,350	2,200	2,000
<b>Months 7+ vs 7+ (SINGAPORE 380CST FUEL OIL FUT)</b>								
SE	Non-HRP		Increase	USD	13,500	13,500	20,000	20,000
SE	HRP		Increase	USD	14,850	13,500	22,000	20,000
<b>Months 7-11 vs 7-11 (SYNTHET GULF COAST NO.6 FUEL OIL 3)</b>								
SMF	Non-HRP		Increase	USD	1,000	1,000	1,300	1,300
SMF	HRP		Increase	USD	1,100	1,000	1,430	1,300
<b>Rel Period (SYNTHET GULF COAST NO.6 FUEL OIL 3)</b>								
SMF	Non-HRP		Increase	USD	600	600	750	750
SMF	HRP		Increase	USD	660	600	825	750
<b>Singapore 380CST Fuel Oil - 2-6 vs 7+ (MICRO SINGAPORE FUEL OIL 380CST (PL))</b>								
MAF	Non-HRP		Increase	USD	180	180	275	275
MAF	HRP		Increase	USD	198	180	303	275
<b>Singapore 380CST Fuel Oil - 2-6 vs 7+ (MINI SINGAPORE 380CST FUEL OIL FUT)</b>								
MTS	Non-HRP		Increase	USD	1,800	1,800	2,750	2,750
MTS	HRP		Increase	USD	1,980	1,800	3,025	2,750

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Intra Spreads</b>								
<b>Singapore 380CST Fuel Oil - 2-6 vs 7+ (SINGAPORE 380CST FUEL OIL FUT)</b>								
SE	Non-HRP		Increase	USD	18,000	18,000	27,500	27,500
SE	HRP		Increase	USD	19,800	18,000	30,250	27,500
<b>Singapore 380cst Fuel Oil Swap - 1 vs 2-6 (MICRO SINGAPORE FUEL OIL 380CST (PL))</b>								
MAF	Non-HRP		Increase	USD	145	145	180	180
MAF	HRP		Increase	USD	160	145	198	180
<b>Singapore 380cst Fuel Oil Swap - 1 vs 2-6 (MINI SINGAPORE 380CST FUEL OIL FUT)</b>								
MTS	Non-HRP		Increase	USD	1,450	1,450	1,800	1,800
MTS	HRP		Increase	USD	1,595	1,450	1,980	1,800
<b>Singapore 380cst Fuel Oil Swap - 1 vs 2-6 (SINGAPORE 380CST FUEL OIL FUT)</b>								
SE	Non-HRP		Increase	USD	14,500	14,500	18,000	18,000
SE	HRP		Increase	USD	15,950	14,500	19,800	18,000
<b>Singapore Gasoil Swap - Consecutives (MINI SINGAPORE GASOIL PLATS FUTURES)</b>								
MSG	Non-HRP		Increase	USD	150	150	225	225
MSG	HRP		Increase	USD	165	150	248	225
<b>Singapore Gasoil Swap - Consecutives (SINGAPORE GASOIL FUT)</b>								
SG	Non-HRP		Increase	USD	1,500	1,500	2,250	2,250
SG	HRP		Increase	USD	1,650	1,500	2,475	2,250
<b>Singapore Gasoil Swap - Consecutives (SYNTHETIC SINGAPORE GASOIL FUT)</b>								
SSG	Non-HRP		Increase	USD	1,500	1,500	2,250	2,250
SSG	HRP		Increase	USD	1,650	1,500	2,475	2,250
<b>Singapore Gasoil Swap - Months 1vs Months 9+ (MINI SINGAPORE GASOIL PLATS FUTURES)</b>								
MSG	Non-HRP		Increase	USD	525	525	700	700
MSG	HRP		Increase	USD	578	525	770	700
<b>Singapore Gasoil Swap - Months 1vs Months 9+ (SINGAPORE GASOIL FUT)</b>								
SG	Non-HRP		Increase	USD	5,250	5,250	7,000	7,000
SG	HRP		Increase	USD	5,775	5,250	7,700	7,000
<b>Singapore Gasoil Swap - Months 1vs Months 9+ (SYNTHETIC SINGAPORE GASOIL FUT)</b>								
SSG	Non-HRP		Increase	USD	5,250	5,250	7,000	7,000
SSG	HRP		Increase	USD	5,775	5,250	7,700	7,000
<b>Singapore Gasoil Swap - Months 2-8 vs 2-8 (MINI SINGAPORE GASOIL PLATS FUTURES)</b>								
MSG	Non-HRP		Increase	USD	490	490	600	600
MSG	HRP		Increase	USD	539	490	660	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>Singapore Gasoil Swap - Months 2-8 vs 2-8 (SINGAPORE GASOIL FUT)</b>								
SG	Non-HRP		Increase	USD	4,900	4,900	6,000	6,000
SG	HRP		Increase	USD	5,390	4,900	6,600	6,000
<b>Singapore Gasoil Swap - Months 2-8 vs 2-8 (SYNTHETIC SINGAPORE GASOIL FUT)</b>								
SSG	Non-HRP		Increase	USD	4,900	4,900	6,000	6,000
SSG	HRP		Increase	USD	5,390	4,900	6,600	6,000
<b>Singapore Gasoil Swap - Months 9+ vs Months 9+ (MINI SINGAPORE GASOIL PLATS FUTURES)</b>								
MSG	Non-HRP		Increase	USD	120	120	175	175
MSG	HRP		Increase	USD	132	120	193	175
<b>Singapore Gasoil Swap - Months 9+ vs Months 9+ (SINGAPORE GASOIL FUT)</b>								
SG	Non-HRP		Increase	USD	1,200	1,200	1,750	1,750
SG	HRP		Increase	USD	1,320	1,200	1,925	1,750
<b>Singapore Gasoil Swap - Months 9+ vs Months 9+ (SYNTHETIC SINGAPORE GASOIL FUT)</b>								
SSG	Non-HRP		Increase	USD	1,200	1,200	1,750	1,750
SSG	HRP		Increase	USD	1,320	1,200	1,925	1,750

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Inter-commodity Spread Rates</b>						
<b>AGRICULTURE - Inter-commodity Spread Rates</b>						
<b>CORN (C - CME) vs CHICAGO ETHANOL (PLATTS) SWAP FUTURES (NY-CU - CME)</b>						
Spread Credit Rate	Increase	+4:-1	45%	45%	55%	55%
<b>CME SECURITY FUTURES - Inter-commodity Spread Rates</b>						
<b>S&amp;P 500 Total Return Index All Months vs. S&amp;P 500 Annual Dividend Index Month(s) 02+</b>						
Spread Credit Rate	New	+1:-12			45%	45%
<b>COAL - Inter-commodity Spread Rates</b>						
<b>(NY-TTF - CME) vs (NY-MTF - CME)</b>						
Spread Credit Rate	Decrease	+11:-1	60%	60%	40%	40%
<b>ELECTRICITY - Inter-commodity Spread Rates</b>						
<b>(NY-TTF - CME) vs (NY-DEB - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	60%	60%	50%	50%
<b>EQUITY INDEX - Inter-commodity Spread Rates</b>						
<b>E-MINI RUSSELL 2000 INDEX FUTURES (RTY - CME) vs NIKKEI 225 YEN-BASED (N1 - CME)</b>						
Spread Credit Rate	Decrease	+3:-2	60%	60%	50%	50%
<b>E-MINI S&amp;P MIDCAP 400 (ME - CME) vs S&amp;P SELECT SECTOR - ENERGY (XAE - CME)</b>						
Spread Credit Rate	Decrease	+1:-6	55%	55%	45%	45%
<b>EMINI SP 500 ENERGY SECTOR INDEX (XAE) vs S&amp;P 500 FUTURES (SP)</b>						
Spread Credit Rate	Decrease	+10:-1	65%	65%	50%	50%
<b>NIKKEI 225 YEN-BASED (N1 - CME) vs S&amp;P SELECT SECTOR - COMMUNICATION SERVICES (XAZ - CME)</b>						
Spread Credit Rate	Decrease	+1:-2	55%	55%	45%	45%
<b>S&amp;P 500 All Months vs. S&amp;P 500 Annual Dividend Index Month(s) 02+</b>						
Spread Credit Rate	New	+1:-60			45%	45%
<b>S&amp;P 500 Total Return Index All Months vs. S&amp;P 500 Annual Dividend Index Month(s) 02+</b>						
Spread Credit Rate	New	+1:-12			45%	45%
<b>S&amp;P 500 TOTAL RETURN INDEX FUTURES (TRF - CME) vs S&amp;P SELECT SECTOR - ENERGY (XAE - CME)</b>						
Spread Credit Rate	Decrease	+2:-1	60%	60%	50%	50%
<b>S&amp;P SELECT SECTOR - ENERGY (XAE - CME) vs E-MINI DOW (\$5) FUTURES (YM - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	60%	60%	55%	55%

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Inter-commodity Spread Rates</b>						
<b>ETHANOL - Inter-commodity Spread Rates</b>						
<b>CHICAGO ETHANOL (PLATTS) SWAP FUTURES (NY-CU - CME) vs MONT BELVIEU LDH PROPANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-B0 - CME)</b>						
Spread Credit Rate	Increase	+1:-1	20%	20%	25%	25%
<b>CORN (C - CME) vs CHICAGO ETHANOL (PLATTS) SWAP FUTURES (NY-CU - CME)</b>						
Spread Credit Rate	Increase	+4:-1	45%	45%	55%	55%
<b>EIA FLAT TAX ON-HIGHWAY DIESEL SWAP FUTURES (NY-A5 - CME) vs CHICAGO ETHANOL (PLATTS) SWAP FUTURES (NY-CU - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	22%	22%	0%	0%
<b>EUROPEAN 3.5% FUEL OIL (PLATTS) BARGES FOB RDAM CALENDAR SWAP FUTURES (NY-UV - CME) vs CHICAGO ETHANOL (PLATTS) SWAP FUTURES (NY-CU - CME)</b>						
Spread Credit Rate	Decrease	+3:-19	44%	44%	25%	25%
<b>EUROPEAN GASOIL (ICE) SWAP FUTURES (NY-GX - CME) vs CHICAGO ETHANOL (PLATTS) SWAP FUTURES (NY-CU - CME)</b>						
Spread Credit Rate	Decrease	+2:-15	30%	30%	20%	20%
<b>GULF COAST ULSD (PLATTS) SWAP FUTURES (NY-LY - CME) vs CHICAGO ETHANOL (PLATTS) SWAP FUTURES (NY-CU - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	30%	30%	0%	0%
<b>MONT BELVIEU LDH PROPANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-B0 - CME) vs CHICAGO ETHANOL (PLATTS) SWAP FUTURES (NY-CU - CME)</b>						
Spread Credit Rate	Increase	-1:+1	20%	20%	25%	25%
<b>NY ETHANOL (PLATTS) SWAP FUTURES (NY-EZ - CME) vs GULF COAST ULSD (PLATTS) SWAP FUTURES (NY-LY - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	30%	30%	15%	15%

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Inter-commodity Spread Rates</b>						
<b>NATURAL GAS - Inter-commodity Spread Rates</b>						
<b>(NY-TTF - CME) vs (NY-JKY - CME)</b>						
Spread Credit Rate	Increase	+4:-1	70%	70%	85%	85%
<b>(NY-TTF - CME) vs (NY-DEB - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	60%	60%	50%	50%
<b>(NY-TTF - CME) vs (NY-JKM - CME)</b>						
Spread Credit Rate	Increase	+4:-1	75%	75%	85%	85%
<b>(NY-TTF - CME) vs (NY-MTF - CME)</b>						
Spread Credit Rate	Decrease	+11:-1	60%	60%	40%	40%
<b>(NY-TTF - CME) vs (NY-UKG - CME)</b>						
Spread Credit Rate	Decrease	+5:-4	96%	96%	90%	90%
<b>(NY-TTF - CME) vs • (NY-UKG - CME)</b>						
Spread Credit Rate	Decrease	+5:-4	96%	96%	90%	90%
<b>NG Mnth 1 vs. JKM Mnth 1</b>						
Spread Credit Rate	Decrease	+1:-1	50%	50%	30%	30%
<b>NG Mnth 1 vs. JKM Mnth 2+</b>						
Spread Credit Rate	Decrease	+1:-1	50%	50%	30%	30%
<b>NG Mnth 2+ vs. JKM Mnth 1</b>						
Spread Credit Rate	Decrease	+1:-1	50%	50%	30%	30%
<b>NG Mnths 2+ vs. JKM Mnths 2+</b>						
Spread Credit Rate	Decrease	+1:-1	50%	50%	30%	30%
<b>TTF Mnth 1 vs. NG Mnth 1</b>						
Spread Credit Rate	Decrease	+4:-1	40%	40%	20%	20%
<b>TTF Mnth 3 vs. NG Mnth 2+</b>						
Spread Credit Rate	Decrease	+4:-1	45%	45%	20%	20%
<b>TTF Mnths 2 vs. NG Mnth 1</b>						
Spread Credit Rate	Decrease	+4:-1	45%	45%	20%	20%
<b>TTF Mnths 2 vs. NG Mnths 2+</b>						
Spread Credit Rate	Decrease	+4:-1	45%	45%	20%	20%
<b>TTF Mnths 4-7 vs. NG Mnths 2+</b>						
Spread Credit Rate	Decrease	+4:-1	45%	45%	20%	20%
<b>TTF Mnths 4-7 vs. NG Mnth 1</b>						
Spread Credit Rate	Decrease	+4:-1	45%	45%	20%	20%

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Inter-commodity Spread Rates</b>						
<b>TTF Mnths 8+ vs. NG Mnth 1</b>						
Spread Credit Rate	Decrease	+4:-1	25%	25%	20%	20%
<b>TTF Mnths 8+ vs. NG Mnths 2+</b>						
Spread Credit Rate	Decrease	+4:-1	25%	25%	20%	20%
<b>TTF Mnths 1 vs. NG Mnths 2+</b>						
Spread Credit Rate	Decrease	+4:-1	45%	45%	20%	20%
<b>TTF Mnths 3 vs. NG Mnth 1</b>						
Spread Credit Rate	Decrease	+4:-1	45%	45%	20%	20%
<b>NGL/PETROCHEMICALS - Inter-commodity Spread Rates</b>						
<b>CHICAGO ETHANOL (PLATTS) SWAP FUTURES (NY-CU - CME) vs MONT BELVIEU LDH PROPANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-B0 - CME)</b>						
Spread Credit Rate	Increase	+1:-1	20%	20%	25%	25%
<b>MONT BELVIEU LDH PROPANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-B0 - CME) vs CHICAGO ETHANOL (PLATTS) SWAP FUTURES (NY-CU - CME)</b>						
Spread Credit Rate	Increase	-1:+1	20%	20%	25%	25%
<b>REFINED PRODUCTS - Inter-commodity Spread Rates</b>						
<b>EIA FLAT TAX ON-HIGHWAY DIESEL SWAP FUTURES (NY-A5 - CME) vs CHICAGO ETHANOL (PLATTS) SWAP FUTURES (NY-CU - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	22%	22%	0%	0%
<b>EUROPEAN 3.5% FUEL OIL (PLATTS) BARGES FOB RDAM CALENDAR SWAP FUTURES (NY-UV - CME) vs CHICAGO ETHANOL (PLATTS) SWAP FUTURES (NY-CU - CME)</b>						
Spread Credit Rate	Decrease	+3:-19	44%	44%	25%	25%
<b>EUROPEAN GASOIL (ICE) SWAP FUTURES (NY-GX - CME) vs CHICAGO ETHANOL (PLATTS) SWAP FUTURES (NY-CU - CME)</b>						
Spread Credit Rate	Decrease	+2:-15	30%	30%	20%	20%
<b>GULF COAST ULSD (PLATTS) SWAP FUTURES (NY-LY - CME) vs CHICAGO ETHANOL (PLATTS) SWAP FUTURES (NY-CU - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	30%	30%	0%	0%
<b>NY ETHANOL (PLATTS) SWAP FUTURES (NY-EZ - CME) vs GULF COAST ULSD (PLATTS) SWAP FUTURES (NY-LY - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	30%	30%	15%	15%

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Tier Description	Change	Current Initial	Current Maintenance	New Initial	New Maintenance
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### Volatility Scan (volScan) Rate

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

##### BRENT (ICE) CALENDAR SWAP FUTURES (BA, CY, IBS, MBC) - volScan

Clearing Member Rate	Mnth1	Increase		35.000%		44.000%
Clearing Member Rate	Mnth2	Increase		25.000%		26.000%
Clearing Member Rate	Mnth3	Increase		20.000%		25.000%
Clearing Member Rate	Mnth4	Increase		18.000%		22.000%
Clearing Member Rate	Mnth5	Increase		16.000%		20.000%
Clearing Member Rate	Mnth6	Increase		14.000%		17.000%
Clearing Member Rate	Mnth7	Increase		12.000%		15.000%

##### BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (BB, BE, BZ, BZL, BZO, BZS, BZT, IBS, OS, OSW) - volScan

Clearing Member Rate	Mnth1	Increase		35.000%		44.000%
Clearing Member Rate	Mnth2	Increase		25.000%		26.000%
Clearing Member Rate	Mnth3	Increase		20.000%		25.000%
Clearing Member Rate	Mnth4	Increase		18.000%		22.000%
Clearing Member Rate	Mnth5	Increase		16.000%		20.000%
Clearing Member Rate	Mnth6	Increase		14.000%		17.000%
Clearing Member Rate	Mnth7	Increase		12.000%		15.000%

##### BRENT CRUDE OIL PENULTIMATE FINANCIAL FUTURES (BB, BBT, MBZ, ODB, SBB) - volScan

Clearing Member Rate	Mnth1	Increase		35.000%		44.000%
Clearing Member Rate	Mnth2	Increase		25.000%		26.000%
Clearing Member Rate	Mnth3	Increase		20.000%		25.000%
Clearing Member Rate	Mnth4	Increase		18.000%		22.000%
Clearing Member Rate	Mnth5	Increase		16.000%		20.000%
Clearing Member Rate	Mnth6	Increase		14.000%		17.000%
Clearing Member Rate	Mnth7	Increase		12.000%		15.000%

##### CRUDE OIL LAST DAY FINANCIAL FUTURES (26, S26) - volScan

Clearing Member Rate	Mnth2	Increase		25.000%		31.000%
Clearing Member Rate	Mnth3	Increase		20.000%		25.000%
Clearing Member Rate	Mnth4	Increase		18.000%		22.000%
Clearing Member Rate	Mnth5	Increase		16.000%		20.000%
Clearing Member Rate	Mnth6	Increase		14.000%		17.000%
Clearing Member Rate	Mnth7	Increase		12.000%		14.000%
Clearing Member Rate	Mnth8	Increase		12.000%		13.000%
Clearing Member Rate	Mnth9	Increase		8.000%		10.000%
Clearing Member Rate	Mnth14	Increase		6.000%		8.000%
Clearing Member Rate	Mnth15	Increase		6.000%		8.000%
Clearing Member Rate	Mnth16	Increase		6.000%		8.000%
Clearing Member Rate	Mnth17	Increase		6.000%		8.000%
Clearing Member Rate	Mnth18	Increase		6.000%		8.000%
Clearing Member Rate	Mnth19	Increase		6.000%		8.000%
Clearing Member Rate	Mnth20	Increase		6.000%		7.000%

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Tier Description	Change	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Volatility Scan (volScan) Rate</b>						
Clearing Member Rate	Mnth21	Increase		6.000%		7.000%
Clearing Member Rate	Mnth22	Increase		6.000%		7.000%
Clearing Member Rate	Mnth23	Increase		6.000%		7.000%
Clearing Member Rate	Mnth24	Increase		6.000%		7.000%
Clearing Member Rate	Mnth25	Increase		6.000%		7.000%
<b>LIGHT SWEET CRUDE OIL FUTURES (C01, C02, C03, C04, C05, C06, C07, C08, C09, C10, C11, C12, C13, C14, C15, C16, C17, C18, C19, C20, C21, C22, C23, C24, C25, C26, C27, C28, C29, C30, C31, CD, CL, CLL, CLS, CLT, LC, LM1, LM2, LM3, LM4, LM5, LO, LOW, XC, XCT) - volScan</b>						
Clearing Member Rate	Mnth2	Increase		25.000%		31.000%
Clearing Member Rate	Mnth3	Increase		20.000%		25.000%
Clearing Member Rate	Mnth4	Increase		18.000%		22.000%
Clearing Member Rate	Mnth5	Increase		16.000%		20.000%
Clearing Member Rate	Mnth6	Increase		14.000%		17.000%
Clearing Member Rate	Mnth7	Increase		12.000%		14.000%
Clearing Member Rate	Mnth8	Increase		12.000%		13.000%
Clearing Member Rate	Mnth9	Increase		8.000%		10.000%
Clearing Member Rate	Mnth14	Increase		6.000%		8.000%
Clearing Member Rate	Mnth15	Increase		6.000%		8.000%
Clearing Member Rate	Mnth16	Increase		6.000%		8.000%
Clearing Member Rate	Mnth17	Increase		6.000%		8.000%
Clearing Member Rate	Mnth18	Increase		6.000%		8.000%
Clearing Member Rate	Mnth19	Increase		6.000%		8.000%
Clearing Member Rate	Mnth20	Increase		6.000%		7.000%
Clearing Member Rate	Mnth21	Increase		6.000%		7.000%
Clearing Member Rate	Mnth22	Increase		6.000%		7.000%
Clearing Member Rate	Mnth23	Increase		6.000%		7.000%
Clearing Member Rate	Mnth24	Increase		6.000%		7.000%
Clearing Member Rate	Mnth25	Increase		6.000%		7.000%
<b>WTI CALENDAR SWAP FUTURES (AO, CS) - volScan</b>						
Clearing Member Rate	Mnth2	Increase		25.000%		31.000%
Clearing Member Rate	Mnth3	Increase		20.000%		25.000%
Clearing Member Rate	Mnth4	Increase		18.000%		22.000%
Clearing Member Rate	Mnth5	Increase		16.000%		20.000%
Clearing Member Rate	Mnth6	Increase		14.000%		17.000%
Clearing Member Rate	Mnth7	Increase		12.000%		14.000%
Clearing Member Rate	Mnth8	Increase		12.000%		13.000%
Clearing Member Rate	Mnth9	Increase		8.000%		10.000%
Clearing Member Rate	Mnth14	Increase		6.000%		8.000%
Clearing Member Rate	Mnth15	Increase		6.000%		8.000%
Clearing Member Rate	Mnth16	Increase		6.000%		8.000%
Clearing Member Rate	Mnth17	Increase		6.000%		8.000%
Clearing Member Rate	Mnth18	Increase		6.000%		8.000%
Clearing Member Rate	Mnth19	Increase		6.000%		8.000%

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	<u>Tier Description</u>	Change	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Volatility Scan (volScan) Rate</b>						
Clearing Member Rate	Mnth20	Increase		6.000%		7.000%
Clearing Member Rate	Mnth21	Increase		6.000%		7.000%
Clearing Member Rate	Mnth22	Increase		6.000%		7.000%
Clearing Member Rate	Mnth23	Increase		6.000%		7.000%
Clearing Member Rate	Mnth24	Increase		6.000%		7.000%
Clearing Member Rate	Mnth25	Increase		6.000%		7.000%

### CRUDE OIL SPREADS - Volatility Scan (volScan) Rate

#### WTI MIDLAND (ARGUS) VS. WTI TRADE MONTH FUTURES (WTO, WTT) - volScan

Clearing Member Rate	Mnth 1	Increase		30.000%		35.000%
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## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Tier Description	Change	Current Initial	Current Maintenance	New Initial	New Maintenance
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### Volatility Scan (volScan) Rate

#### REFINED PRODUCTS - Volatility Scan (volScan) Rate

#### EIA FLAT TAX ON-HIGHWAY DIESEL SWAP FUTURES (A5, DAP) - volScan

Clearing Member Rate	Mnths 7+	Increase		11.000%		13.000%
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#### HEATING OIL CALENDAR SWAP FUTURES (AT, MP, QH) - volScan

Clearing Member Rate	Mnth1	Increase		40.000%		48.000%
Clearing Member Rate	Mnth2	Increase		26.000%		32.000%
Clearing Member Rate	Mnth3	Increase		20.000%		25.000%
Clearing Member Rate	Mnth4	Increase		16.000%		20.000%
Clearing Member Rate	Mnth5	Increase		16.000%		20.000%
Clearing Member Rate	Mnth11	Increase		10.000%		12.000%
Clearing Member Rate	Mnth12	Increase		10.000%		12.000%
Clearing Member Rate	Mnth13	Increase		10.000%		12.000%
Clearing Member Rate	Mnth14	Increase		10.000%		12.000%
Clearing Member Rate	Mnth15	Increase		7.000%		8.000%
Clearing Member Rate	Mnth16	Increase		7.000%		8.000%
Clearing Member Rate	Mnth17	Increase		7.000%		8.000%
Clearing Member Rate	Mnth18	Increase		7.000%		8.000%

#### HEATING OIL FINANCIAL FUTURES (BH, QH) - volScan

Clearing Member Rate	Mnth1	Increase		40.000%		48.000%
Clearing Member Rate	Mnth2	Increase		26.000%		32.000%
Clearing Member Rate	Mnth3	Increase		20.000%		25.000%
Clearing Member Rate	Mnth4	Increase		16.000%		20.000%
Clearing Member Rate	Mnth5	Increase		16.000%		20.000%
Clearing Member Rate	Mnth11	Increase		10.000%		12.000%
Clearing Member Rate	Mnth12	Increase		10.000%		12.000%
Clearing Member Rate	Mnth13	Increase		10.000%		12.000%
Clearing Member Rate	Mnth14	Increase		10.000%		12.000%
Clearing Member Rate	Mnth15	Increase		7.000%		8.000%
Clearing Member Rate	Mnth16	Increase		7.000%		8.000%
Clearing Member Rate	Mnth17	Increase		7.000%		8.000%
Clearing Member Rate	Mnth18	Increase		7.000%		8.000%

#### HEATING OIL LAST DAY FINANCIAL FUTURES (23, S23) - volScan

Clearing Member Rate	Mnth1	Increase		40.000%		48.000%
Clearing Member Rate	Mnth2	Increase		26.000%		32.000%
Clearing Member Rate	Mnth3	Increase		20.000%		25.000%
Clearing Member Rate	Mnth4	Increase		16.000%		20.000%
Clearing Member Rate	Mnth5	Increase		16.000%		20.000%
Clearing Member Rate	Mnth11	Increase		10.000%		12.000%
Clearing Member Rate	Mnth12	Increase		10.000%		12.000%
Clearing Member Rate	Mnth13	Increase		10.000%		12.000%
Clearing Member Rate	Mnth14	Increase		10.000%		12.000%

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Tier Description	Change	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Volatility Scan (volScan) Rate</b>						
Clearing Member Rate	Mnth15	Increase		7.000%		8.000%
Clearing Member Rate	Mnth16	Increase		7.000%		8.000%
Clearing Member Rate	Mnth17	Increase		7.000%		8.000%
Clearing Member Rate	Mnth18	Increase		7.000%		8.000%
<b>NEW YORK HARBOR NO. 2 HEATING OIL FUTURES (HO, HO3, HO4, HOL, HOP, HOS, HOT, LB, OH) - volScan</b>						
Clearing Member Rate	Mnth1	Increase		40.000%		48.000%
Clearing Member Rate	Mnth2	Increase		26.000%		32.000%
Clearing Member Rate	Mnth3	Increase		20.000%		25.000%
Clearing Member Rate	Mnth4	Increase		16.000%		20.000%
Clearing Member Rate	Mnth5	Increase		16.000%		20.000%
Clearing Member Rate	Mnth11	Increase		10.000%		12.000%
Clearing Member Rate	Mnth12	Increase		10.000%		12.000%
Clearing Member Rate	Mnth13	Increase		10.000%		12.000%
Clearing Member Rate	Mnth14	Increase		10.000%		12.000%
Clearing Member Rate	Mnth15	Increase		7.000%		8.000%
Clearing Member Rate	Mnth16	Increase		7.000%		8.000%
Clearing Member Rate	Mnth17	Increase		7.000%		8.000%
Clearing Member Rate	Mnth18	Increase		7.000%		8.000%
<b>RBOB GASOLINE CALENDAR SWAP FUTURES (RA, RL) - volScan</b>						
Clearing Member Rate	Mnth10	Increase		8.000%		9.000%
<b>RBOB GASOLINE FINANCIAL FUTURES (QU, RT) - volScan</b>						
Clearing Member Rate	Mnth10	Increase		8.000%		9.000%
<b>RBOB GASOLINE FUTURES (3RB, 4RB, OB, RB, RBL, RBP, RBS, RBT, RF) - volScan</b>						
Clearing Member Rate	Mnth10	Increase		8.000%		9.000%
<b>RBOB GASOLINE LAST DAY FINANCIAL FUTURES (27, S27) - volScan</b>						
Clearing Member Rate	Mnth10	Increase		8.000%		9.000%