



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

FROM: CME Clearing

SUBJECT: Performance Bond Requirements

DATE: Thursday, December 20, 2018

***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, December 21, 2018.**

Current rates as of:

**Thursday, December 20, 2018.**

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>CASH BUTTER FUTURES (CB)</b>								
CB	Spec	Months 2-4	Decrease	USD	1,430	1,300	1,210	1,100
CB	Hedge/Member	Months 2-4	Decrease	USD	1,300	1,300	1,100	1,100
CB	Spec	Months 5-9	Decrease	USD	1,430	1,300	1,210	1,100
CB	Hedge/Member	Months 5-9	Decrease	USD	1,300	1,300	1,100	1,100
CB	Spec	Month 1	Decrease	USD	770	700	605	550
CB	Hedge/Member	Month 1	Decrease	USD	700	700	550	550
CB	Spec	Months 10+	Decrease	USD	1,265	1,150	1,045	950
CB	Hedge/Member	Months 10+	Decrease	USD	1,150	1,150	950	950
<b>CASH CHEESE FUTURES (CSC)</b>								
CSC	Spec	Mnths 5	Decrease	USD	770	700	660	600
CSC	Hedge/Member	Mnths 5	Decrease	USD	700	700	600	600
CSC	Spec	Month 6	Decrease	USD	660	600	550	500
CSC	Hedge/Member	Month 6	Decrease	USD	600	600	500	500
CSC	Spec	Months 7+	Decrease	USD	495	450	440	400
CSC	Hedge/Member	Months 7+	Decrease	USD	450	450	400	400
<b>CLASS III MILK FUTURES (DA)</b>								
DA	Spec	Month 1	Decrease	USD	413	375	358	325
DA	Hedge/Member	Month 1	Decrease	USD	375	375	325	325
DA	Spec	Months 6-11	Decrease	USD	605	550	495	450
DA	Hedge/Member	Months 6-11	Decrease	USD	550	550	450	450
DA	Spec	Months 12+	Decrease	USD	468	425	413	375
DA	Hedge/Member	Months 12+	Decrease	USD	425	425	375	375
<b>MLK MID FUTURES (JQ)</b>								
JQ	Spec	Month 1	Decrease	USD	206	188	179	163
JQ	Hedge/Member	Month 1	Decrease	USD	188	188	163	163
JQ	Spec	Months 6-11	Decrease	USD	303	275	248	225
JQ	Hedge/Member	Months 6-11	Decrease	USD	275	275	225	225
JQ	Spec	Months 12+	Decrease	USD	234	213	206	188
JQ	Hedge/Member	Months 12+	Decrease	USD	213	213	188	188

## 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

#### CRUDE OIL - Outright Rates

##### DUBAI CRUDE OIL BALMO (BI)

BI	Spec	All Months	Increase	USD	5,500	5,000	6,875	6,250
BI	Hedge/Member	All Months	Increase	USD	5,000	5,000	6,250	6,250

##### MINI DUBAI CRUDE OIL (PLATTS) BALMO (DBT)

DBT	Spec	All Months	Increase	USD	550	500	688	625
DBT	Hedge/Member	All Months	Increase	USD	500	500	625	625

#### CRUDE OIL SPREADS - Outright Rates

##### BRENT OIL VS DME OMAN PLATT DUBAI (DBR)

DBR	Spec	Mnth 1	Increase	USD	935	850	1,100	1,000
DBR	Hedge/Member	Mnth 1	Increase	USD	850	850	1,000	1,000
DBR	Spec	Mnths 2+	Increase	USD	880	800	1,100	1,000
DBR	Hedge/Member	Mnths 2+	Increase	USD	800	800	1,000	1,000

##### BRENT OIL VS DME OMAN/PLATTS BALMO (DRB)

DRB	Spec		Increase	USD	1,155	1,050	1,375	1,250
DRB	Hedge/Member		Increase	USD	1,050	1,050	1,250	1,250

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Outright Rates</b>								
<b>DME Products - Outright Rates</b>								
<b>DME CRUDE OIL BALMO FUT (DDB)</b>								
DDB	Spec		Increase	USD	5,500	5,000	6,875	6,250
DDB	Hedge/Member		Increase	USD	5,000	5,000	6,250	6,250
<b>DME OMAN CRUDE CAL FUT (ODO)</b>								
ODO	Spec	Mnth 1	Increase	USD	4,950	4,500	6,325	5,750
ODO	Hedge/Member	Mnth 1	Increase	USD	4,500	4,500	5,750	5,750
ODO	Spec	Mnths 2-3	Increase	USD	4,950	4,500	6,325	5,750
ODO	Hedge/Member	Mnths 2-3	Increase	USD	4,500	4,500	5,750	5,750
ODO	Spec	Mnths 4-8	Increase	USD	4,675	4,250	6,050	5,500
ODO	Hedge/Member	Mnths 4-8	Increase	USD	4,250	4,250	5,500	5,500
ODO	Spec	Mnths 9+	Increase	USD	3,355	3,050	4,400	4,000
ODO	Hedge/Member	Mnths 9+	Increase	USD	3,050	3,050	4,000	4,000
<b>DUBAI CRUDE OIL (PLATTS) BALMO FUT (DDI)</b>								
DDI	Spec	All Months	Increase	USD	5,500	5,000	6,875	6,250
DDI	Hedge/Member	All Months	Increase	USD	5,000	5,000	6,250	6,250
<b>SPORE MOGAS 92UNLD(PLTS)VS DME OMAN (DDE)</b>								
DDE	Spec	Month 1	Decrease	USD	4,950	4,500	4,400	4,000
DDE	Hedge/Member	Month 1	Decrease	USD	4,500	4,500	4,000	4,000
DDE	Spec	Month 2+	Decrease	USD	4,950	4,500	4,400	4,000
DDE	Hedge/Member	Month 2+	Decrease	USD	4,500	4,500	4,000	4,000

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Outright Rates</b>								
<b>ELECTRICITY - Outright Rates</b>								
<b>GERMAN POWER PEAKLOAD CAL MONTH FUT (DEP)</b>								
DEP	Spec	Mnth 1	Increase	EUR	1,650	1,500	1,980	1,800
DEP	Hedge/Member	Mnth 1	Increase	EUR	1,500	1,500	1,800	1,800
DEP	Spec	Mnth 2	Increase	EUR	1,650	1,500	1,980	1,800
DEP	Hedge/Member	Mnth 2	Increase	EUR	1,500	1,500	1,800	1,800
<b>ITALIAN POWER BASELOAD GME CAL FUT (ITB)</b>								
ITB	Spec	Mnth 1	Increase	EUR	3,740	3,400	4,290	3,900
ITB	Hedge/Member	Mnth 1	Increase	EUR	3,400	3,400	3,900	3,900
ITB	Spec	Mnth 2	Increase	EUR	3,740	3,400	4,290	3,900
ITB	Hedge/Member	Mnth 2	Increase	EUR	3,400	3,400	3,900	3,900
<b>ITALIAN POWER PEAKLOAD GME CAL FUT (ITP)</b>								
ITP	Spec	Mnth 1	Increase	EUR	1,870	1,700	2,090	1,900
ITP	Hedge/Member	Mnth 1	Increase	EUR	1,700	1,700	1,900	1,900
ITP	Spec	Mnth 2	Increase	EUR	1,760	1,600	2,090	1,900
ITP	Hedge/Member	Mnth 2	Increase	EUR	1,600	1,600	1,900	1,900
<b>NEPOOL NE MASS 5MW D AH PK (P7)</b>								
P7	Spec	Mnths 6-11	Increase	USD	248	225	330	300
P7	Hedge/Member	Mnths 6-11	Increase	USD	225	225	300	300
P7	Spec	Mnths 12+	Increase	USD	248	225	303	275
P7	Hedge/Member	Mnths 12+	Increase	USD	225	225	275	275

## 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>BTIC REAL ESTATE SELECT INDEX FUT (XRT)</b>								
XRT	Spec		Increase	USD	1,265	1,150	1,485	1,350
XRT	Hedge/Member		Increase	USD	1,150	1,150	1,350	1,350
<b>BTIC SP 500 HEALTH CARE SECTOR TIC (XVT)</b>								
XVT	Spec		Increase	USD	3,410	3,100	3,740	3,400
XVT	Hedge/Member		Increase	USD	3,100	3,100	3,400	3,400
<b>DJ US REAL ESTATE BTIC (REX)</b>								
REX	Spec		Increase	USD	1,100	1,000	1,265	1,150
REX	Hedge/Member		Increase	USD	1,000	1,000	1,150	1,150
<b>DJ US REAL ESTATE INDEX (JR)</b>								
JR	Spec		Increase	USD	1,100	1,000	1,265	1,150
JR	Hedge/Member		Increase	USD	1,000	1,000	1,150	1,150
<b>DJ US REAL ESTATE SYNTHEIC (DJR)</b>								
DJR	Spec		Increase	USD	1,100	1,000	1,265	1,150
DJR	Hedge/Member		Increase	USD	1,000	1,000	1,150	1,150
<b>E-MINI REAL ESTATE INDEX MARKER (XRI)</b>								
XRI	Spec		Increase	USD	1,265	1,150	1,485	1,350
XRI	Hedge/Member		Increase	USD	1,150	1,150	1,350	1,350
<b>EMINI SP500- HEALTH CARE SECT INDEX (XAV)</b>								
XAV	Spec		Increase	USD	3,410	3,100	3,740	3,400
XAV	Hedge/Member		Increase	USD	3,100	3,100	3,400	3,400
<b>NASDAQ COMPOSITE FUTURES (QN)</b>								
QN	Spec		Increase	USD	6,600	6,000	7,480	6,800
QN	Hedge/Member		Increase	USD	6,000	6,000	6,800	6,800
<b>REAL ESTATE SELECT SECTOR FUTURES (XAR)</b>								
XAR	Spec		Increase	USD	1,265	1,150	1,485	1,350
XAR	Hedge/Member		Increase	USD	1,150	1,150	1,350	1,350
<b>S&amp;P 500 QUARLY DIVIDEND INDEX FUT (SDI)</b>								
SDI	Spec	Month 5+	Increase	USD	358	325	413	375
SDI	Hedge/Member	Month 5+	Increase	USD	325	325	375	375
<b>SP 500 HEALTH CARE SECTOR SYNTHETIC (1VT)</b>								
1VT	Spec		Increase	USD	3,410	3,100	3,740	3,400
1VT	Hedge/Member		Increase	USD	3,100	3,100	3,400	3,400

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

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

#### FREIGHT - Outright Rates

##### **FREIGHT ROUTE TC14 (BALTIC) FUTURES (FRC)**

FRC	Spec	Mnth 1	Increase	USD	2,970	2,700	3,190	2,900
FRC	Hedge/Member	Mnth 1	Increase	USD	2,700	2,700	2,900	2,900

##### **FREIGHT ROUTE TD20 (BALTIC) FUTURES (T2D)**

T2D	Spec	Mth 1	Increase	USD	1,100	1,000	1,430	1,300
T2D	Hedge/Member	Mth 1	Increase	USD	1,000	1,000	1,300	1,300

##### **FREIGHT ROUTE TD3C FUTURES (TL)**

TL	Spec	Mnths 7+	Increase	USD	605	550	660	600
TL	Hedge/Member	Mnths 7+	Increase	USD	550	550	600	600

##### **TC2 ROTTERDAM TO USAC 37K MT (TM)**

TM	Spec	Mnths 3+	Increase	USD	1,210	1,100	1,320	1,200
TM	Hedge/Member	Mnths 3+	Increase	USD	1,100	1,100	1,200	1,200
TM	Spec	Mnth 2	Increase	USD	1,430	1,300	1,650	1,500
TM	Hedge/Member	Mnth 2	Increase	USD	1,300	1,300	1,500	1,500

##### **TC5 RAS TANURA TO YOKOHAMA 55K MT (TH)**

TH	Spec	Mths 2+	Increase	USD	1,320	1,200	1,650	1,500
TH	Hedge/Member	Mths 2+	Increase	USD	1,200	1,200	1,500	1,500

#### FX - Outright Rates

##### **E-MICRO INR/USD FUTURE (MIR)**

MIR	Spec		Increase	USD	264	240	319	290
MIR	Hedge/Member		Increase	USD	240	240	290	290

##### **INR/USD FUTURE (SIR)**

SIR	Spec		Increase	USD	1,320	1,200	1,595	1,450
SIR	Hedge/Member		Increase	USD	1,200	1,200	1,450	1,450

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

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

#### NATURAL GAS - Outright Rates

##### DUTCH TTF NATURAL GAS FRONT MTH FUT (TTE)

TTE	Spec	Mnths 2	Increase	USD	6,160	5,600	6,600	6,000
TTE	Hedge/Member	Mnths 2	Increase	USD	5,600	5,600	6,000	6,000

##### HENRY HUB TTF NAT GAS SPREAD FUTURE (NYP)

NYP	Spec	Mnth 1	Increase	USD	7,975	7,250	9,625	8,750
NYP	Hedge/Member	Mnth 1	Increase	USD	7,250	7,250	8,750	8,750
NYP	Spec	Mnths 2	Increase	USD	7,425	6,750	9,240	8,400
NYP	Hedge/Member	Mnths 2	Increase	USD	6,750	6,750	8,400	8,400
NYP	Spec	Mnths 3+	Increase	USD	7,150	6,500	9,240	8,400
NYP	Hedge/Member	Mnths 3+	Increase	USD	6,500	6,500	8,400	8,400

##### HENRY HUB TTF NAT GAS SPREAD FUTURE (THD)

THD	Spec	Mnth 1	Increase	USD	7,425	6,750	9,130	8,300
THD	Hedge/Member	Mnth 1	Increase	USD	6,750	6,750	8,300	8,300
THD	Spec	Mnths 2	Increase	USD	7,150	6,500	8,800	8,000
THD	Hedge/Member	Mnths 2	Increase	USD	6,500	6,500	8,000	8,000
THD	Spec	Mnths 3+	Increase	USD	6,875	6,250	8,800	8,000
THD	Hedge/Member	Mnths 3+	Increase	USD	6,250	6,250	8,000	8,000

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

NW	Spec	Mnth 2	Increase	USD	715	650	935	850
NW	Hedge/Member	Mnth 2	Increase	USD	650	650	850	850
NW	Spec	Mnths 3-6	Increase	USD	715	650	935	850
NW	Hedge/Member	Mnths 3-6	Increase	USD	650	650	850	850
NW	Spec	Mnths 7-12	Increase	USD	715	650	935	850
NW	Hedge/Member	Mnths 7-12	Increase	USD	650	650	850	850
NW	Spec	Mnths 13-33	Increase	USD	715	650	935	850
NW	Hedge/Member	Mnths 13-33	Increase	USD	650	650	850	850
NW	Spec	Mnths 34+	Increase	USD	715	650	935	850
NW	Hedge/Member	Mnths 34+	Increase	USD	650	650	850	850

## 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>1% FUELOIL BARGES VS 1% FO PLTS BLM (EBF)</b>								
EBF	Spec		Decrease	USD	6,600	6,000	5,170	4,700
EBF	Hedge/Member		Decrease	USD	6,000	6,000	4,700	4,700
<b>1% FUELOIL FOB NWE VS 3.5% BARG FOB BA (88)</b>								
88	Spec		Decrease	USD	4,950	4,500	3,850	3,500
88	Hedge/Member		Decrease	USD	4,500	4,500	3,500	3,500
88	Spec		Decrease	USD	4,950	4,500	3,850	3,500
88	Hedge/Member		Decrease	USD	4,500	4,500	3,500	3,500
<b>3.5% FUELOIL FOB MED CRK SPD BALMO (FOA)</b>								
FOA	Spec		Decrease	USD	3,300	3,000	2,475	2,250
FOA	Hedge/Member		Decrease	USD	3,000	3,000	2,250	2,250
<b>CHICAGO UNL GAS PL VS RBOB SPR (3C)</b>								
3C	Spec	Mnth 2+	Increase	USD	2,475	2,250	3,300	3,000
3C	Hedge/Member	Mnth 2+	Increase	USD	2,250	2,250	3,000	3,000
<b>DIESEL 10P BRG FOB RDM V ICEBL (7X)</b>								
7X	Spec		Increase	USD	1,980	1,800	2,640	2,400
7X	Hedge/Member		Increase	USD	1,800	1,800	2,400	2,400
<b>E/W NAPHTHA JAPAN CF VS CRGOES CIF (EWN)</b>								
EWN	Spec	Mnths 10-15	Increase	USD	3,300	3,000	3,575	3,250
EWN	Hedge/Member	Mnths 10-15	Increase	USD	3,000	3,000	3,250	3,250
EWN	Spec	Mnths 16+	Increase	USD	3,025	2,750	3,850	3,500
EWN	Hedge/Member	Mnths 16+	Increase	USD	2,750	2,750	3,500	3,500
<b>EURO 3.5% FUEL OIL SPREAD (FK)</b>								
FK	Spec	Mnth 2-3	Increase	USD	935	850	1,155	1,050
FK	Hedge/Member	Mnth 2-3	Increase	USD	850	850	1,050	1,050
<b>EURO DIESEL 10PPM VS. ICE (ET)</b>								
ET	Spec	Mnths 1	Increase	USD	3,300	3,000	3,850	3,500
ET	Hedge/Member	Mnths 1	Increase	USD	3,000	3,000	3,500	3,500
ET	Spec	Mnth 2	Increase	USD	1,980	1,800	2,310	2,100
ET	Hedge/Member	Mnth 2	Increase	USD	1,800	1,800	2,100	2,100
<b>FUELOIL FUT: CARGOES VS. BARGES (FS)</b>								
FS	Spec	Mnths 17+	Increase	USD	4,620	4,200	5,390	4,900
FS	Hedge/Member	Mnths 17+	Increase	USD	4,200	4,200	4,900	4,900

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Outright Rates</b>								
<b>GAS EUROBOB NON-OXY VS OXY NWE FUT (GES)</b>								
GES	Spec	Mnth 1	Decrease	USD	11,550	10,500	10,450	9,500
GES	Hedge/Member	Mnth 1	Decrease	USD	10,500	10,500	9,500	9,500
GES	Spec	Mnths 2-6	Decrease	USD	11,550	10,500	10,450	9,500
GES	Hedge/Member	Mnths 2-6	Decrease	USD	10,500	10,500	9,500	9,500
GES	Spec	Mnths 7+	Decrease	USD	11,550	10,500	10,450	9,500
GES	Hedge/Member	Mnths 7+	Decrease	USD	10,500	10,500	9,500	9,500
<b>GASOLINE 10 PPM PLATTS FOB CRK SPRD (GKS)</b>								
GKS	Spec	Mnths 1-6	Increase	USD	1,265	1,150	1,650	1,500
GKS	Hedge/Member	Mnths 1-6	Increase	USD	1,150	1,150	1,500	1,500
GKS	Spec	Mnths 7+	Increase	USD	1,265	1,150	1,650	1,500
GKS	Hedge/Member	Mnths 7+	Increase	USD	1,150	1,150	1,500	1,500
<b>GLFCST JET PLATTS BALMO FUT (1M)</b>								
1M	Spec		Decrease	USD	1,650	1,500	1,375	1,250
1M	Hedge/Member		Decrease	USD	1,500	1,500	1,250	1,250
<b>GLFCST ULSD ARGUS UP/DN BALMO FUT (GUD)</b>								
GUD	Spec		Decrease	USD	1,925	1,750	1,595	1,450
GUD	Hedge/Member		Decrease	USD	1,750	1,750	1,450	1,450
<b>GRP THREE SUB-OCT GS (PLT) VS RBOB (A8)</b>								
A8	Spec	Mnths 2-4	Increase	USD	825	750	1,018	925
A8	Hedge/Member	Mnths 2-4	Increase	USD	750	750	925	925
<b>GRP3 ULSD VS NY HRBR ULSD FUT (A6)</b>								
A6	Spec	Mnth 1	Increase	USD	715	650	880	800
A6	Hedge/Member	Mnth 1	Increase	USD	650	650	800	800
<b>JET FUEL BRG FOB RDM V ICE BLM (9Q)</b>								
9Q	Spec		Decrease	USD	13,750	12,500	10,450	9,500
9Q	Hedge/Member		Decrease	USD	12,500	12,500	9,500	9,500
<b>LA CARBOB GASOLINE(OPIS)FUT (JL)</b>								
JL	Spec	Mth 1	Increase	USD	4,125	3,750	5,500	5,000
JL	Hedge/Member	Mth 1	Increase	USD	3,750	3,750	5,000	5,000
JL	Spec	Mths 2+	Decrease	USD	4,125	3,750	3,740	3,400
JL	Hedge/Member	Mths 2+	Decrease	USD	3,750	3,750	3,400	3,400
<b>MIN ULSD 10PPM CRGS CIF NWE VS GSL (MGN)</b>								
MGN	Spec	Mnth 1	Increase	USD	204	185	259	235
MGN	Hedge/Member	Mnth 1	Increase	USD	185	185	235	235
MGN	Spec	Mnth 2	Increase	USD	138	125	165	150
MGN	Hedge/Member	Mnth 2	Increase	USD	125	125	150	150

## 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 EUR DIESEL10PPM VS ICE GS FUT (MUD)</b>								
MUD	Spec	Mnths 1	Increase	USD	330	300	385	350
MUD	Hedge/Member	Mnths 1	Increase	USD	300	300	350	350
MUD	Spec	Mnth 2	Increase	USD	198	180	231	210
MUD	Hedge/Member	Mnth 2	Increase	USD	180	180	210	210
<b>NEW YORK FUEL OIL 1% V. EURO 1% FO (NYF)</b>								
NYF	Spec	Mnth 2	Increase	USD	990	900	1,210	1,100
NYF	Hedge/Member	Mnth 2	Increase	USD	900	900	1,100	1,100
NYF	Spec	Mnths 3+	Increase	USD	715	650	880	800
NYF	Hedge/Member	Mnths 3+	Increase	USD	650	650	800	800
<b>NY 1% FO (PLATTS) V GF CO HSFO BAL (NFG)</b>								
NFG	Spec		Decrease	USD	3,300	3,000	2,750	2,500
NFG	Hedge/Member		Decrease	USD	3,000	3,000	2,500	2,500
<b>NY BUCKEYE JET FUEL VS NY HARB ULSD (JET)</b>								
JET	Spec	Mnth 1	Decrease	USD	1,210	1,100	990	900
JET	Hedge/Member	Mnth 1	Decrease	USD	1,100	1,100	900	900
JET	Spec	Mnths 3+	Increase	USD	990	900	1,100	1,000
JET	Hedge/Member	Mnths 3+	Increase	USD	900	900	1,000	1,000
<b>NY FO 1% VS EURO 1%FOB NWE BALMO (NYG)</b>								
NYG	Spec	Tier 1	Decrease	USD	2,200	2,000	1,760	1,600
NYG	Hedge/Member	Tier 1	Decrease	USD	2,000	2,000	1,600	1,600
NYG	Spec	Tier 2	Decrease	USD	2,200	2,000	1,760	1,600
NYG	Hedge/Member	Tier 2	Decrease	USD	2,000	2,000	1,600	1,600
<b>NY HARBOR RESIDUAL FUEL CRACK FUT (ML)</b>								
ML	Spec	Mnths 2+	Increase	USD	1,650	1,500	2,090	1,900
ML	Hedge/Member	Mnths 2+	Increase	USD	1,500	1,500	1,900	1,900
<b>RBOB SPREAD (PLATTS) FUT (RI)</b>								
RI	Spec		Decrease	USD	1,320	1,200	1,100	1,000
RI	Hedge/Member		Decrease	USD	1,200	1,200	1,000	1,000
<b>SINGAPORE GASOIL VS ICE (GA)</b>								
GA	Spec	Mnths 3-6	Decrease	USD	660	600	550	500
GA	Hedge/Member	Mnths 3-6	Decrease	USD	600	600	500	500
GA	Spec	Mnths 6+	Decrease	USD	660	600	495	450
GA	Hedge/Member	Mnths 6+	Decrease	USD	600	600	450	450
<b>SINGAPORE JET KERO GASOIL FUT (RK)</b>								
RK	Spec	Mnth 3+	Decrease	USD	468	425	358	325
RK	Hedge/Member	Mnth 3+	Decrease	USD	425	425	325	325

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Outright Rates</b>								
<b>SPORE FUEL OIL 180CST 6.35 DUBAI CK (STS)</b>								
STS	Spec	Mnth 1	Increase	USD	1,980	1,800	2,365	2,150
STS	Hedge/Member	Mnth 1	Increase	USD	1,800	1,800	2,150	2,150
STS	Spec	Mnths 2+	Increase	USD	1,980	1,800	2,365	2,150
STS	Hedge/Member	Mnths 2+	Increase	USD	1,800	1,800	2,150	2,150
<b>SPORE FUELOIL 180CST 6.35 DUBAI BLM (STB)</b>								
STB	Spec		Decrease	USD	4,400	4,000	3,300	3,000
STB	Hedge/Member		Decrease	USD	4,000	4,000	3,000	3,000
<b>ULSD 10P CRG CIF NW V ICE BL (3V)</b>								
3V	Spec		Decrease	USD	5,500	5,000	4,400	4,000
3V	Hedge/Member		Decrease	USD	5,000	5,000	4,000	4,000
3V	Spec	Tier 2	Decrease	USD	5,500	5,000	4,400	4,000
3V	Hedge/Member	Tier 2	Decrease	USD	5,000	5,000	4,000	4,000
3V	Spec	Tier 3	Decrease	USD	5,500	5,000	4,400	4,000
3V	Hedge/Member	Tier 3	Decrease	USD	5,000	5,000	4,000	4,000
<b>ULSD 10PPM CIF V. ICE GAS BLMO (7V)</b>								
7V	Spec		Increase	USD	2,860	2,600	3,300	3,000
7V	Hedge/Member		Increase	USD	2,600	2,600	3,000	3,000
<b>ULSD 10PPM V. ICE FUT (TP)</b>								
TP	Spec	Mnth 1	Increase	USD	2,035	1,850	2,585	2,350
TP	Hedge/Member	Mnth 1	Increase	USD	1,850	1,850	2,350	2,350
TP	Spec	Mnth 2	Increase	USD	1,375	1,250	1,650	1,500
TP	Hedge/Member	Mnth 2	Increase	USD	1,250	1,250	1,500	1,500

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Outright Rates</b>								
<b>REFINED PRODUCTS - Outright Rates</b>								
<b>1% FUEL OIL (PLT) CARG CIF MED (1W)</b>								
1W	Spec	Mth 1	Increase	USD	29,535	26,850	33,000	30,000
1W	Hedge/Member	Mth 1	Increase	USD	26,850	26,850	30,000	30,000
1W	Spec	Mths 2+	Increase	USD	29,535	26,850	33,000	30,000
1W	Hedge/Member	Mths 2+	Increase	USD	26,850	26,850	30,000	30,000
<b>1% FUEL OIL (PLT) CARG CIF NWE (1X)</b>								
1X	Spec		Increase	USD	23,320	21,200	27,225	24,750
1X	Hedge/Member		Increase	USD	21,200	21,200	24,750	24,750
<b>1% FUEL OIL PLATTS CIF BALMO FUT (FOB)</b>								
FOB	Spec		Increase	USD	29,700	27,000	36,300	33,000
FOB	Hedge/Member		Increase	USD	27,000	27,000	33,000	33,000
<b>3.5% FUEL OIL CID MED FUT (7D)</b>								
7D	Spec		Increase	USD	29,150	26,500	33,000	30,000
7D	Hedge/Member		Increase	USD	26,500	26,500	30,000	30,000
<b>3.5% FUEL OIL CIF BALMO FUT (8D)</b>								
8D	Spec		Increase	USD	33,000	30,000	40,700	37,000
8D	Hedge/Member		Increase	USD	30,000	30,000	37,000	37,000
<b>EAST-WEST FUEL OIL PLT BALMO FUT (EWB)</b>								
EWB	Spec		Increase	USD	6,050	5,500	7,425	6,750
EWB	Hedge/Member		Increase	USD	5,500	5,500	6,750	6,750
<b>EIA FLAT TAX ONHWAY DIESEL FUT (A5)</b>								
A5	Spec	Mnths 7+	Increase	USD	4,400	4,000	4,730	4,300
A5	Hedge/Member	Mnths 7+	Increase	USD	4,000	4,000	4,300	4,300
<b>EUR3.5%FUEL OIL CARG FOB MED BALMO (EFF)</b>								
EFF	Spec		Increase	USD	30,800	28,000	34,100	31,000
EFF	Hedge/Member		Increase	USD	28,000	28,000	31,000	31,000
<b>EURO 1% FUEL OIL NEW BALMO (KX)</b>								
KX	Spec	Tier 1	Increase	USD	30,800	28,000	36,850	33,500
KX	Hedge/Member	Tier 1	Increase	USD	28,000	28,000	33,500	33,500
KX	Spec	Tier 2	Increase	USD	30,800	28,000	36,850	33,500
KX	Hedge/Member	Tier 2	Increase	USD	28,000	28,000	33,500	33,500
<b>EUROBOB GAS10PPM BALMO (7S)</b>								
7S	Spec		Increase	USD	46,750	42,500	53,625	48,750
7S	Hedge/Member		Increase	USD	42,500	42,500	48,750	48,750

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Outright Rates</b>								
<b>EUROBOB GAS10PPM (PLTS) RD FOB (7P)</b>								
7P	Spec	Mnth 1	Increase	USD	36,300	33,000	42,900	39,000
7P	Hedge/Member	Mnth 1	Increase	USD	33,000	33,000	39,000	39,000
7P	Spec	Mnths 2+	Increase	USD	35,200	32,000	42,900	39,000
7P	Hedge/Member	Mnths 2+	Increase	USD	32,000	32,000	39,000	39,000
<b>EUROPE 1% FUEL OIL NWE CALFUT (UF)</b>								
UF	Spec	Mnth 1	Increase	USD	27,830	25,300	29,700	27,000
UF	Hedge/Member	Mnth 1	Increase	USD	25,300	25,300	27,000	27,000
UF	Spec	Mnths 2-6	Increase	USD	27,225	24,750	29,700	27,000
UF	Hedge/Member	Mnths 2-6	Increase	USD	24,750	24,750	27,000	27,000
UF	Spec	Mnths 7+	Increase	USD	26,565	24,150	29,425	26,750
UF	Hedge/Member	Mnths 7+	Increase	USD	24,150	24,150	26,750	26,750
<b>EUROPEAN NAPHTHA BALMO (KZ)</b>								
KZ	Spec	Mnth 1	Increase	USD	35,750	32,500	46,750	42,500
KZ	Hedge/Member	Mnth 1	Increase	USD	32,500	32,500	42,500	42,500
KZ	Spec	Mnths 2+	Increase	USD	35,750	32,500	46,750	42,500
KZ	Hedge/Member	Mnths 2+	Increase	USD	32,500	32,500	42,500	42,500
<b>GULF COAST ULSD CALENDAR FUT (LY)</b>								
LY	Spec	Mnth 1	Increase	USD	4,510	4,100	4,950	4,500
LY	Hedge/Member	Mnth 1	Increase	USD	4,100	4,100	4,500	4,500
LY	Spec	Mnths 2-6	Increase	USD	4,400	4,000	4,950	4,500
LY	Hedge/Member	Mnths 2-6	Increase	USD	4,000	4,000	4,500	4,500
LY	Spec	Mnths 7-12	Increase	USD	4,345	3,950	4,730	4,300
LY	Hedge/Member	Mnths 7-12	Increase	USD	3,950	3,950	4,300	4,300
LY	Spec	Mnths 13+	Increase	USD	4,125	3,750	4,620	4,200
LY	Hedge/Member	Mnths 13+	Increase	USD	3,750	3,750	4,200	4,200
<b>JAPAN NAPHTHA BALMO FUT (E6)</b>								
E6	Spec		Increase	USD	41,800	38,000	54,450	49,500
E6	Hedge/Member		Increase	USD	38,000	38,000	49,500	49,500
<b>JET AVIA FUEL(PLTT) CRGS FOB M (1T)</b>								
1T	Spec		Increase	USD	33,000	30,000	37,400	34,000
1T	Hedge/Member		Increase	USD	30,000	30,000	34,000	34,000
<b>JET FUEL BARGES RDAM BALMO (X9)</b>								
X9	Spec		Decrease	USD	38,500	35,000	34,100	31,000
X9	Hedge/Member		Decrease	USD	35,000	35,000	31,000	31,000

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Outright Rates</b>								
<b>LOS ANGELES CARB GASOLINE FUT (MH)</b>								
MH	Spec		Increase	USD	4,950	4,500	5,500	5,000
MH	Hedge/Member		Increase	USD	4,500	4,500	5,000	5,000
<b>MIN 1% FUEL OIL CIF CARGOES FUTURES (MFP)</b>								
MFP	Spec		Increase	USD	2,332	2,120	2,723	2,475
MFP	Hedge/Member		Increase	USD	2,120	2,120	2,475	2,475
<b>MIN EUR 1% FUEL OIL CRGO FOBNWE FUT (0B)</b>								
0B	Spec	Mnth 1	Increase	USD	2,783	2,530	2,970	2,700
0B	Hedge/Member	Mnth 1	Increase	USD	2,530	2,530	2,700	2,700
0B	Spec	Mnths 2-6	Increase	USD	2,723	2,475	2,970	2,700
0B	Hedge/Member	Mnths 2-6	Increase	USD	2,475	2,475	2,700	2,700
0B	Spec	Mnths 7+	Increase	USD	2,657	2,415	2,943	2,675
0B	Hedge/Member	Mnths 7+	Increase	USD	2,415	2,415	2,675	2,675
<b>MIN SPORE FUELOIL380CST(PLTS) BALMO (MTB)</b>								
MTB	Spec	Tier 1	Increase	USD	2,750	2,500	3,300	3,000
MTB	Hedge/Member	Tier 1	Increase	USD	2,500	2,500	3,000	3,000
MTB	Spec	Tier 2	Decrease	USD	2,750	2,500	330	300
MTB	Hedge/Member	Tier 2	Decrease	USD	2,500	2,500	300	300
<b>MINEUR1%FUEL OIL CRGO FOB NWE BALMO (0C)</b>								
0C	Spec	Tier 1	Increase	USD	3,080	2,800	3,685	3,350
0C	Hedge/Member	Tier 1	Increase	USD	2,800	2,800	3,350	3,350
0C	Spec	Tier 2	Increase	USD	3,080	2,800	3,685	3,350
0C	Hedge/Member	Tier 2	Increase	USD	2,800	2,800	3,350	3,350
<b>MINI EURO NAPHTHA BALMO FUT (MEN)</b>								
MEN	Spec	Mnth 1	Increase	USD	3,575	3,250	4,675	4,250
MEN	Hedge/Member	Mnth 1	Increase	USD	3,250	3,250	4,250	4,250
MEN	Spec	Mnths 2+	Increase	USD	3,575	3,250	4,675	4,250
MEN	Hedge/Member	Mnths 2+	Increase	USD	3,250	3,250	4,250	4,250
<b>MINI JAPAN NAPHTHA BALMO FUT (E6M)</b>								
E6M	Spec		Increase	USD	4,180	3,800	5,445	4,950
E6M	Hedge/Member		Increase	USD	3,800	3,800	4,950	4,950

## 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 NAPHTHA CARGOES CIF NWE ARGUS (NCF)</b>								
NCF	Spec	Mths 1	Increase	USD	3,630	3,300	4,620	4,200
NCF	Hedge/Member	Mths 1	Increase	USD	3,300	3,300	4,200	4,200
NCF	Spec	Mths 2-6	Increase	USD	3,630	3,300	4,620	4,200
NCF	Hedge/Member	Mths 2-6	Increase	USD	3,300	3,300	4,200	4,200
NCF	Spec	Mnths 7+	Increase	USD	3,630	3,300	4,620	4,200
NCF	Hedge/Member	Mnths 7+	Increase	USD	3,300	3,300	4,200	4,200
<b>NEW YORK 3% FUEL OIL BALMO FUT (NYT)</b>								
NYT	Spec	Tier 1	Increase	USD	4,950	4,500	5,500	5,000
NYT	Hedge/Member	Tier 1	Increase	USD	4,500	4,500	5,000	5,000
NYT	Spec	Tier 2	Increase	USD	4,950	4,500	5,500	5,000
NYT	Hedge/Member	Tier 2	Increase	USD	4,500	4,500	5,000	5,000
<b>NY (ARGUS) VS. NY HRBR ULSD BALMO (ULB)</b>								
ULB	Spec		Decrease	USD	1,100	1,000	880	800
ULB	Hedge/Member		Decrease	USD	1,000	1,000	800	800
<b>NY 3.0% FUEL OIL (PLATTS) FUT (H1)</b>								
H1	Spec		Increase	USD	3,630	3,300	4,400	4,000
H1	Hedge/Member		Increase	USD	3,300	3,300	4,000	4,000
<b>NY HARBOR 1% FUEL OIL BALMO (VK)</b>								
VK	Spec	Tier 1	Increase	USD	4,400	4,000	5,500	5,000
VK	Hedge/Member	Tier 1	Increase	USD	4,000	4,000	5,000	5,000
VK	Spec	Tier 2	Increase	USD	3,850	3,500	4,675	4,250
VK	Hedge/Member	Tier 2	Increase	USD	3,500	3,500	4,250	4,250
<b>PREM UNL GAS 10 PPM BALMO (7N)</b>								
7N	Spec		Increase	USD	46,750	42,500	58,300	53,000
7N	Hedge/Member		Increase	USD	42,500	42,500	53,000	53,000
<b>PREM UNL GAS 10 PPM (PLTS) RDM (7L)</b>								
7L	Spec		Increase	USD	39,600	36,000	48,400	44,000
7L	Hedge/Member		Increase	USD	36,000	36,000	44,000	44,000
<b>PREMIUM UNLD 10P FOB MED FUT (3G)</b>								
3G	Spec	Mnth 1	Increase	USD	46,475	42,250	49,500	45,000
3G	Hedge/Member	Mnth 1	Increase	USD	42,250	42,250	45,000	45,000
3G	Spec	Mnths 2+	Increase	USD	46,200	42,000	49,500	45,000
3G	Hedge/Member	Mnths 2+	Increase	USD	42,000	42,000	45,000	45,000
<b>PREMIUM UNLD 10PPM CARGOES CIF (4G)</b>								
4G	Spec		Increase	USD	39,600	36,000	46,200	42,000
4G	Hedge/Member		Increase	USD	36,000	36,000	42,000	42,000

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Outright Rates</b>								
<b>PREMIUM UNLEAD 10PPM FOB BLMO (8G)</b>								
8G	Spec		Increase	USD	36,300	33,000	46,750	42,500
8G	Hedge/Member		Increase	USD	33,000	33,000	42,500	42,500
<b>SG VISCOSITY SPREAD BALMO (MSD)</b>								
MSD	Spec		Decrease	USD	3,575	3,250	2,750	2,500
MSD	Hedge/Member		Decrease	USD	3,250	3,250	2,500	2,500
<b>SINGAPORE 380CST BALMO (BT)</b>								
BT	Spec	Tier 1	Increase	USD	27,500	25,000	33,000	30,000
BT	Hedge/Member	Tier 1	Increase	USD	25,000	25,000	30,000	30,000
BT	Spec	Tier 2	Decrease	USD	27,500	25,000	3,300	3,000
BT	Hedge/Member	Tier 2	Decrease	USD	25,000	25,000	3,000	3,000
<b>SINGAPORE GASOIL BALMO (VU)</b>								
VU	Spec	Tier 1	Increase	USD	4,400	4,000	5,225	4,750
VU	Hedge/Member	Tier 1	Increase	USD	4,000	4,000	4,750	4,750
VU	Spec	Tier 2	Increase	USD	4,400	4,000	5,225	4,750
VU	Hedge/Member	Tier 2	Increase	USD	4,000	4,000	4,750	4,750
<b>SINGAPORE JET KERO BALMO (BX)</b>								
BX	Spec	Mnth 1	Increase	USD	4,950	4,500	6,050	5,500
BX	Hedge/Member	Mnth 1	Increase	USD	4,500	4,500	5,500	5,500
BX	Spec	Mnths 2+	Increase	USD	4,950	4,500	6,050	5,500
BX	Hedge/Member	Mnths 2+	Increase	USD	4,500	4,500	5,500	5,500
<b>SINGAPORE JET KEROSENE FUT (KS)</b>								
KS	Spec	Mnth 1	Increase	USD	4,400	4,000	4,840	4,400
KS	Hedge/Member	Mnth 1	Increase	USD	4,000	4,000	4,400	4,400
KS	Spec	Mnths 2-6	Increase	USD	4,125	3,750	4,840	4,400
KS	Hedge/Member	Mnths 2-6	Increase	USD	3,750	3,750	4,400	4,400
KS	Spec	Mnths 7+	Increase	USD	3,850	3,500	4,400	4,000
KS	Hedge/Member	Mnths 7+	Increase	USD	3,500	3,500	4,000	4,000
<b>SINGAPORE MOGAS 95 BALMO FUT (W0)</b>								
W0	Spec		Decrease	USD	6,188	5,625	5,500	5,000
W0	Hedge/Member		Decrease	USD	5,625	5,625	5,000	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>SYNTHETI SINGAPORE JET KEROSENE FUT (SKS)</b>								
SKS	Spec	Mnth 1	Increase	USD	4,400	4,000	4,840	4,400
SKS	Hedge/Member	Mnth 1	Increase	USD	4,000	4,000	4,400	4,400
SKS	Spec	Mnths 2-6	Increase	USD	4,125	3,750	4,840	4,400
SKS	Hedge/Member	Mnths 2-6	Increase	USD	3,750	3,750	4,400	4,400
SKS	Spec	Mnths 7+	Increase	USD	3,850	3,500	4,400	4,000
SKS	Hedge/Member	Mnths 7+	Increase	USD	3,500	3,500	4,000	4,000
<b>ULSD 10PPM CIF MED BALMO FUT (X7)</b>								
X7	Spec		Increase	USD	33,000	30,000	35,750	32,500
X7	Hedge/Member		Increase	USD	30,000	30,000	32,500	32,500
<b>ULSD 10PPM CIF NW BALMO FUT (B1)</b>								
B1	Spec		Increase	USD	30,800	28,000	35,750	32,500
B1	Hedge/Member		Increase	USD	28,000	28,000	32,500	32,500

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Intra Spreads</b>								
<b>AGRICULTURE - Intra Spreads</b>								
<b>(BLACK SEA WHEAT FIN STL PLATTS FUT)</b>								
BWF	Spec		Increase	USD	138	125	193	175
BWF	Hedge/Member		Increase	USD	125	125	175	175
<b>DME Products - Intra Spreads</b>								
<b>Months 2+ vs 2+ (SINGAPORE FUEL OIL 180CST PLATTS FUT)</b>								
DUP	Spec		Increase	USD	4,400	4,000	5,775	5,250
DUP	Hedge/Member		Increase	USD	4,000	4,000	5,250	5,250
<b>Months 2-3 vs 4+ (SINGAPORE FUEL OIL 380CST PLATT FUT)</b>								
DSE	Spec		Increase	USD	3,850	3,500	4,840	4,400
DSE	Hedge/Member		Increase	USD	3,500	3,500	4,400	4,400
<b>ELECTRICITY - Intra Spreads</b>								
<b>NEPOOL NE MASS 5 MW DAY AHEAD OFF PEAK - All Months (NEPOOL NE MASS 5MW D AH O PK)</b>								
P8	Spec		Increase	USD	22	20	31	28
P8	Hedge/Member		Increase	USD	20	20	28	28
<b>NEPOOL NE MASS 5 MW DAY AHEAD PEAK - All Months (NEPOOL NE MASS 5MW D AH PK)</b>								
P7	Spec		Increase	USD	440	400	605	550
P7	Hedge/Member		Increase	USD	400	400	550	550
<b>PJM Financially Settled Monthly Futures - Peak - All Months (PJM MONTHLY)</b>								
JM	Spec		Increase	USD	2,750	2,500	3,850	3,500
JM	Hedge/Member		Increase	USD	2,500	2,500	3,500	3,500

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Intra Spreads</b>								
<b>EQUITY INDEX - Intra Spreads</b>								
<b>Dow Jones (CBOT) (11) - Month 2 vs 3 (BTIC ON E-MINI DJIA FUTURES)</b>								
YMT	Spec		Increase	USD	165	150	204	185
YMT	Hedge/Member		Increase	USD	150	150	185	185
<b>Dow Jones (CBOT) (11) - Month 2 vs 3 (E-MINI DJIA FUTURES MARKER)</b>								
YMI	Spec		Increase	USD	165	150	204	185
YMI	Hedge/Member		Increase	USD	150	150	185	185
<b>Dow Jones (CBOT) (11) - Month 2 vs 3 (E-MINI DOW (\$5) FUTURES)</b>								
YM	Spec		Increase	USD	165	150	204	185
YM	Hedge/Member		Increase	USD	150	150	185	185
<b>Dow Jones (CBOT) (11) - Month 2 vs 4 (BTIC ON E-MINI DJIA FUTURES)</b>								
YMT	Spec		Decrease	USD	264	240	259	235
YMT	Hedge/Member		Decrease	USD	240	240	235	235
<b>Dow Jones (CBOT) (11) - Month 2 vs 4 (E-MINI DJIA FUTURES MARKER)</b>								
YMI	Spec		Decrease	USD	264	240	259	235
YMI	Hedge/Member		Decrease	USD	240	240	235	235
<b>Dow Jones (CBOT) (11) - Month 2 vs 4 (E-MINI DOW (\$5) FUTURES)</b>								
YM	Spec		Decrease	USD	264	240	259	235
YM	Hedge/Member		Decrease	USD	240	240	235	235
<b>Dow Jones (CBOT) (11) - Month 3 vs 4 (BTIC ON E-MINI DJIA FUTURES)</b>								
YMT	Spec		Increase	USD	264	240	297	270
YMT	Hedge/Member		Increase	USD	240	240	270	270
<b>Dow Jones (CBOT) (11) - Month 3 vs 4 (E-MINI DJIA FUTURES MARKER)</b>								
YMI	Spec		Increase	USD	264	240	297	270
YMI	Hedge/Member		Increase	USD	240	240	270	270
<b>Dow Jones (CBOT) (11) - Month 3 vs 4 (E-MINI DOW (\$5) FUTURES)</b>								
YM	Spec		Increase	USD	264	240	297	270
YM	Hedge/Member		Increase	USD	240	240	270	270



## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Intra Spreads</b>								
<b>E-MINI RUSSELL 2000 (RTY) - Month 2 vs 3+ (BTIC ON EMINI RUSSELL 2000 INDEX FU)</b>								
RLT	Spec		Increase	USD	165	150	237	215
RLT	Hedge/Member		Increase	USD	150	150	215	215
<b>E-MINI RUSSELL 2000 (RTY) - Month 2 vs 3+ (EMINI RUSSELL 2000 INDEX FUTURES)</b>								
RTY	Spec		Increase	USD	165	150	237	215
RTY	Hedge/Member		Increase	USD	150	150	215	215
<b>Nasdaq-100 Index (ND) - Month 1 vs 2 (BTIC ON E-MINI NASDAQ-100 FUTURES)</b>								
NQT	Spec		Increase	USD	61	55	77	70
NQT	Hedge/Member		Increase	USD	55	55	70	70
<b>Nasdaq-100 Index (ND) - Month 1 vs 2 (E-MINI NASDAQ 100 FUTURES)</b>								
NQ	Spec		Increase	USD	61	55	77	70
NQ	Hedge/Member		Increase	USD	55	55	70	70
<b>Nasdaq-100 Index (ND) - Month 1 vs 2 (E-MINI NASDAQ-100 FUTURES MARKER)</b>								
NQI	Spec		Increase	USD	61	55	77	70
NQI	Hedge/Member		Increase	USD	55	55	70	70
<b>S&amp;P 500 Annual Dividend Index Future: Months 7-9 vs Months 7-9 (S&amp;P 500 ANNUAL DIVIDEND INDEX FUT)</b>								
SDA	Spec		Increase	USD	165	150	182	165
SDA	Hedge/Member		Increase	USD	150	150	165	165
<b>S&amp;P 500 Stock Index - Month 1 vs 2 (BTIC ON E-MINI S&amp;P 500 FUTURES)</b>								
EST	Spec		Increase	USD	55	50	66	60
EST	Hedge/Member		Increase	USD	50	50	60	60
<b>S&amp;P 500 Stock Index - Month 1 vs 2 (E-MINI S&amp;P 500 FUTURES MARKER)</b>								
ESI	Spec		Increase	USD	55	50	66	60
ESI	Hedge/Member		Increase	USD	50	50	60	60
<b>S&amp;P 500 Stock Index - Month 1 vs 2 (E-MINI S&amp;P 500 FUTURES)</b>								
ES	Spec		Increase	USD	55	50	66	60
ES	Hedge/Member		Increase	USD	50	50	60	60
<b>S&amp;P 500 Stock Index - Month 1 vs 2 (S&amp;P 500 FUTURES)</b>								
SP	Spec		Increase	USD	275	250	330	300
SP	Hedge/Member		Increase	USD	250	250	300	300
<b>S&amp;P 500 Stock Index - Month 1 vs 2 (TACO ON E-MINI S&amp;P 500 FUTURES)</b>								
ESQ	Spec		Increase	USD	55	50	66	60
ESQ	Hedge/Member		Increase	USD	50	50	60	60

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Intra Spreads</b>								
<b>S&amp;P 500 Stock Index - Month 1 vs 3 (BTIC ON E-MINI S&amp;P 500 FUTURES)</b>								
EST	Spec		Increase	USD	77	70	110	100
EST	Hedge/Member		Increase	USD	70	70	100	100
<b>S&amp;P 500 Stock Index - Month 1 vs 3 (E-MINI S&amp;P 500 FUTURES MARKER)</b>								
ESI	Spec		Increase	USD	77	70	110	100
ESI	Hedge/Member		Increase	USD	70	70	100	100
<b>S&amp;P 500 Stock Index - Month 1 vs 3 (E-MINI S&amp;P 500 FUTURES)</b>								
ES	Spec		Increase	USD	77	70	110	100
ES	Hedge/Member		Increase	USD	70	70	100	100
<b>S&amp;P 500 Stock Index - Month 1 vs 3 (S&amp;P 500 FUTURES)</b>								
SP	Spec		Increase	USD	385	350	550	500
SP	Hedge/Member		Increase	USD	350	350	500	500
<b>S&amp;P 500 Stock Index - Month 1 vs 3 (TACO ON E-MINI S&amp;P 500 FUTURES)</b>								
ESQ	Spec		Increase	USD	77	70	110	100
ESQ	Hedge/Member		Increase	USD	70	70	100	100
<b>S&amp;P 500 Stock Index - Month 2 vs 3 (BTIC ON E-MINI S&amp;P 500 FUTURES)</b>								
EST	Spec		Increase	USD	61	55	66	60
EST	Hedge/Member		Increase	USD	55	55	60	60
<b>S&amp;P 500 Stock Index - Month 2 vs 3 (E-MINI S&amp;P 500 FUTURES MARKER)</b>								
ESI	Spec		Increase	USD	61	55	66	60
ESI	Hedge/Member		Increase	USD	55	55	60	60
<b>S&amp;P 500 Stock Index - Month 2 vs 3 (E-MINI S&amp;P 500 FUTURES)</b>								
ES	Spec		Increase	USD	61	55	66	60
ES	Hedge/Member		Increase	USD	55	55	60	60
<b>S&amp;P 500 Stock Index - Month 2 vs 3 (S&amp;P 500 FUTURES)</b>								
SP	Spec		Increase	USD	303	275	330	300
SP	Hedge/Member		Increase	USD	275	275	300	300
<b>S&amp;P 500 Stock Index - Month 2 vs 3 (TACO ON E-MINI S&amp;P 500 FUTURES)</b>								
ESQ	Spec		Increase	USD	61	55	66	60
ESQ	Hedge/Member		Increase	USD	55	55	60	60
<b>S&amp;P 500 Stock Index - Month 2 vs 4 (BTIC ON E-MINI S&amp;P 500 FUTURES)</b>								
EST	Spec		Increase	USD	248	225	253	230
EST	Hedge/Member		Increase	USD	225	225	230	230

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Intra Spreads</b>								
<b>S&amp;P 500 Stock Index - Month 2 vs 4 (E-MINI S&amp;P 500 FUTURES MARKER)</b>								
ESI	Spec		Increase	USD	248	225	253	230
ESI	Hedge/Member		Increase	USD	225	225	230	230
<b>S&amp;P 500 Stock Index - Month 2 vs 4 (E-MINI S&amp;P 500 FUTURES)</b>								
ES	Spec		Increase	USD	248	225	253	230
ES	Hedge/Member		Increase	USD	225	225	230	230
<b>S&amp;P 500 Stock Index - Month 2 vs 4 (S&amp;P 500 FUTURES)</b>								
SP	Spec		Increase	USD	1,238	1,125	1,265	1,150
SP	Hedge/Member		Increase	USD	1,125	1,125	1,150	1,150
<b>S&amp;P 500 Stock Index - Month 2 vs 4 (TACO ON E-MINI S&amp;P 500 FUTURES)</b>								
ESQ	Spec		Increase	USD	248	225	253	230
ESQ	Hedge/Member		Increase	USD	225	225	230	230
<b>S&amp;P 500 Stock Index - Month 3 vs 4 (BTIC ON E-MINI S&amp;P 500 FUTURES)</b>								
EST	Spec		Increase	USD	220	200	253	230
EST	Hedge/Member		Increase	USD	200	200	230	230
<b>S&amp;P 500 Stock Index - Month 3 vs 4 (E-MINI S&amp;P 500 FUTURES MARKER)</b>								
ESI	Spec		Increase	USD	220	200	253	230
ESI	Hedge/Member		Increase	USD	200	200	230	230
<b>S&amp;P 500 Stock Index - Month 3 vs 4 (E-MINI S&amp;P 500 FUTURES)</b>								
ES	Spec		Increase	USD	220	200	253	230
ES	Hedge/Member		Increase	USD	200	200	230	230
<b>S&amp;P 500 Stock Index - Month 3 vs 4 (S&amp;P 500 FUTURES)</b>								
SP	Spec		Increase	USD	1,100	1,000	1,265	1,150
SP	Hedge/Member		Increase	USD	1,000	1,000	1,150	1,150
<b>S&amp;P 500 Stock Index - Month 3 vs 4 (TACO ON E-MINI S&amp;P 500 FUTURES)</b>								
ESQ	Spec		Increase	USD	220	200	253	230
ESQ	Hedge/Member		Increase	USD	200	200	230	230
<b>S&amp;P 500/Citigroup Growth Index - All Months (BTIC S&amp;P 500 / GROWTH)</b>								
SGT	Spec		Increase	USD	1,980	1,800	2,530	2,300
SGT	Hedge/Member		Increase	USD	1,800	1,800	2,300	2,300
<b>S&amp;P 500/Citigroup Growth Index - All Months (S&amp;P 500 / GROWTH SYNT MARKER)</b>								
TGT	Spec		Increase	USD	1,980	1,800	2,530	2,300
TGT	Hedge/Member		Increase	USD	1,800	1,800	2,300	2,300

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

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

#### S&P 500/Citigroup Growth Index - All Months (S&P/ CITIGROUP GROWTH INDEX FUTURES)

SG	Spec		Increase	USD	1,980	1,800	2,530	2,300
SG	Hedge/Member		Increase	USD	1,800	1,800	2,300	2,300

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Intra Spreads</b>								
<b>INTEREST RATES - Intra Spreads</b>								
<b>10 Year Treasury Note Tier 1 vs. Tier 1 (10Y TREASURY NOTE FUTURES)</b>								
21	Spec		Increase	USD	231	210	286	260
21	Hedge/Member		Increase	USD	210	210	260	260
<b>21 - 10 Year Note Tier 2 vs. Tier 2 (10Y TREASURY NOTE FUTURES)</b>								
21	Spec		Increase	USD	286	260	341	310
21	Hedge/Member		Increase	USD	260	260	310	310
<b>21 - 10 Year Treasury Tier 1 (months 1-2) vs. Tier 2 (months 3+) (10Y TREASURY NOTE FUTURES)</b>								
21	Spec		Increase	USD	286	260	341	310
21	Hedge/Member		Increase	USD	260	260	310	310
<b>5 Year Treasury Note (25) - Tier 1 [months 1 - 2] vs Tier 2 [months 3+] (5 YR TREASURY NOTE FUTURES)</b>								
25	Spec		Increase	USD	176	160	231	210
25	Hedge/Member		Increase	USD	160	160	210	210
<b>5 Year Treasury Note (25) - Tier 2 [months 3+] vs Tier 2 [months 3+] (5 YR TREASURY NOTE FUTURES)</b>								
25	Spec		Increase	USD	176	160	231	210
25	Hedge/Member		Increase	USD	160	160	210	210
<b>U.S. Treasury Bond (17) - Month 1 vs. Month 2 (30 YR U.S. TREASURY BOND FUTURES)</b>								
17	Spec		Increase	USD	506	460	633	575
17	Hedge/Member		Increase	USD	460	460	575	575
<b>U.S. Treasury Bond (17) - Month 1 vs. Month 3 (30 YR U.S. TREASURY BOND FUTURES)</b>								
17	Spec		Increase	USD	715	650	825	750
17	Hedge/Member		Increase	USD	650	650	750	750
<b>U.S. Treasury Bond (17) - Month 2 vs. Month 3 (30 YR U.S. TREASURY BOND FUTURES)</b>								
17	Spec		Increase	USD	715	650	825	750
17	Hedge/Member		Increase	USD	650	650	750	750
<b>U.S. Treasury Bond (17) - Month 2+ vs. Month 2+ (30 YR U.S. TREASURY BOND FUTURES)</b>								
17	Spec		Increase	USD	506	460	633	575
17	Hedge/Member		Increase	USD	460	460	575	575
<b>Ultra 10-Year U.S. Treasury Note Futures Tier 1 vs. Tier 1 (ULTRA 10-YEAR U S TREASURY NOTE FUT)</b>								
TN	Spec		Increase	USD	286	260	358	325
TN	Hedge/Member		Increase	USD	260	260	325	325
<b>Ultra 10-Year U.S. Treasury Note Futures Tier 1 vs. Tier 2 (ULTRA 10-YEAR U S TREASURY NOTE FUT)</b>								
TN	Spec		Increase	USD	286	260	374	340
TN	Hedge/Member		Increase	USD	260	260	340	340

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Intra Spreads</b>								
<b>Ultra 10-Year U.S. Treasury Note Futures Tier 2 vs. Tier 2 (ULTRA 10-YEAR U S TREASURY NOTE FUT)</b>								
TN	Spec		Increase	USD	286	260	374	340
TN	Hedge/Member		Increase	USD	260	260	340	340
<b>Ultra Long Bond (UBE) - All Months (LONG TERM U.S. TREASURY BOND FUTURE)</b>								
UBE	Spec		Increase	USD	605	550	748	680
UBE	Hedge/Member		Increase	USD	550	550	680	680
<b>NATURAL GAS - Intra Spreads</b>								
<b>Centerpoint Basis (Platts IFERC) Swap - All Months (ENABLE NAT GAS BASIS FUT)</b>								
PW	Spec		Increase	USD	132	120	176	160
PW	Hedge/Member		Increase	USD	120	120	160	160
<b>EI Paso Natural Gas Co. Permian Basin Basis Swap - All Months (PERMIAN BASIS FUT)</b>								
PM	Spec		Increase	USD	605	550	770	700
PM	Hedge/Member		Increase	USD	550	550	700	700
<b>NORTH NAT GAS VENTURA, IOWA (PF) - All Months (VENTURA BASIS FUT)</b>								
PF	Spec		Increase	USD	550	500	660	600
PF	Hedge/Member		Increase	USD	500	500	600	600
<b>Northwest Pipeline, Rockies Basis Swap - All Months (NORTHWEST PIPELINE BASIS FUT)</b>								
NR	Spec		Increase	USD	660	600	825	750
NR	Hedge/Member		Increase	USD	600	600	750	750
<b>TETCO STX BASIS (TX) - All Months (TETCO STX BASIS)</b>								
TX	Spec		Increase	USD	374	340	495	450
TX	Hedge/Member		Increase	USD	340	340	450	450
<b>Waha Basis Swap - All Months (WAHA TEXAS BASIS FUT)</b>								
NW	Spec		Increase	USD	495	450	660	600
NW	Hedge/Member		Increase	USD	450	450	600	600
<b>PETROLEUM CRACKS AND SPREADS - Intra Spreads</b>								
<b>Gasoil 10ppm Cargoes CIF NWE v. ICE Gasoil Swap - All Months (MIN ULSD 10PPM CRGS CIF NWE VS GSL)</b>								
MGN	Spec		Increase	USD	110	100	138	125
MGN	Hedge/Member		Increase	USD	100	100	125	125
<b>Gasoil 10ppm Cargoes CIF NWE v. ICE Gasoil Swap - All Months (ULSD 10PPM V. ICE FUT)</b>								
TP	Spec		Increase	USD	1,100	1,000	1,375	1,250
TP	Hedge/Member		Increase	USD	1,000	1,000	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>REFINED PRODUCTS - Intra Spreads</b>								
<b>EIA FLAT TAX ON-HIGHWAY DIESEL SWAP- 1 vs 2+ (EIA FLAT TAX ONHWAY DIESEL FUT)</b>								
A5	Spec		Increase	USD	2,420	2,200	3,080	2,800
A5	Hedge/Member		Increase	USD	2,200	2,200	2,800	2,800
<b>European 3.5% Fuel Oil MED Calendar Swap (Mediterranean) - Month 1 vs Months 2+ (EUROPE 3.5% FUEL OIL MED CALFUT)</b>								
UI	Spec		Increase	USD	4,950	4,500	5,775	5,250
UI	Hedge/Member		Increase	USD	4,500	4,500	5,250	5,250
<b>European 3.5% Fuel Oil MED Calendar Swap (Mediterranean) - Month 1 vs Months 2+ (MINI 3.5% FUEL OIL CAR MED FUT)</b>								
MMF	Spec		Increase	USD	495	450	578	525
MMF	Hedge/Member		Increase	USD	450	450	525	525
<b>European 3.5% Fuel Oil Rotterdam Calendar Swap - Mnths 2-6 vs 2-6 (EUROPE 3.5% FUEL OIL RDAM CALFUT)</b>								
UV	Spec		Increase	USD	2,750	2,500	3,300	3,000
UV	Hedge/Member		Increase	USD	2,500	2,500	3,000	3,000
<b>European 3.5% Fuel Oil Rotterdam Calendar Swap - Mnths 2-6 vs 2-6 (MICRO EUROPEAN 3.5% FUEL OIL BARGES)</b>								
MEF	Spec		Increase	USD	28	25	33	30
MEF	Hedge/Member		Increase	USD	25	25	30	30
<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	Spec		Increase	USD	275	250	330	300
0D	Hedge/Member		Increase	USD	250	250	300	300
<b>European 3.5% Fuel Oil Rotterdam Calendar Swap - Mnths 7-13 vs 14+ (EUROPE 3.5% FUEL OIL RDAM CALFUT)</b>								
UV	Spec		Increase	USD	4,125	3,750	4,730	4,300
UV	Hedge/Member		Increase	USD	3,750	3,750	4,300	4,300
<b>European 3.5% Fuel Oil Rotterdam Calendar Swap - Mnths 7-13 vs 14+ (MICRO EUROPEAN 3.5% FUEL OIL BARGES)</b>								
MEF	Spec		Increase	USD	41	38	47	43
MEF	Hedge/Member		Increase	USD	38	38	43	43
<b>European 3.5% Fuel Oil Rotterdam Calendar Swap - Mnths 7-13 vs 14+ (MINI EURO 3.5% FUEL OIL FOB RDM FUT)</b>								
0D	Spec		Increase	USD	413	375	473	430
0D	Hedge/Member		Increase	USD	375	375	430	430
<b>European Singapore Fuel Oil 180cst Calendar Swap - Months 2+ vs Months 2+ (MINI SINGP FUEL OIL 180CST FUTURES)</b>								
0F	Spec		Increase	USD	495	450	578	525
0F	Hedge/Member		Increase	USD	450	450	525	525

## 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 Singapore Fuel Oil 180cst Calendar Swap - Months 2+ vs Months 2+ (SINGAPORE FUEL 180CST CALFUT)</b>								
UA	Spec		Increase	USD	4,950	4,500	5,775	5,250
UA	Hedge/Member		Increase	USD	4,500	4,500	5,250	5,250
<b>JET AVIA FUEL (PLATTS) CARGOES FOB MED - All Months (JET AVIA FUEL(PLTT) CRGS FOB M)</b>								
1T	Spec		Increase	USD	7,480	6,800	9,680	8,800
1T	Hedge/Member		Increase	USD	6,800	6,800	8,800	8,800
<b>Month 3 vs 4+ (GULF COAST HSFO (PLATTS) FUTURES)</b>								
MF	Spec		Increase	USD	385	350	468	425
MF	Hedge/Member		Increase	USD	350	350	425	425
<b>Month 3 vs 4+ (SYNTHET GULF COAST NO.6 FUEL OIL 3)</b>								
SMF	Spec		Increase	USD	385	350	468	425
SMF	Hedge/Member		Increase	USD	350	350	425	425
<b>Months 4+ vs 4+ (GULF COAST HSFO (PLATTS) FUTURES)</b>								
MF	Spec		Increase	USD	385	350	468	425
MF	Hedge/Member		Increase	USD	350	350	425	425
<b>Months 4+ vs 4+ (SYNTHET GULF COAST NO.6 FUEL OIL 3)</b>								
SMF	Spec		Increase	USD	385	350	468	425
SMF	Hedge/Member		Increase	USD	350	350	425	425
<b>Singapore 380CST Fuel Oil - 2-3 vs 4+ (MICRO SINGAPORE FUEL OIL 380CST (PL))</b>								
MAF	Spec		Increase	USD	39	35	44	40
MAF	Hedge/Member		Increase	USD	35	35	40	40
<b>Singapore 380CST Fuel Oil - 2-3 vs 4+ (MINI SINGAPORE 380CST FUEL OIL FUT)</b>								
MTS	Spec		Increase	USD	385	350	440	400
MTS	Hedge/Member		Increase	USD	350	350	400	400
<b>Singapore 380CST Fuel Oil - 2-3 vs 4+ (SINGAPORE 380CST FUEL OIL FUT)</b>								
SE	Spec		Increase	USD	3,850	3,500	4,400	4,000
SE	Hedge/Member		Increase	USD	3,500	3,500	4,000	4,000

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
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### Inter-commodity Spread Rates

#### AGRICULTURE - Inter-commodity Spread Rates

##### DA (Class 3 Milk) vs DB (Cash Butter) vs DY (Dry Whey) vs CSC (Cash Settled Cheese) – Months 1-5 vs Months 1-5

Spread Credit Rate	Increase	+100:-4:-27:-96	80%	80%	86%	86%
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##### MILK CLASS III (DA - CME) vs CASH SETTLED CHEESE (CSC - CME) & DRY WHEY (DY - CME) (Mths 1-5 vs Mths 1-5)

Spread Credit Rate	Decrease	+4:-4:-1	87%	87%	86%	86%
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##### MILK CLASS IV (DK - CME) vs NONFAT DRY MILK (NF - CME) vs CASH SETTLED BUTTER (DB - CME) (Mths 1-5 vs 1-5)

Spread Credit Rate	Increase	+5:-2:-2	50%	50%	68%	68%
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#### CRUDE OIL - Inter-commodity Spread Rates

##### DUBAI CRUDE OIL (PLATTS) CALENDAR SWAP FUTURES (NY-DC - CME) vs SINGAPORE NAPHTHA (PLATTS) SWAP FUTURES (NY-SP - CME)

Spread Credit Rate	Decrease	+1:-1	45%	45%	38%	38%
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##### DUBAI CRUDE OIL CALENDAR SWAP (NYM-DC - CME) vs SINGAPORE GASOIL SWAP (NYM-SG - CME)

Spread Credit Rate	Decrease	+1:-1	68%	68%	61%	61%
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##### DUBAI CRUDE OIL CALENDAR SWAP (NYM-DC - CME) vs SINGAPORE JET KEROSENE SWAP (NYM-KS - CME)

Spread Credit Rate	Decrease	+1:-1	60%	60%	57%	57%
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##### DUBAI CRUDE OIL CALENDAR SWAP (NYM-DC - CME) vs SINGAPORE NAPHTHA SWAP (NYM-SP - CME)

Spread Credit Rate	Decrease	+1:-1	45%	45%	38%	38%
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##### LIGHT SWEET CRUDE OIL FUTURES (NY-CL - CME) vs SINGAPORE JET KEROSENE (PLATTS) SWAP FUTURES (NY-KS - CME)

Spread Credit Rate	Decrease	+1:-1	65%	65%	59%	59%
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##### LIGHT SWEET CRUDE OIL FUTURES (NY-CL, CS, WS) vs GULF COAST HEATING OIL (ARGUS) SWAP FUTURES (NY-4U - CME)

Spread Credit Rate	Decrease	+1:-1	63%	63%	52%	52%
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##### LIGHT SWEET CRUDE OIL FUTURES (NY-CL, CS, WS) vs NY HEATING OIL (PLATTS) SWAP FUTURES (NY-YF - CME)

Spread Credit Rate	Decrease	+1:-1	60%	60%	51%	51%
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##### LIGHT SWEET CRUDE OIL FUTURES (NY-CL, CS, WS) vs SINGAPORE JET KEROSENE (PLATTS) SWAP FUTURES (NY-KS - CME)

Spread Credit Rate	Decrease	+1:-1	65%	65%	59%	59%
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#### ETHANOL - Inter-commodity Spread Rates

##### NY ETHANOL (PLATTS) SWAP FUTURES (NY-EZ - CME) vs GULF COAST NO. 6 FUEL OIL 3.0% (PLATTS) SWAP FUTURES (NY-MF - CME)

Spread Credit Rate	Decrease	+1:-1	45%	45%	35%	35%
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## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
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### Inter-commodity Spread Rates

#### NATURAL GAS - Inter-commodity Spread Rates

##### NGPL MID-CON BASIS SWAP (PLATTS IFERC) FUTURES (NY-NL - CME) vs WAHA BASIS SWAP (PLATTS IFERC) FUTURES (NY-NW - CME)

Spread Credit Rate	Decrease	+1:-1	30%	30%	0%	0%
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##### PANHANDLE BASIS SWAP (PLATTS IFERC) (NYM-PH - CME) vs EL PASO NATURAL GAS CO. PERMIAN BASIN BASIS SWAP (NYM-PM - CME)

Spread Credit Rate	Decrease	+1:-1	50%	50%	25%	25%
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##### PANHANDLE BASIS SWAP (PLATTS IFERC) (NYM-PH - CME) vs WAHA BASIS SWAP (PLATTS IFERC) (NYM-NW - CME)

Spread Credit Rate	Decrease	+1:-1	25%	25%	0%	0%
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##### WAHA BASIS SWAP (PLATTS IFERC) (NYM-NW - CME) vs SAN JUAN BASIS SWAP (PLATTS IFERC) (NYM-NJ - CME)

Spread Credit Rate	Decrease	+1:-1	45%	45%	25%	25%
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#### NGL/PETROCHEMICALS - Inter-commodity Spread Rates

##### EUROPEAN 1% FUEL OIL (PLATTS) BARGES FOB RDAM CALENDAR SWAP FUTURES (NY-UH - CME) vs MONT BELVIEU LDH PROPANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-B0 - CME)

Spread Credit Rate	Decrease	+1:-1	30%	30%	15%	15%
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#### PETROLEUM CRACKS AND SPREADS - Inter-commodity Spread Rates

##### DIESEL 10PPM (PLATTS) BARGES FOB RDAM VS. ICE GASOIL BALMO SWAP FUTURES (NY-7X - CME) vs EUROPEAN GASOIL 10 PPM (PLATTS) BARGES FOB RDAM VS. GASOIL FUTURES SWAP (NY-ET - CME)

Spread Credit Rate	Decrease	+1:-1	70%	70%	60%	60%
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## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Inter-commodity Spread Rates</b>						
<b>REFINED PRODUCTS - Inter-commodity Spread Rates</b>						
<b>DUBAI CRUDE OIL (PLATTS) CALENDAR SWAP FUTURES (NY-DC - CME) vs SINGAPORE NAPHTHA (PLATTS) SWAP FUTURES (NY-SP - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	45%	45%	38%	38%
<b>DUBAI CRUDE OIL CALENDAR SWAP (NYM-DC - CME) vs SINGAPORE GASOIL SWAP (NYM-SG - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	68%	68%	61%	61%
<b>DUBAI CRUDE OIL CALENDAR SWAP (NYM-DC - CME) vs SINGAPORE JET KEROSENE SWAP (NYM-KS - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	60%	60%	57%	57%
<b>DUBAI CRUDE OIL CALENDAR SWAP (NYM-DC - CME) vs SINGAPORE NAPHTHA SWAP (NYM-SP - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	45%	45%	38%	38%
<b>EUROPEAN 1% FUEL OIL (PLATTS) BARGES FOB RDAM CALENDAR SWAP FUTURES (NY-UH - CME) vs MONT BELVIEU LDH PROPANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-B0 - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	30%	30%	15%	15%
<b>GULF COAST JET FUEL (PLATTS) CALENDAR SWAP FUTURES (NY-GE - CME) vs SINGAPORE GASOIL (PLATTS) SWAP FUTURES (NY-SG - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	66%	66%	55%	55%
<b>GULF COAST ULSD (PLATTS) SWAP FUTURES (NY-LY - CME) vs SINGAPORE JET KEROSENE (PLATTS) SWAP FUTURES (NY-KS - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	65%	65%	60%	60%
<b>LIGHT SWEET CRUDE OIL FUTURES (NY-CL - CME) vs SINGAPORE JET KEROSENE (PLATTS) SWAP FUTURES (NY-KS - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	65%	65%	59%	59%
<b>LIGHT SWEET CRUDE OIL FUTURES (NY-CL, CS, WS) vs GULF COAST HEATING OIL (ARGUS) SWAP FUTURES (NY-4U - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	63%	63%	52%	52%
<b>LIGHT SWEET CRUDE OIL FUTURES (NY-CL, CS, WS) vs NY HEATING OIL (PLATTS) SWAP FUTURES (NY-YF - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	60%	60%	51%	51%
<b>LIGHT SWEET CRUDE OIL FUTURES (NY-CL, CS, WS) vs SINGAPORE JET KEROSENE (PLATTS) SWAP FUTURES (NY-KS - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	65%	65%	59%	59%
<b>NEW YORK HARBOR NO. 2 HEATING OIL FUTURES (NY-HO - CME) vs SINGAPORE GASOIL (PLATTS) SWAP FUTURES (NY-SG - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	63%	63%	60%	60%
<b>NEW YORK HARBOR NO. 2 HEATING OIL FUTURES (NY-HO - CME) vs SINGAPORE JET KEROSENE (PLATTS) SWAP FUTURES (NY-KS - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	66%	66%	60%	60%

## SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
<b>Inter-commodity Spread Rates</b>						
<b>NEW YORK HARBOR NO. 2 HEATING OIL FUTURES (NY-HO, MP, BH) vs NY HEATING OIL (PLATTS) SWAP FUTURES (NY-YF - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	80%	80%	73%	73%
<b>NY ETHANOL (PLATTS) SWAP FUTURES (NY-EZ - CME) vs GULF COAST NO. 6 FUEL OIL 3.0% (PLATTS) SWAP FUTURES (NY-MF - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	45%	45%	35%	35%
<b>NY-3G - PREMIUM UNLD 10P FOB MED SWP vs NY-SG - SINGAPORE GASOIL SWAP</b>						
Spread Credit Rate	Decrease	+2:-15	60%	60%	55%	55%
<b>NY-TY - ULSD 10PPM CARGOES CIF NWE S vs NY-3G - PREMIUM UNLD 10P FOB MED SWP</b>						
Spread Credit Rate	Decrease	+1:-1	65%	65%	57%	57%
<b>PREMIUM UNLEADED GASOLINE 10 PPM (PLATTS) FOB MED SWAP FUTURES (NY-3G - CME) vs SINGAPORE JET KEROSENE (PLATTS) SWAP FUTURES (NY-KS - CME)</b>						
Spread Credit Rate	Decrease	+2:-15	60%	60%	50%	50%
<b>SINGAPORE FOB MARINE FUEL 0.5% (PLATTS) FUTURES (NY-S5F - CME) VS NEW YORK HARBOR NO. 2 HEATING OIL FUTURES (NY-HO -CME)</b>						
Spread Credit Rate	New	+3:-19			55%	55%
<b>SINGAPORE GASOIL (PLATTS) SWAP FUTURES (NY-SG - CME) vs EIA FLAT TAX ON-HIGHWAY DIESEL SWAP FUTURES (NY-A5 - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	69%	69%	60%	60%
<b>SINGAPORE GASOIL (PLATTS) SWAP FUTURES (NY-SG - CME) vs RBOB GASOLINE FUTURES (NY-RB - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	65%	65%	60%	60%
Spread Credit Rate	Decrease	+1:-1	60%	60%	57%	57%
<b>SINGAPORE JET KEROSENE (PLATTS) SWAP FUTURES (NY-KS - CME) vs RBOB GASOLINE FUTURES (NY-RB - CME)</b>						
Spread Credit Rate	Decrease	+1:-1	60%	60%	55%	55%

## 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

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

#### GOLD FUTURES (8Q, GC, GCD, 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, MGT, OG, OGW, QO, QS) - volScan

Clearing Member Rate	Mnth1	Increase		25.000%		30.000%
Clearing Member Rate	Mnth5	Increase		13.000%		15.000%
Clearing Member Rate	Mnth6	Increase		13.000%		15.000%
Clearing Member Rate	Mnth7	Increase		13.000%		15.000%
Clearing Member Rate	Mnth8	Increase		13.000%		15.000%
Clearing Member Rate	Mnth9	Increase		13.000%		15.000%
Clearing Member Rate	Mnth10	Increase		13.000%		15.000%
Clearing Member Rate	Mnth11	Increase		13.000%		15.000%
Clearing Member Rate	Mnth12	Increase		13.000%		15.000%
Clearing Member Rate	Mnth13	Increase		13.000%		15.000%
Clearing Member Rate	Mnth14	Increase		13.000%		15.000%
Clearing Member Rate	Mnth15	Increase		13.000%		15.000%
Clearing Member Rate	Mnth16	Increase		13.000%		15.000%
Clearing Member Rate	Mnth17+	Increase		13.000%		15.000%
Clearing Member Rate	Mnth4	Increase		13.000%		15.000%

#### Equity Indices - Volatility Scan Up (volScan) Rate – SPAN Scenarios 15/16 Volatility Up Shock

#### S&P 500 FUTURES (CME-SP) - volScan

Clearing Member Rate	Mnth 1	Increase		0%		35%
Clearing Member Rate	Mnth 2	Increase		0%		25%
Clearing Member Rate	Mnth 3+	Increase		0%		20%

#### NASDAQ FUTURES (CME-NQ) - volScan

Clearing Member Rate	Mnth 1	Increase		0%		45%
Clearing Member Rate	Mnth 2+	Increase		0%		25%

#### DOW FUTURES (CME-YM) - volScan

Clearing Member Rate	Mnth 1	Increase		0%		40%
Clearing Member Rate	Mnth 2+	Increase		0%		30%

#### RUSSELL 2000 Futures (CME-RTY) - volScan

Clearing Member Rate	Mnth 1	Increase		0%		40%
Clearing Member Rate	Mnth 2+	Increase		0%		25%