Advisory Number: 20-128

TO:	Clearing Member Firms Chief Financial Officers Back Office Managers Margin Managers
FROM:	CME Clearing
SUBJECT:	Performance Bond Requirements
DATE:	Tuesday, March 24, 2020

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

The rates will be effective after the close of business on

Wednesday, March 25, 2020.

Current rates as of:

Tuesday, March 24, 2020.

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

Outright Rates

AGRICULTURE - Outright Rates

FEEDER CATTLE FUTURES (FC)

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
FC	Spec	Month 1	Increase	USD	3,713	3,375	4,455	4,050
FC	Hedge/Member	Month 1	Increase	USD	3,375	3,375	4,050	4,050
FC	Spec	Month 2	Increase	USD	3,713	3,375	4,455	4,050
FC	Hedge/Member	Month 2	Increase	USD	3,375	3,375	4,050	4,050
FC	Spec	Month 3	Increase	USD	3,713	3,375	4,455	4,050
FC	Hedge/Member	Month 3	Increase	USD	3,375	3,375	4,050	4,050
FC	Spec	Month 4	Increase	USD	3,713	3,375	4,455	4,050
FC	Hedge/Member	Month 4	Increase	USD	3,375	3,375	4,050	4,050
FC	Spec	Month 5	Increase	USD	3,713	3,375	4,455	4,050
FC	Hedge/Member	Month 5	Increase	USD	3,375	3,375	4,050	4,050
FC	Spec	Months 6+	Increase	USD	3,713	3,375	4,455	4,050
FC	Hedge/Member	Months 6+	Increase	USD	3,375	3,375	4,050	4,050

FEEDER CATTLE TRADE AT SETTLE (GFT)

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
GFT	Spec	Month 1	Increase	USD	3,713	3,375	4,455	4,050
GFT	Hedge/Member	Month 1	Increase	USD	3,375	3,375	4,050	4,050
GFT	Spec	Month 2	Increase	USD	3,713	3,375	4,455	4,050
GFT	Hedge/Member	Month 2	Increase	USD	3,375	3,375	4,050	4,050
GFT	Spec	Month 3	Increase	USD	3,713	3,375	4,455	4,050
GFT	Hedge/Member	Month 3	Increase	USD	3,375	3,375	4,050	4,050
GFT	Spec	Month 4	Increase	USD	3,713	3,375	4,455	4,050
GFT	Hedge/Member	Month 4	Increase	USD	3,375	3,375	4,050	4,050
GFT	Spec	Month 5	Increase	USD	3,713	3,375	4,455	4,050
GFT	Hedge/Member	Month 5	Increase	USD	3,375	3,375	4,050	4,050
GFT	Spec	Months 6+	Increase	USD	3,713	3,375	4,455	4,050
GFT	Hedge/Member	Months 6+	Increase	USD	3,375	3,375	4,050	4,050

LEAN HOG FUTURES (LN)

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
LN	Spec	Mnth 1	Increase	USD	2,420	2,200	2,750	2,500
LN	Hedge/Member	Mnth 1	Increase	USD	2,200	2,200	2,500	2,500
LN	Spec	Mnth 2	Increase	USD	2,420	2,200	2,750	2,500
LN	Hedge/Member	Mnth 2	Increase	USD	2,200	2,200	2,500	2,500
LN	Spec	Mnth 3	Increase	USD	2,420	2,200	2,750	2,500
LN	Hedge/Member	Mnth 3	Increase	USD	2,200	2,200	2,500	2,500

LEAN HOGS TRADE AT SETTLE (HET)

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
HET	Spec	Mnth 1	Increase	USD	2,420	2,200	2,750	2,500
HET	Hedge/Member	Mnth 1	Increase	USD	2,200	2,200	2,500	2,500
HET	Spec	Mnth 2	Increase	USD	2,420	2,200	2,750	2,500

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
Outright Rates								
HET	Hedge/Member	Mnth 2	Increase	USD	2,200	2,200	2,500	2,500
HET	Spec	Mnth 3	Increase	USD	2,420	2,200	2,750	2,500
HET	Hedge/Member	Mnth 3	Increase	USD	2,200	2,200	2,500	2,500
LIVE CATTLE FUTURES (LC)								
LC	Spec	Month 2	Increase	USD	1,980	1,800	2,365	2,150
LC	Hedge/Member	Month 2	Increase	USD	1,800	1,800	2,150	2,150
LC	Spec	Month 1	Increase	USD	1,980	1,800	2,365	2,150
LC	Hedge/Member	Month 1	Increase	USD	1,800	1,800	2,150	2,150
LC	Spec	Month 3	Increase	USD	1,980	1,800	2,365	2,150
LC	Hedge/Member	Month 3	Increase	USD	1,800	1,800	2,150	2,150
LC	Spec	Month 4	Increase	USD	1,980	1,800	2,365	2,150
LC	Hedge/Member	Month 4	Increase	USD	1,800	1,800	2,150	2,150
LC	Spec	Month 5	Increase	USD	1,980	1,800	2,365	2,150
LC	Hedge/Member	Month 5	Increase	USD	1,800	1,800	2,150	2,150
LC	Spec	Months 6+	Increase	USD	1,980	1,800	2,365	2,150
LC	Hedge/Member	Months 6+	Increase	USD	1,800	1,800	2,150	2,150
LIVE CATTLE TRADE AT SETTLEMENT (LET)								
LET	Spec	Month 2	Increase	USD	1,980	1,800	2,365	2,150
LET	Hedge/Member	Month 2	Increase	USD	1,800	1,800	2,150	2,150
LET	Spec	Month 1	Increase	USD	1,980	1,800	2,365	2,150
LET	Hedge/Member	Month 1	Increase	USD	1,800	1,800	2,150	2,150
LET	Spec	Month 3	Increase	USD	1,980	1,800	2,365	2,150
LET	Hedge/Member	Month 3	Increase	USD	1,800	1,800	2,150	2,150
LET	Spec	Month 4	Increase	USD	1,980	1,800	2,365	2,150
LET	Hedge/Member	Month 4	Increase	USD	1,800	1,800	2,150	2,150
LET	Spec	Month 5	Increase	USD	1,980	1,800	2,365	2,150
LET	Hedge/Member	Month 5	Increase	USD	1,800	1,800	2,150	2,150
LET	Spec	Months 6+	Increase	USD	1,980	1,800	2,365	2,150
LET	Hedge/Member	Months 6+	Increase	USD	1,800	1,800	2,150	2,150

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
Outright Rates								
				ETHANOL - Outright Rates				
CHICAGO ETHANOL FUT (CU)								
CU	Spec	Mth 1	Increase	USD	4,400	4,000	6,600	6,000
CU	Hedge/Member	Mth 1	Increase	USD	4,000	4,000	6,000	6,000
CU	Spec	Mths 2	Increase	USD	4,070	3,700	6,050	5,500
CU	Hedge/Member	Mths 2	Increase	USD	3,700	3,700	5,500	5,500
CU	Spec	Mth 3-7	Increase	USD	3,685	3,350	4,785	4,350
CU	Hedge/Member	Mth 3-7	Increase	USD	3,350	3,350	4,350	4,350
CU	Spec	Mnth 8+	Increase	USD	3,190	2,900	4,455	4,050
CU	Hedge/Member	Mnth 8+	Increase	USD	2,900	2,900	4,050	4,050
ETHANOL FUTURES (EH)								
EH	Spec	Month 1	Increase	USD	3,190	2,900	4,785	4,350
EH	Hedge/Member	Month 1	Increase	USD	2,900	2,900	4,350	4,350
EH	Spec	Month 2	Increase	USD	2,970	2,700	4,455	4,050
EH	Hedge/Member	Month 2	Increase	USD	2,700	2,700	4,050	4,050
EH	Spec	Month 3+	Increase	USD	2,970	2,700	4,455	4,050
EH	Hedge/Member	Month 3+	Increase	USD	2,700	2,700	4,050	4,050
ETHANOL(PL) T2 FOB RTRDM INCL (Z1)								
Z1	Spec	Mnth 1	Increase	EUR	4,070	3,700	5,060	4,600
Z1	Hedge/Member	Mnth 1	Increase	EUR	3,700	3,700	4,600	4,600
Z1	Spec	Mnths 2+	Increase	EUR	3,740	3,400	5,060	4,600
Z1	Hedge/Member	Mnths 2+	Increase	EUR	3,400	3,400	4,600	4,600
NEW YORK ETHANOL FUT (EZ)								
EZ	Spec	Mth 1	Increase	USD	4,400	4,000	6,600	6,000
EZ	Hedge/Member	Mth 1	Increase	USD	4,000	4,000	6,000	6,000
EZ	Spec	Mth 2	Increase	USD	4,070	3,700	6,050	5,500
EZ	Hedge/Member	Mth 2	Increase	USD	3,700	3,700	5,500	5,500
EZ	Spec	Mths 3-7	Increase	USD	4,070	3,700	6,050	5,500
EZ	Hedge/Member	Mths 3-7	Increase	USD	3,700	3,700	5,500	5,500
EZ	Spec	Mnths 8+	Increase	USD	4,070	3,700	6,050	5,500
EZ	Hedge/Member	Mnths 8+	Increase	USD	3,700	3,700	5,500	5,500
				FREIGHT - Outright Rates				
FREIGHT ROUTE TD3C FUTURES (TL)								
TL	Spec	Mnths 3-6	Increase	USD	2,750	2,500	3,850	3,500
TL	Hedge/Member	Mnths 3-6	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
Outright Rates								
			METALS - Outright Rates					
CLEARED OTC LONDON GOLD COLLATERAL (GB)								
GB	Spec		Increase	USD	77	70	88	80
GB	Hedge/Member		Increase	USD	70	70	80	80
CLEARED OTC LONDON GOLD FWD (CM) (GBC)								
GBC	Spec		Increase	USD	77	70	88	80
GBC	Hedge/Member		Increase	USD	70	70	80	80
GOLD KILO FUTURES (GCK)								
GCK	Spec	Mnth1	Increase	USD	1,760	1,600	2,090	1,900
GCK	Hedge/Member	Mnth1	Increase	USD	1,600	1,600	1,900	1,900
GCK	Spec	Mnth2	Increase	USD	1,760	1,600	2,090	1,900
GCK	Hedge/Member	Mnth2	Increase	USD	1,600	1,600	1,900	1,900
GCK	Spec	Mnth3	Increase	USD	1,760	1,600	2,090	1,900
GCK	Hedge/Member	Mnth3	Increase	USD	1,600	1,600	1,900	1,900
GCK	Spec	Mnth4	Increase	USD	1,760	1,600	2,090	1,900
GCK	Hedge/Member	Mnth4	Increase	USD	1,600	1,600	1,900	1,900
GCK	Spec	Mnth5	Increase	USD	1,760	1,600	2,090	1,900
GCK	Hedge/Member	Mnth5	Increase	USD	1,600	1,600	1,900	1,900
GCK	Spec	Mnth6	Increase	USD	1,760	1,600	2,090	1,900
GCK	Hedge/Member	Mnth6	Increase	USD	1,600	1,600	1,900	1,900
GCK	Spec	Mnth7	Increase	USD	1,760	1,600	2,090	1,900
GCK	Hedge/Member	Mnth7	Increase	USD	1,600	1,600	1,900	1,900
GCK	Spec	Mnth8+	Increase	USD	1,760	1,600	2,090	1,900
GCK	Hedge/Member	Mnth8+	Increase	USD	1,600	1,600	1,900	1,900
GOLD/PLATINUM SPREAD FUTURE (GPS)								
GPS	Spec	Mnth1	Increase	USD	4,400	4,000	5,280	4,800
GPS	Hedge/Member	Mnth1	Increase	USD	4,000	4,000	4,800	4,800
GPS	Spec	Mnth2	Increase	USD	4,400	4,000	5,280	4,800
GPS	Hedge/Member	Mnth2	Increase	USD	4,000	4,000	4,800	4,800
GOLD/SILVER RATIO FUTURES (GSR)								
GSR	Spec	Mnth1	Increase	USD	2,970	2,700	3,564	3,240
GSR	Hedge/Member	Mnth1	Increase	USD	2,700	2,700	3,240	3,240
GSR	Spec	Mnth2	Increase	USD	2,970	2,700	3,564	3,240
GSR	Hedge/Member	Mnth2	Increase	USD	2,700	2,700	3,240	3,240

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
Outright Rates								
IRON ORE FUTURES (TIO)								
TIO	Spec	Mnth 1	Increase	USD	4,730	4,300	5,225	4,750
TIO	Hedge/Member	Mnth 1	Increase	USD	4,300	4,300	4,750	4,750
TIO	Spec	Mnth 2-4	Increase	USD	4,125	3,750	4,675	4,250
TIO	Hedge/Member	Mnth 2-4	Increase	USD	3,750	3,750	4,250	4,250
TIO	Spec	Mnth 5-9	Increase	USD	3,300	3,000	3,850	3,500
TIO	Hedge/Member	Mnth 5-9	Increase	USD	3,000	3,000	3,500	3,500
TIO	Spec	Mnth 10+	Increase	USD	3,025	2,750	3,575	3,250
TIO	Hedge/Member	Mnth 10+	Increase	USD	2,750	2,750	3,250	3,250
LONDON SPOT GOLD FUTURES (GSP)								
GSP	Spec	All Contracts	Increase	USD	6,600	6,000	7,920	7,200
GSP	Hedge/Member	All Contracts	Increase	USD	6,000	6,000	7,200	7,200
PLATINUM/PALLADIUM SPREAD FUTURES (PPS)								
PPS	Spec	Mnth 1	Increase	USD	3,850	3,500	4,620	4,200
PPS	Hedge/Member	Mnth 1	Increase	USD	3,500	3,500	4,200	4,200
PPS	Spec	Mnth 2+	Increase	USD	3,850	3,500	4,620	4,200
PPS	Hedge/Member	Mnth 2+	Increase	USD	3,500	3,500	4,200	4,200
SHANGHAI GOLD (CNH) FUTURES (SGC)								
SGC	Spec	Mths 1-3	Increase	CNH	18,150	16,500	20,900	19,000
SGC	Hedge/Member	Mths 1-3	Increase	CNH	16,500	16,500	19,000	19,000
SGC	Spec	Mths 4+	Increase	CNH	18,150	16,500	20,900	19,000
SGC	Hedge/Member	Mths 4+	Increase	CNH	16,500	16,500	19,000	19,000
SHANGHAI GOLD (USD) FUTURES (SGU)								
SGU	Spec	Mths 1-3	Increase	USD	2,530	2,300	2,970	2,700
SGU	Hedge/Member	Mths 1-3	Increase	USD	2,300	2,300	2,700	2,700
SGU	Spec	Mths 4+	Increase	USD	2,530	2,300	2,970	2,700
SGU	Hedge/Member	Mths 4+	Increase	USD	2,300	2,300	2,700	2,700

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

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

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

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

Intra Spreads

AGRICULTURE - Intra Spreads

Butter (DB) - Months 10+ vs Months 10+ (CASH BUTTER FUTURES)

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
CB	Spec		Increase	USD	1,100	1,000	1,320	1,200
CB	Hedge/Member		Increase	USD	1,000	1,000	1,200	1,200

Butter (DB) - Months 5-9 vs Months 10+ (CASH BUTTER FUTURES)

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
CB	Spec		Increase	USD	1,265	1,150	1,485	1,350
CB	Hedge/Member		Increase	USD	1,150	1,150	1,350	1,350

Class IV Milk (DK) - Month 1 vs. Months 2-5 (CLASS IV MILK FUTURE)

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
DK	Spec		Increase	USD	660	600	880	800
DK	Hedge/Member		Increase	USD	600	600	800	800

Class IV Milk (DK) - Month 1 vs. Months 6+ (CLASS IV MILK FUTURE)

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
DK	Spec		Increase	USD	726	660	880	800
DK	Hedge/Member		Increase	USD	660	660	800	800

Class IV Milk (DK) - Months 2-5 vs. Months 2-5 (CLASS IV MILK FUTURE)

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
DK	Spec		Increase	USD	792	720	924	840
DK	Hedge/Member		Increase	USD	720	720	840	840

Class IV Milk (DK) - Months 6+ vs. Months 6+ (CLASS IV MILK FUTURE)

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
DK	Spec		Increase	USD	1,166	1,060	1,320	1,200
DK	Hedge/Member		Increase	USD	1,060	1,060	1,200	1,200

Class IV Milk (DK) - Months2-5 vs. Months 6+ (CLASS IV MILK FUTURE)

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
DK	Spec		Increase	USD	1,100	1,000	1,397	1,270
DK	Hedge/Member		Increase	USD	1,000	1,000	1,270	1,270

CME Dry Whey Futures (DY) - Month 1 vs Months 3-12 (CME DRY WHEY FUTURES)

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
DY	Spec		Increase	USD	902	820	1,056	960
DY	Hedge/Member		Increase	USD	820	820	960	960

CME Dry Whey Futures (DY) - Month 2 vs Months 3-12 (CME DRY WHEY FUTURES)

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
DY	Spec		Increase	USD	1,166	1,060	1,265	1,150
DY	Hedge/Member		Increase	USD	1,060	1,060	1,150	1,150

CME Dry Whey Futures (DY) - Months 1 vs Months 2 (CME DRY WHEY FUTURES)

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
DY	Spec		Increase	USD	770	700	924	840
DY	Hedge/Member		Increase	USD	700	700	840	840

CME Dry Whey Futures (DY) - Months 3-12 vs Months 3-12 (CME DRY WHEY FUTURES)

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
DY	Spec		Increase	USD	1,210	1,100	1,540	1,400
DY	Hedge/Member		Increase	USD	1,100	1,100	1,400	1,400

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
Intra Spreads								
Month 1 vs Month 2 (FEEDER CATTLE FUTURES)								
FC	Spec		Increase	USD	1,430	1,300	2,145	1,950
FC	Hedge/Member		Increase	USD	1,300	1,300	1,950	1,950
Month 1 vs Month 2 (FEEDER CATTLE TRADE AT SETTLE)								
GFT	Spec		Increase	USD	1,430	1,300	2,145	1,950
GFT	Hedge/Member		Increase	USD	1,300	1,300	1,950	1,950
Month 1 vs Month 3 (FEEDER CATTLE FUTURES)								
FC	Spec		Increase	USD	1,430	1,300	2,145	1,950
FC	Hedge/Member		Increase	USD	1,300	1,300	1,950	1,950
Month 1 vs Month 3 (FEEDER CATTLE TRADE AT SETTLE)								
GFT	Spec		Increase	USD	1,430	1,300	2,145	1,950
GFT	Hedge/Member		Increase	USD	1,300	1,300	1,950	1,950
Month 1 vs Month 4 (FEEDER CATTLE FUTURES)								
FC	Spec		Increase	USD	1,430	1,300	2,145	1,950
FC	Hedge/Member		Increase	USD	1,300	1,300	1,950	1,950
Month 1 vs Month 4 (FEEDER CATTLE TRADE AT SETTLE)								
GFT	Spec		Increase	USD	1,430	1,300	2,145	1,950
GFT	Hedge/Member		Increase	USD	1,300	1,300	1,950	1,950
Month 1 vs Month 5 (FEEDER CATTLE FUTURES)								
FC	Spec		Increase	USD	1,859	1,690	2,789	2,535
FC	Hedge/Member		Increase	USD	1,690	1,690	2,535	2,535
Month 1 vs Month 5 (FEEDER CATTLE TRADE AT SETTLE)								
GFT	Spec		Increase	USD	1,859	1,690	2,789	2,535
GFT	Hedge/Member		Increase	USD	1,690	1,690	2,535	2,535
Month 1 vs Months 6+ (FEEDER CATTLE FUTURES)								
FC	Spec		Increase	USD	1,980	1,800	2,970	2,700
FC	Hedge/Member		Increase	USD	1,800	1,800	2,700	2,700
Month 1 vs Months 6+ (FEEDER CATTLE TRADE AT SETTLE)								
GFT	Spec		Increase	USD	1,980	1,800	2,970	2,700
GFT	Hedge/Member		Increase	USD	1,800	1,800	2,700	2,700
Nonfat Dry Milk (NF) - Months 1 vs Months 3-4 (NONFAT DRY MILK FUTURES)								
NF	Spec		Increase	USD	902	820	1,298	1,180
NF	Hedge/Member		Increase	USD	820	820	1,180	1,180

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
Intra Spreads								
Nonfat Dry Milk (NF) - Months 1 vs Months 5+ (NONFAT DRY MILK FUTURES)								
NF	Spec		Increase	USD	990	900	1,320	1,200
NF	Hedge/Member		Increase	USD	900	900	1,200	1,200

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

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

Intra Spreads

EQUITY INDEX - Intra Spreads

S&P 500 QUARTERLY DIVIDEND INDEX (SDI) - Months 1 vs 3 (S&P 500 QUARLY DIVIDEND INDEX FUT)

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
SDI	Spec		Increase	USD	308	280	605	550
SDI	Hedge/Member		Increase	USD	280	280	550	550

S&P 500 QUARTERLY DIVIDEND INDEX (SDI) - Months 1 vs 4 (S&P 500 QUARLY DIVIDEND INDEX FUT)

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
SDI	Spec		Increase	USD	462	420	880	800
SDI	Hedge/Member		Increase	USD	420	420	800	800

S&P 500 QUARTERLY DIVIDEND INDEX (SDI) - Months 1 vs 5 (S&P 500 QUARLY DIVIDEND INDEX FUT)

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
SDI	Spec		Increase	USD	561	510	990	900
SDI	Hedge/Member		Increase	USD	510	510	900	900

S&P 500 QUARTERLY DIVIDEND INDEX (SDI) - Months 2 vs 4 (S&P 500 QUARLY DIVIDEND INDEX FUT)

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
SDI	Spec		Increase	USD	770	700	935	850
SDI	Hedge/Member		Increase	USD	700	700	850	850

S&P 500 Stock Index - Month 1 vs 2 (BTIC ON E-MINI S&P 500 FUTURES)

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
EST	Spec		Increase	USD	330	300	550	500
EST	Hedge/Member		Increase	USD	300	300	500	500

S&P 500 Stock Index - Month 1 vs 2 (E-MINI S&P 500 FUTURES MARKER)

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
ESI	Spec		Increase	USD	330	300	550	500
ESI	Hedge/Member		Increase	USD	300	300	500	500

S&P 500 Stock Index - Month 1 vs 2 (E-MINI S&P 500 FUTURES)

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
ES	Spec		Increase	USD	330	300	550	500
ES	Hedge/Member		Increase	USD	300	300	500	500

S&P 500 Stock Index - Month 1 vs 2 (MICRO E-MINI S&P 500 FUTURES)

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
MES	Spec		Increase	USD	33	30	55	50
MES	Hedge/Member		Increase	USD	30	30	50	50

S&P 500 Stock Index - Month 1 vs 2 (S&P 500 FUTURES)

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
SP	Spec		Increase	USD	1,650	1,500	2,750	2,500
SP	Hedge/Member		Increase	USD	1,500	1,500	2,500	2,500

S&P 500 Stock Index - Month 1 vs 2 (TACO ON E-MINI S&P 500 FUTURES)

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
ESQ	Spec		Increase	USD	330	300	550	500
ESQ	Hedge/Member		Increase	USD	300	300	500	500

S&P 500 Stock Index - Month 1 vs 3 (BTIC ON E-MINI S&P 500 FUTURES)

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
EST	Spec		Increase	USD	550	500	660	600
EST	Hedge/Member		Increase	USD	500	500	600	600

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
Intra Spreads								
S&P 500 Stock Index - Month 1 vs 3 (E-MINI S&P 500 FUTURES MARKER)								
ESI	Spec		Increase	USD	550	500	660	600
ESI	Hedge/Member		Increase	USD	500	500	600	600
S&P 500 Stock Index - Month 1 vs 3 (E-MINI S&P 500 FUTURES)								
ES	Spec		Increase	USD	550	500	660	600
ES	Hedge/Member		Increase	USD	500	500	600	600
S&P 500 Stock Index - Month 1 vs 3 (MICRO E-MINI S&P 500 FUTURES)								
MES	Spec		Increase	USD	55	50	66	60
MES	Hedge/Member		Increase	USD	50	50	60	60
S&P 500 Stock Index - Month 1 vs 3 (S&P 500 FUTURES)								
SP	Spec		Increase	USD	2,750	2,500	3,300	3,000
SP	Hedge/Member		Increase	USD	2,500	2,500	3,000	3,000
S&P 500 Stock Index - Month 1 vs 3 (TACO ON E-MINI S&P 500 FUTURES)								
ESQ	Spec		Increase	USD	550	500	660	600
ESQ	Hedge/Member		Increase	USD	500	500	600	600
S&P 500 Stock Index - Month 2 vs 3 (BTIC ON E-MINI S&P 500 FUTURES)								
EST	Spec		Increase	USD	330	300	440	400
EST	Hedge/Member		Increase	USD	300	300	400	400
S&P 500 Stock Index - Month 2 vs 3 (E-MINI S&P 500 FUTURES MARKER)								
ESI	Spec		Increase	USD	330	300	440	400
ESI	Hedge/Member		Increase	USD	300	300	400	400
S&P 500 Stock Index - Month 2 vs 3 (E-MINI S&P 500 FUTURES)								
ES	Spec		Increase	USD	330	300	440	400
ES	Hedge/Member		Increase	USD	300	300	400	400
S&P 500 Stock Index - Month 2 vs 3 (MICRO E-MINI S&P 500 FUTURES)								
MES	Spec		Increase	USD	33	30	44	40
MES	Hedge/Member		Increase	USD	30	30	40	40
S&P 500 Stock Index - Month 2 vs 3 (S&P 500 FUTURES)								
SP	Spec		Increase	USD	1,650	1,500	2,200	2,000
SP	Hedge/Member		Increase	USD	1,500	1,500	2,000	2,000
S&P 500 Stock Index - Month 2 vs 3 (TACO ON E-MINI S&P 500 FUTURES)								
ESQ	Spec		Increase	USD	330	300	440	400
ESQ	Hedge/Member		Increase	USD	300	300	400	400

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
Intra Spreads								
			METALS - Intra Spreads					
(COPPER PREMIUM GRADE A CIF SHANGHAI)								
CUP	Spec		Increase	USD	209	190	248	225
CUP	Hedge/Member		Increase	USD	190	190	225	225
All Months (ASIAN IRON ORE FUTURES)								
TIC	Spec		Increase	USD	1,100	1,000	1,650	1,500
TIC	Hedge/Member		Increase	USD	1,000	1,000	1,500	1,500
All Months (ZINC FUTURES)								
ZNC	Spec		Increase	USD	2,420	2,200	3,630	3,300
ZNC	Hedge/Member		Increase	USD	2,200	2,200	3,300	3,300
Consecutive Spread - Contracts 2+ (IRON ORE FUTURES)								
TIO	Spec		Increase	USD	1,430	1,300	1,760	1,600
TIO	Hedge/Member		Increase	USD	1,300	1,300	1,600	1,600
Consecutive Spread - Months 2+ (NYMEX HOT ROLLED STEEL FUTURES)								
HR	Spec		Increase	USD	578	525	605	550
HR	Hedge/Member		Increase	USD	525	525	550	550
Contract 1 vs Contract 10+ (IRON ORE FUTURES)								
TIO	Spec		Increase	USD	1,650	1,500	2,530	2,300
TIO	Hedge/Member		Increase	USD	1,500	1,500	2,300	2,300
Contract 1 vs Contracts 2-4 (IRON ORE FUTURES)								
TIO	Spec		Increase	USD	1,650	1,500	2,530	2,300
TIO	Hedge/Member		Increase	USD	1,500	1,500	2,300	2,300
Contract 1 vs Contracts 5-9 (IRON ORE FUTURES)								
TIO	Spec		Increase	USD	1,650	1,500	2,530	2,300
TIO	Hedge/Member		Increase	USD	1,500	1,500	2,300	2,300
Contract 10+ vs Contract 10+ (IRON ORE FUTURES)								
TIO	Spec		Increase	USD	1,650	1,500	2,530	2,300
TIO	Hedge/Member		Increase	USD	1,500	1,500	2,300	2,300
Contracts 2-4 vs Contracts 10+ (IRON ORE FUTURES)								
TIO	Spec		Increase	USD	1,650	1,500	2,530	2,300
TIO	Hedge/Member		Increase	USD	1,500	1,500	2,300	2,300
Contracts 2-4 vs Contracts 2-4 (IRON ORE FUTURES)								
TIO	Spec		Increase	USD	1,650	1,500	2,530	2,300
TIO	Hedge/Member		Increase	USD	1,500	1,500	2,300	2,300

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
Intra Spreads								
Contracts 2-4 vs Contracts 5-9 (IRON ORE FUTURES)								
TIO	Spec		Increase	USD	1,650	1,500	2,530	2,300
TIO	Hedge/Member		Increase	USD	1,500	1,500	2,300	2,300
Contracts 5-9 vs Contacts 5-9 (IRON ORE FUTURES)								
TIO	Spec		Increase	USD	1,650	1,500	2,530	2,300
TIO	Hedge/Member		Increase	USD	1,500	1,500	2,300	2,300
Contracts 5-9 vs Contracts 10+ (IRON ORE FUTURES)								
TIO	Spec		Increase	USD	1,650	1,500	2,530	2,300
TIO	Hedge/Member		Increase	USD	1,500	1,500	2,300	2,300
Month 1 vs. Months 11+ (NYMEX HOT ROLLED STEEL FUTURES)								
HR	Spec		Increase	USD	578	525	605	550
HR	Hedge/Member		Increase	USD	525	525	550	550
Month 1 vs. Months 2-10 (NYMEX HOT ROLLED STEEL FUTURES)								
HR	Spec		Increase	USD	578	525	605	550
HR	Hedge/Member		Increase	USD	525	525	550	550
Mths 1-4 vs Mths 1-4 (ALUMINUM A-380 ALLOY PLATTS FUTURES)								
A38	Spec		Increase	USD	1,650	1,500	1,870	1,700
A38	Hedge/Member		Increase	USD	1,500	1,500	1,700	1,700
Mths 1-4 vs Mths 1-4 (ALUMINUM FUTURES)								
ALI	Spec		Increase	USD	605	550	825	750
ALI	Hedge/Member		Increase	USD	550	550	750	750
Mths 1-4 vs Mths 5+ (ALUMINUM A-380 ALLOY PLATTS FUTURES)								
A38	Spec		Increase	USD	1,650	1,500	1,870	1,700
A38	Hedge/Member		Increase	USD	1,500	1,500	1,700	1,700
Mths 1-4 vs Mths 5+ (ALUMINUM FUTURES)								
ALI	Spec		Increase	USD	715	650	825	750
ALI	Hedge/Member		Increase	USD	650	650	750	750
Mths 5+ vs Mths 5+ (ALUMINUM A-380 ALLOY PLATTS FUTURES)								
A38	Spec		Increase	USD	1,650	1,500	1,870	1,700
A38	Hedge/Member		Increase	USD	1,500	1,500	1,700	1,700
Mths 5+ vs Mths 5+ (ALUMINUM FUTURES)								
ALI	Spec		Increase	USD	715	650	825	750
ALI	Hedge/Member		Increase	USD	650	650	750	750

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
Intra Spreads								
U.S. Midwest #1 Busheling Ferrous Scrap (AMM) Futures - All Months (U.S. MIDWEST BUSHELING SCRAP)								
BUS	Spec		Increase	USD	440	400	550	500
BUS	Hedge/Member		Increase	USD	400	400	500	500
Uranium - All Months (URANIUM FUTURES)								
UX	Spec		Increase	USD	330	300	396	360
UX	Hedge/Member		Increase	USD	300	300	360	360

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
AGRICULTURE - Inter-commodity Spread Rates						
Corn (CBOT) (C) vs. Soybean (CBOT) (S)						
Spread Credit Rate	Decrease	+2:-1	55%	55%	50%	50%
Dow Jones - UBS Commodity Index Excess Return (70) vs. S&P GSCI Commodity Index (GI)						
Spread Credit Rate	Decrease	+5:-1	45%	45%	30%	30%
Oats (CBOT) (O) vs. Soybean Meal (CBOT) (06)						
Spread Credit Rate	Decrease	+1:-1	30%	30%	0%	0%
CRUDE OIL - Inter-commodity Spread Rates						
(NY-HCL - CME) vs (NY-1N - CME)						
Spread Credit Rate	Decrease	+1:-1	80%	80%	73%	73%
(NY-HCL - CME) vs (NY-BZ - CME)						
Spread Credit Rate	Decrease	+1:-1	88%	88%	85%	85%
(NY-HCL - CME) vs (NY-HO - CME)						
Spread Credit Rate	Decrease	+1:-1	80%	80%	76%	76%
(NY-HCL - CME) vs (NY-MF - CME)						
Spread Credit Rate	Decrease	+1:-1	67%	67%	60%	60%
Spread Credit Rate	Decrease	+1:-1	74%	74%	67%	67%
(NY-HCL - CME) vs (NY-RB - CME)						
Spread Credit Rate	Decrease	+1:-1	75%	75%	55%	55%
(NY-R5F - CME) vs (NY-CL - CME)						
Spread Credit Rate	Decrease	+1:-1	60%	60%	55%	55%
(NY-RB - CME) vs (NY-HCL - CME)						
Spread Credit Rate	Decrease	+1:-1	75%	75%	55%	55%
ARGUS PROPANE FAR EAST INDEX SWAP FUTURES (NY-7E - CME) vs BRENT CRUDE OIL PENULTIMATE FINANCIAL FUTURES (NY-BB - CME)						
Spread Credit Rate	Decrease	+1:-12	70%	70%	64%	64%
BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME) vs E-MINI S&P MIDCAP 400 (ME - CME)						
Spread Credit Rate	Decrease	+2:-1	40%	40%	30%	30%
BRENT CRUDE OIL PENULTIMATE FINANCIAL FUTURES (NY-BB - CME) vs GULF COAST JET FUEL (PLATTS) CALENDAR SWAP FUTURES (NY-GE - CME)						
Spread Credit Rate	Decrease	+1:-1	80%	80%	74%	74%
BRENT CRUDE OIL PENULTIMATE FINANCIAL FUTURES (NY-BB - CME) vs PROPANE NON-LDH MONT BELVIEU (OPIS) SWAP FUTURES (NY-1R - CME)						
Spread Credit Rate	Decrease	+1:-1	60%	60%	50%	50%
DATED BRENT (PLATTS) CALENDAR SWAP FUTURES (NY-UB - CME) vs RBOB GASOLINE FUTURES (NY-RB - CME)						

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
Spread Credit Rate	Decrease	+1:-1	60%	60%	50%	50%
DUBAI CRUDE OIL (PLATTS) CALENDAR SWAP FUTURES (NY-DC - CME) vs JAPAN C&F NAPHTHA (PLATTS) SWAP FUTURES (NY-JA - CME)						
Spread Credit Rate	Decrease	+9:-1	81%	81%	76%	76%
DUBAI CRUDE OIL CALENDAR SWAP (NYM-DC - CME) vs JAPAN C&F NAPHTHA (PLATTS) SWAP (NYM-JA - CME)						
Spread Credit Rate	Decrease	+9:-1	81%	81%	76%	76%
DUBAI CRUDE OIL CALENDAR SWAP (NYM-DC - CME) vs LIGHT, SWEET CRUDE OIL FUTURES (NYM-CL, CS, WS)						
Spread Credit Rate	Decrease	+1:-1	91%	91%	85%	85%
DUBAI CRUDE OIL CALENDAR SWAP (NYM-DC - CME) vs NY HARBOR RBOB GASOLINE (NYM-RB, RL, RT)						
Spread Credit Rate	Decrease	+1:-1	70%	70%	55%	55%
EUROPEAN FOB RDAM MARINE FUEL 0.5% BARGES (PLATTS) FUTURES (NY-R5F - CME) vs BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME)						
Spread Credit Rate	Decrease	+3:-19	60%	60%	55%	55%
EUROPEAN NAPHTHA (PLATTS) CALENDAR SWAP FUTURES (NY-UN - CME) vs DUBAI CRUDE OIL (PLATTS) CALENDAR SWAP FUTURES (NY-DC - CME)						
Spread Credit Rate	Decrease	+1:-9	85%	85%	79%	79%
GULF COAST JET FUEL (PLATTS) CALENDAR SWAP FUTURES (NY-GE - CME) vs BRENT CRUDE OIL PENULTIMATE FINANCIAL FUTURES (NY-BB - CME)						
Spread Credit Rate	Decrease	+1:-1	80%	80%	74%	74%
LIGHT SWEET CRUDE OIL FUTURES (NY-CL - CME) vs E-MINI S&P MIDCAP 400 (ME - CME)						
Spread Credit Rate	Decrease	+2:-1	45%	45%	30%	30%
LIGHT SWEET CRUDE OIL FUTURES (NY-CL - CME) vs OMAN CRUDE OIL (NY-OQ - CME)						
Spread Credit Rate	Decrease	+1:-1	84%	84%	80%	80%
LIGHT SWEET CRUDE OIL FUTURES (NY-CL, CS, WS) vs JAPAN C&F NAPHTHA (Platts) SWAP FUTURES (NY-JA)						
Spread Credit Rate	Decrease	+9:-1	78%	78%	65%	65%
LIGHT, SWEET CRUDE OIL FUTURES (NYM-CL, CS, WS) vs NEW YORK HARBOR RESIDUAL FUEL 1.0% SULFUR (PLATTS) SWAP (NYM-MM - CME)						
Spread Credit Rate	Decrease	+1:-1	77%	77%	71%	71%
LIGHT, SWEET CRUDE OIL FUTURES (NYM-CL, CS, WS) vs OMAN CRUDE OIL (NYM-OQ - CME)						
Spread Credit Rate	Decrease	+1:-1	84%	84%	80%	80%
LLS (ARGUS) CALENDAR SWAP FUTURES (NY-XA - CME) vs RBOB GASOLINE FUTURES (NY-RB - CME)						
Spread Credit Rate	Decrease	+1:-1	58%	58%	30%	30%
MONT BELVIEU ISO-BUTANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-8I) vs. BRENT FINANCIAL FUTURES (NY-BB)						
Spread Credit Rate	Decrease	+1:-1	60%	60%	37%	37%
Spread Credit Rate	Decrease	+1:-1	60%	60%	37%	37%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
MONT BELVIEU LDH PROPANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-B0) vs. BRENT FINANCIAL FUTURES (NY-BB)						
Spread Credit Rate	Decrease	+1:-1	56%	56%	50%	50%
Spread Credit Rate	Decrease	+1:-1	56%	56%	50%	50%
PREMIUM UNLEADED GASOLINE 10 PPM (PLATTS) FOB MED SWAP FUTURES (NY-3G - CME) vs BRENT CRUDE OIL PENULTIMATE FINANCIAL FUTURES (NY-BB - CME)						
Spread Credit Rate	Decrease	+2:-15	75%	75%	57%	57%
PREMIUM UNLEADED GASOLINE 10 PPM (PLATTS) FOB MED SWAP FUTURES (NY-3G - CME) vs DUBAI CRUDE OIL (PLATTS) CALENDAR SWAP FUTURES (NY-DC - CME)						
Spread Credit Rate	Decrease	+3:-25	80%	80%	70%	70%
PREMIUM UNLEADED GASOLINE 10 PPM (PLATTS) FOB MED SWAP FUTURES (NY-3G - CME) vs LIGHT SWEET CRUDE OIL FUTURES (NY-CL - CME)						
Spread Credit Rate	Decrease	+3:-25	78%	78%	62%	62%
SINGAPORE FUEL OIL 180 CST (PLATTS) CALENDAR SWAP FUTURES (NY-UA - CME) vs LIGHT SWEET CRUDE OIL FUTURES (NY-CL - CME)						
Spread Credit Rate	Decrease	+3:-19	74%	74%	55%	55%
SINGAPORE MOGAS 92 UNLEADED (PLATTS) SWAP FUTURES (NY-1N - CME) vs DUBAI CRUDE OIL (PLATTS) CALENDAR SWAP FUTURES (NY-DC - CME)						
Spread Credit Rate	Decrease	+1:-1	83%	83%	77%	77%
USGC MARINE FUEL 0.5% (PLATTS) FUTURES (NY-H5F - CME) vs BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME)						
Spread Credit Rate	Decrease	+1:-1	45%	45%	35%	35%
USGC MARINE FUEL 0.5% (PLATTS) FUTURES (NY-H5F - CME) vs DUBAI CRUDE OIL (PLATTS) CALENDAR SWAP FUTURES (NY-DC - CME)						
Spread Credit Rate	Decrease	+1:-1	75%	75%	71%	71%
USGC MARINE FUEL 0.5% (PLATTS) FUTURES (NY-H5F - CME) vs LIGHT SWEET CRUDE OIL FUTURES (NY-CL - CME)						
Spread Credit Rate	Decrease	+1:-1	45%	45%	35%	35%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
DME Products - Inter-commodity Spread Rates						
DUBAI CRUDE OIL (PLATTS) FUTURES (NY-DCD - CME) vs RBOB GASOLINE FUTURES (NY-RB - CME)						
Spread Credit Rate	Decrease	+1:-1	70%	70%	55%	55%
EUROPEAN NAPHTHA (PLATTS) CALENDAR SWAP FUTURES (NY-UN - CME) vs OMAN CRUDE OIL (NY-OQ - CME)						
Spread Credit Rate	Decrease	+2:-15	82%	82%	78%	78%
GASOLINE EURO-BOB OXY (ARGUS) NWE BARGES SWAP FUTURES (NY-7H - CME) vs OMAN CRUDE OIL (NY-OQ - CME)						
Spread Credit Rate	Decrease	+2:-15	70%	70%	59%	59%
LIGHT SWEET CRUDE OIL FUTURES (NY-CL - CME) vs OMAN CRUDE OIL (NY-OQ - CME)						
Spread Credit Rate	Decrease	+1:-1	84%	84%	80%	80%
LIGHT, SWEET CRUDE OIL FUTURES (NYM-CL, CS, WS) vs OMAN CRUDE OIL (NYM-OQ - CME)						
Spread Credit Rate	Decrease	+1:-1	84%	84%	80%	80%
NEW YORK HARBOR NO. 2 HEATING OIL FUTURES (NY-HO - CME) vs OMAN CRUDE OIL (NY-OQ - CME)						
Spread Credit Rate	Decrease	+1:-1	75%	75%	70%	70%
Spread Credit Rate	Decrease	+1:-1	82%	82%	79%	79%
OMAN CRUDE OIL (NY-OQ - CME) vs RBOB GASOLINE FUTURES (NY-RB - CME)						
Spread Credit Rate	Decrease	+1:-1	80%	80%	60%	60%
OMAN CRUDE OIL (NY-OQ - CME) vs SINGAPORE MOGAS 92 UNLEADED (PLATTS) SWAP FUTURES (NY-1N - CME)						
Spread Credit Rate	Decrease	+1:-1	80%	80%	73%	73%
PREMIUM UNLEADED GASOLINE 10 PPM (PLATTS) FOB MED SWAP FUTURES (NY-3G - CME) vs OMAN CRUDE OIL (NY-OQ - CME)						
Spread Credit Rate	Decrease	+3:-25	73%	73%	65%	65%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
EQUITY INDEX - Inter-commodity Spread Rates						
E-MINI NASDAQ-100 FUTURES (NQ - CME) vs 30 DAY FED FUNDS FUTURES (41 - CME)						
Spread Credit Rate	Decrease	+1:+10	40%	40%	35%	35%
Spread Credit Rate	Decrease	+1:+8	40%	40%	35%	35%
2-YEAR T-NOTE (26 - CME) vs S&P 500 (SP - CME)						
Spread Credit Rate	Decrease	+50:+1	50%	50%	40%	40%
BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME) vs E-MINI S&P MIDCAP 400 (ME - CME)						
Spread Credit Rate	Decrease	+2:-1	40%	40%	30%	30%
E-MINI DOW ($5) FUTURES (YM - CME) vs 2-YEAR T-NOTE (26 - CME)						
Spread Credit Rate	Decrease	+1:+9	50%	50%	45%	45%
E-MINI DOW ($5) FUTURES (YM - CME) vs 5-YEAR T-NOTE (25 - CME)						
Spread Credit Rate	Decrease	+1:+5	50%	50%	45%	45%
E-MINI DOW ($5) FUTURES (YM - CME) vs E-MINI S&P MIDCAP 400 (ME - CME)						
Spread Credit Rate	Decrease	+6:-5	75%	75%	65%	65%
E-MINI DOW ($5) FUTURES (YM - CME) vs S&P 500 (SP - CME)						
Spread Credit Rate	Decrease	+5:-1	90%	90%	88%	88%
E-MINI NASDAQ-100 FUTURES (NQ - CME) vs 2-YEAR T-NOTE (26 - CME)						
Spread Credit Rate	Decrease	+9:+1	25%	25%	0%	0%
E-MINI NASDAQ-100 FUTURES (NQ - CME) vs 5-YEAR T-NOTE (25 - CME)						
Spread Credit Rate	Decrease	+1:+6	45%	45%	40%	40%
E-MINI NASDAQ-100 FUTURES (NQ - CME) vs E-MINI DOW ($5) FUTURES (YM - CME)						
Spread Credit Rate	Decrease	+1:-1	60%	60%	55%	55%
E-MINI NASDAQ-100 FUTURES (NQ - CME) vs U.S. TREASURY BOND (17 - CME)						
Spread Credit Rate	Decrease	+1:+1	45%	45%	40%	40%
E-MINI NASDAQ-100 FUTURES (NQ - CME) vs ULTRA 10-YEAR U.S. TREASURY NOTE FUTURES (TN - CME)						
Spread Credit Rate	Decrease	+1:+2	45%	45%	40%	40%
E-MINI RUSSELL 1000 INDEX FUTURES (RS1 - CME) vs E-MINI S&P MIDCAP 400 (ME - CME)						
Spread Credit Rate	Decrease	+2:-1	75%	75%	65%	65%
E-MINI RUSSELL 1000 VALUE INDEX FUTURES (RSV - CME) vs E-MINI S&P MIDCAP 400 (ME - CME)						
Spread Credit Rate	Decrease	+2:-1	70%	70%	60%	60%
E-mini S&P 500 Futures vs USD-Denominated Ibovespa Futures						
Spread Credit Rate	Decrease	+5:-1	75%	75%	40%	40%
EMINI SP 500 ENERGY SECTOR INDEX (XAE) vs EMINI SP 500 CONS STAPLES SECTOR IX (XAP)						
Spread Credit Rate	Decrease	+1:-3	50%	50%	30%	30%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
EMINI SP 500 ENERGY SECTOR INDEX (XAE) vs EMINI SP500 - FINANCIAL SECT INDEX (XAF)						
Spread Credit Rate	Decrease	+1:-2	55%	55%	40%	40%
EMINI SP 500 ENERGY SECTOR INDEX (XAE) vs EMINI SP500-TECHNOLOGY SECTOR INDEX (XAK)						
Spread Credit Rate	Decrease	+1:-1	60%	60%	50%	50%
EMINI SP 500 ENERGY SECTOR INDEX (XAE) vs S&P 500 FUTURES (SP)						
Spread Credit Rate	Decrease	+10:-1	60%	60%	35%	35%
E-MINI SP500 CONS DISCRET SECTOR IX (XAY) vs S&P 500 FUTURES (SP)						
Spread Credit Rate	Decrease	+5:-1	70%	70%	65%	65%
EMINI SP500 MATERIALS SECTOR INDEX (XAB) vs EMINI SP 500 ENERGY SECTOR INDEX (XAE)						
Spread Credit Rate	Decrease	+2:-1	60%	60%	55%	55%
EMINI SP500 MATERIALS SECTOR INDEX (XAB) vs EMINI SP500-TECHNOLOGY SECTOR INDEX (XAK)						
Spread Credit Rate	Decrease	+3:-2	70%	70%	55%	55%
EURODOLLAR (ED - CME) Tier 1 vs S&P 500 (SP - CME)						
Spread Credit Rate	Decrease	+160:+1	50%	50%	42%	42%
EURODOLLAR (ED - CME) Tier 10 vs S&P 500 (SP - CME)						
Spread Credit Rate	Decrease	+60:+1	50%	50%	42%	42%
EURODOLLAR (ED - CME) Tier 11 vs S&P 500 (SP - CME)						
Spread Credit Rate	Decrease	+60:+1	50%	50%	42%	42%
EURODOLLAR (ED - CME) Tier 2 vs S&P 500 (SP - CME)						
Spread Credit Rate	Decrease	+100:+1	50%	50%	42%	42%
EURODOLLAR (ED - CME) Tier 3 vs S&P 500 (SP - CME)						
Spread Credit Rate	Decrease	+60:+1	50%	50%	42%	42%
EURODOLLAR (ED - CME) Tier 4 vs S&P 500 (SP - CME)						
Spread Credit Rate	Decrease	+60:+1	50%	50%	42%	42%
EURODOLLAR (ED - CME) Tier 5 vs S&P 500 (SP - CME)						
Spread Credit Rate	Decrease	+60:+1	50%	50%	42%	42%
EURODOLLAR (ED - CME) Tier 6 vs S&P 500 (SP - CME)						
Spread Credit Rate	Decrease	+60:+1	50%	50%	42%	42%
EURODOLLAR (ED - CME) Tier 7 vs S&P 500 (SP - CME)						
Spread Credit Rate	Decrease	+60:+1	50%	50%	42%	42%
EURODOLLAR (ED - CME) Tier 8 vs S&P 500 (SP - CME)						
Spread Credit Rate	Decrease	+60:+1	50%	50%	42%	42%
EURODOLLAR (ED - CME) Tier 9 vs S&P 500 (SP - CME)						
Spread Credit Rate	Decrease	+60:+1	50%	50%	42%	42%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
EURODOLLAR (ED - CME) vs E-MINI DOW ($5) FUTURES (YM - CME)						
Spread Credit Rate	Decrease	+14:+1	50%	50%	45%	45%
Spread Credit Rate	Decrease	+11:+1	50%	50%	45%	45%
Spread Credit Rate	Decrease	+8:+1	50%	50%	45%	45%
Spread Credit Rate	Decrease	+7:+1	50%	50%	45%	45%
EURODOLLAR (ED - CME) vs E-MINI NASDAQ-100 FUTURES (NQ - CME)						
Spread Credit Rate	Decrease	+15:+1	45%	45%	35%	35%
Spread Credit Rate	Decrease	+11:+1	45%	45%	35%	35%
Spread Credit Rate	Decrease	+8:+1	45%	45%	35%	35%
FTSE EMERGING INDEX FUTURES (EI - CME) vs E-MINI DOW ($5) FUTURES (YM - CME)						
Spread Credit Rate	Decrease	+2:-1	65%	65%	50%	50%
FTSE EMERGING INDEX FUTURES (EI - CME) vs E-MINI NASDAQ-100 FUTURES (NQ - CME)						
Spread Credit Rate	Decrease	+5:-2	55%	55%	45%	45%
FTSE EMERGING INDEX FUTURES (EI - CME) vs E-MINI S&P MIDCAP 400 (ME - CME)						
Spread Credit Rate	Decrease	+7:-2	60%	60%	50%	50%
FTSE EMERGING INDEX FUTURES (EI - CME) vs USD-DENOMINATED IBOVESPA INDEX (IBV - CME)						
Spread Credit Rate	Decrease	+1:-1	66%	66%	35%	35%
GOLD FUTURES (CX-GC - CME) vs E-MINI DOW ($5) FUTURES (YM - CME)						
Spread Credit Rate	Decrease	+1:+1	30%	30%	0%	0%
GOLD FUTURES (CX-GC - CME) vs E-MINI NASDAQ-100 FUTURES (NQ - CME)						
Spread Credit Rate	Decrease	+1:+1	30%	30%	0%	0%
GOLD FUTURES (CX-GC - CME) vs E-MINI RUSSELL 2000 INDEX FUTURES (RTY - CME)						
Spread Credit Rate	Decrease	+1:+2	30%	30%	0%	0%
GOLD FUTURES (CX-GC - CME) vs E-MINI S&P MIDCAP 400 (ME - CME)						
Spread Credit Rate	Decrease	+1:+1	30%	30%	0%	0%
GOLD FUTURES (CX-GC - CME) vs S&P 500 (SP - CME)						
Spread Credit Rate	Decrease	+1:+1	30%	30%	0%	0%
GOLD FUTURES (CX-GC - CME) vs S&P 500 TOTAL RETURN INDEX FUTURES (TRF - CME)						
Spread Credit Rate	Decrease	+1:+1	30%	30%	0%	0%
LIGHT SWEET CRUDE OIL FUTURES (NY-CL - CME) vs E-MINI S&P MIDCAP 400 (ME - CME)						
Spread Credit Rate	Decrease	+2:-1	45%	45%	30%	30%
NEW YORK HARBOR NO. 2 HEATING OIL FUTURES (NY-HO - CME) vs E-MINI RUSSELL 2000 INDEX FUTURES (RTY - CME)						
Spread Credit Rate	Decrease	+1:-1	45%	45%	40%	40%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
NEW YORK HARBOR NO. 2 HEATING OIL FUTURES (NY-HO - CME) vs E-MINI S&P MIDCAP 400 (ME - CME)						
Spread Credit Rate	Decrease	+2:-1	45%	45%	35%	35%
NIKKEI 225 DOLLAR-BASED (NK - CME) vs E-MINI NASDAQ-100 FUTURES (NQ - CME)						
Spread Credit Rate	Decrease	+2:-5	40%	40%	30%	30%
NIKKEI 225 Stock Index (NK) vs. S&P 500 Stock Index (SP)						
Spread Credit Rate	Decrease	+5:-1	75%	75%	70%	70%
RBOB GASOLINE FUTURES (NY-RB - CME) vs E-MINI RUSSELL 2000 INDEX FUTURES (RTY - CME)						
Spread Credit Rate	Decrease	-1:+1	40%	40%	35%	35%
RBOB GASOLINE FUTURES (NY-RB - CME) vs E-MINI S&P MIDCAP 400 (ME - CME)						
Spread Credit Rate	Decrease	+2:-1	40%	40%	35%	35%
S&P 500 (SP - CME) vs FED FUNDS (41 - CME)						
Spread Credit Rate	Decrease	+1:+70	50%	50%	40%	40%
Spread Credit Rate	Decrease	+1:+50	50%	50%	40%	40%
S&P 500 TOTAL RETURN INDEX FUTURES (TRF - CME) vs 2-YEAR T-NOTE (26 - CME)						
Spread Credit Rate	Decrease	+1:+11	45%	45%	40%	40%
S&P 500 TOTAL RETURN INDEX FUTURES (TRF - CME) vs EURODOLLAR (ED - CME)						
Spread Credit Rate	Decrease	+1:+20	50%	50%	42%	42%
Spread Credit Rate	Decrease	+1:+12	50%	50%	42%	42%
S&P 500 TOTAL RETURN INDEX FUTURES (TRF - CME) vs FED FUNDS (41 - CME)						
Spread Credit Rate	Decrease	+1:+20	45%	45%	40%	40%
Spread Credit Rate	Decrease	+1:+14	45%	45%	40%	40%
Spread Credit Rate	Decrease	+1:+10	45%	45%	40%	40%
S&P 500 TOTAL RETURN INDEX FUTURES (TRF - CME) vs S&P SELECT SECTOR - CONSUMER DISCRETIONARY (XAY - CME)						
Spread Credit Rate	Decrease	+1:-1	70%	70%	60%	60%
S&P 500 TOTAL RETURN INDEX FUTURES (TRF - CME) vs S&P SELECT SECTOR - HEALTH CARE (XAV - CME)						
Spread Credit Rate	Decrease	+1:-2	65%	65%	55%	55%
S&P 500 TOTAL RETURN INDEX FUTURES (TRF - CME) vs ULTRA LONG TREASURY BOND (UBE - CME)						
Spread Credit Rate	Decrease	+1:+2	45%	45%	40%	40%
S&P Midcap 400 (MD) vs. S&P 500 Stock Index (SP)						
Spread Credit Rate	Decrease	+5:-2	75%	75%	70%	70%
S&P SELECT SECTOR - ENERGY (XAE - CME) vs E-MINI DOW ($5) FUTURES (YM - CME)						
Spread Credit Rate	Decrease	+1:-1	65%	65%	40%	40%
S&P SELECT SECTOR - ENERGY (XAE - CME) vs E-MINI NASDAQ-100 FUTURES (NQ - CME)						
Spread Credit Rate	Decrease	+4:-5	45%	45%	25%	25%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
S&P SELECT SECTOR - INDUSTRIAL (XAI - CME) vs E-MINI S&P MIDCAP 400 (ME - CME)						
Spread Credit Rate	Decrease	+12:-5	78%	78%	70%	70%
S&P SELECT SECTOR - MATERIALS (XAB - CME) vs E-MINI S&P MIDCAP 400 (ME - CME)						
Spread Credit Rate	Decrease	+12:-5	75%	75%	70%	70%
SP Total Return Index (TRF) vs. ES(SP)						
Spread Credit Rate	Decrease	+1:-5	87%	87%	85%	85%
ULTRA 10-YEAR U.S. TREASURY NOTE FUTURES (TN - CME) vs S&P 500 (SP - CME)						
Spread Credit Rate	Decrease	+20:+2	50%	50%	45%	45%
ULTRA LONG TREASURY BOND (UBE - CME) vs S&P 500 (SP - CME)						
Spread Credit Rate	Decrease	+10:+1	50%	50%	40%	40%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
		FX - Inter-commodity Spread Rates				
AFRICAN RAND (RA - CME) vs NORWEGIAN KRONE (UN - CME)						
Spread Credit Rate	Decrease	-6:+1	50%	50%	30%	30%
AFRICAN RAND (RA - CME) vs SWEDISH KRONA (SE - CME)						
Spread Credit Rate	Decrease	+6:+1	45%	45%	20%	20%
AUSTRALIAN DOLLAR (AD - CME) vs JAPANESE YEN (JY - CME)						
Spread Credit Rate	Decrease	+3:-2	40%	40%	25%	25%
AUSTRALIAN DOLLAR (AD - CME) vs NORWEGIAN KRONE (UN - CME)						
Spread Credit Rate	Decrease	+4:-1	54%	54%	40%	40%
Australian Dollar (AD) vs. Euro FX (EC)						
Spread Credit Rate	Decrease	+2:-1	58%	58%	40%	40%
AUSTRALIAN DOLLAR/JAPANESE YEN CROSSRATE (AJ - CME) vs AUSTRALIAN DOLLAR/NEW ZEALAND DOLLAR CROSSRATE (RY - CME)						
Spread Credit Rate	Decrease	+1:-1	40%	40%	25%	25%
BRITISH POUND (BP - CME) vs CZECH KORUNA (CZ - CME)						
Spread Credit Rate	Decrease	+2:-5	30%	30%	20%	20%
CANADIAN DOLLAR (CD - CME) vs NORWEGIAN KRONE (UN - CME)						
Spread Credit Rate	Decrease	+3:-1	50%	50%	20%	20%
Canadian Dollar (CD) vs. Swiss Franc (SF)						
Spread Credit Rate	Decrease	+5:-6	44%	44%	30%	30%
CZECH KORUNA (CZ - CME) vs NORWEGIAN KRONE (UN - CME)						
Spread Credit Rate	Decrease	+5:-3	60%	60%	30%	30%
CZECH KORUNA (CZ - CME) vs SWISS FRANC (SF - CME)						
Spread Credit Rate	Decrease	+2:-1	35%	35%	20%	20%
Czech Koruna (CZ) vs. Euro FX (EC)						
Spread Credit Rate	Decrease	+2:-1	50%	50%	30%	30%
EURO FX (EC - CME) vs CROSS RATE EURO FX/AUSTRALIAN DOLLAR (CA - CME)						
Spread Credit Rate	Decrease	+1:-2	30%	30%	0%	0%
EURO FX (EC - CME) vs GOLD FUTURES (CX-GC - CME)						
Spread Credit Rate	Decrease	+1:-2	40%	40%	20%	20%
EURO FX (EC - CME) vs NORWEGIAN KRONE (UN - CME)						
Spread Credit Rate	Decrease	+1:-2	54%	54%	25%	25%
Euro FX (EC) vs. Cross Rate Euro FX/Japanese Yen (RY)						
Spread Credit Rate	Decrease	+1:-1	40%	40%	0%	0%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
EURO FX FUTURES (EC) VS vs CHINESE RENMINBI/EURO FX CROSSRATE FUTURES (RME)						
Spread Credit Rate	Decrease	+1:+1	30%	30%	0%	0%
EURO FX/SWISS FRANC CROSSRATE (RF - CME) vs BRITISH POUND/JAPANESE YEN CROSSRATE (BY - CME)						
Spread Credit Rate	Decrease	+1:-1	30%	30%	20%	20%
GOLD FUTURES (CX-GC - CME) vs JAPANESE YEN (JY - CME)						
Spread Credit Rate	Decrease	+1:-1	45%	45%	20%	20%
GOLD FUTURES (CX-GC - CME) vs SWISS FRANC (SF - CME)						
Spread Credit Rate	Decrease	+1:-1	50%	50%	0%	0%
HUNGARIAN FORINT (FR - CME) vs NORWEGIAN KRONE (UN - CME)						
Spread Credit Rate	Decrease	+2:-5	30%	30%	0%	0%
JAPANESE YEN (JY - CME) vs 10-YEAR T-NOTE (21 - CME)						
Spread Credit Rate	Decrease	+1:-1	60%	60%	40%	40%
JAPANESE YEN (JY - CME) vs 5-YEAR T-NOTE (25 - CME)						
Spread Credit Rate	Decrease	+1:-1	60%	60%	20%	20%
JAPANESE YEN (JY - CME) vs U.S. TREASURY BOND (17 - CME)						
Spread Credit Rate	Decrease	+1:-1	45%	45%	30%	30%
JAPANESE YEN (JY - CME) vs ULTRA 10-YEAR U.S. TREASURY NOTE FUTURES (TN - CME)						
Spread Credit Rate	Decrease	+1:-1	60%	60%	40%	40%
JAPANESE YEN (JY - CME) vs ULTRA LONG TREASURY BOND (UBE - CME)						
Spread Credit Rate	Decrease	+3:-2	50%	50%	20%	20%
JAPANESE YEN FUTURES (JY) vs OFFSHORE RMB FUTURES (CNH)						
Spread Credit Rate	Decrease	+1:-1	45%	45%	0%	0%
NEW ZEALAND DOLLAR (NE - CME) vs NORWEGIAN KRONE (UN - CME)						
Spread Credit Rate	Decrease	+1:-5	35%	35%	0%	0%
POLISH ZLOTY (PZ - CME) vs NORWEGIAN KRONE (UN - CME)						
Spread Credit Rate	Decrease	+1:-2	30%	30%	0%	0%
SILVER FUTURES (CX-SI - CME) vs JAPANESE YEN (JY - CME)						
Spread Credit Rate	Decrease	+2:-1	30%	30%	0%	0%
SWISS FRANC (SF - CME) vs CROSS RATE SWISS FRANC/JAPANESE YEN (SJ - CME)						
Spread Credit Rate	Decrease	+2:-1	30%	30%	0%	0%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
INTEREST RATES - Inter-commodity Spread Rates						
E-MINI NASDAQ-100 FUTURES (NQ - CME) vs 30 DAY FED FUNDS FUTURES (41 - CME)						
Spread Credit Rate	Decrease	+1:+10	40%	40%	35%	35%
Spread Credit Rate	Decrease	+1:+8	40%	40%	35%	35%
10 Year Treasury Note (21) vs. Fed Funds (41) Tier 2 (Months 2-4)						
Spread Credit Rate	Decrease	+1:-2	30%	30%	25%	25%
10 Year Treasury Note (21) vs. Fed Funds (41) Tier 3 (Months 5-12)						
Spread Credit Rate	Decrease	+1:-2	55%	55%	45%	45%
10 Year Treasury Note (21) vs. Fed Funds (41) Tier 4 (Months 13-24)						
Spread Credit Rate	Decrease	+1:-2	55%	55%	45%	45%
10 Year Treasury Note (21) vs. Fed Funds (41) Tier 5 (Months 25+)						
Spread Credit Rate	Decrease	+1:-2	55%	55%	45%	45%
1M SOFR FUTURES (SR1 - CME) Month 3 vs 10-YEAR T-NOTE (21 - CME) All Months						
Spread Credit Rate	Decrease	+2:-1	55%	55%	45%	45%
1M SOFR FUTURES (SR1 - CME) Month 4 vs 10-YEAR T-NOTE (21 - CME) All Months						
Spread Credit Rate	Decrease	+2:-1	55%	55%	45%	45%
1M SOFR FUTURES (SR1 - CME) Months 5+ vs 10-YEAR T-NOTE (21 - CME) All Months						
Spread Credit Rate	Decrease	+2:-1	55%	55%	45%	45%
2-YEAR T-NOTE (26 - CME) vs S&P 500 (SP - CME)						
Spread Credit Rate	Decrease	+50:+1	50%	50%	40%	40%
2YR INTEREST RATE SWAP FUTURE ERIS Tier 3 vs 10YR TREASURY						
Spread Credit Rate	Decrease	+4:-1	40%	40%	25%	25%
2YR INTEREST RATE SWAP FUTURE ERIS Tier 3 vs 2YR TREASURY						
Spread Credit Rate	Decrease	+2:-1	50%	50%	30%	30%
Spread Credit Rate	Decrease	+5:-2	50%	50%	30%	30%
2YR INTEREST RATE SWAP FUTURE ERIS Tier 4 vs 10YR TREASURY						
Spread Credit Rate	Decrease	-4:+1	60%	60%	40%	40%
2YR INTEREST RATE SWAP FUTURE ERIS Tier 4 vs 2YR TREASURY						
Spread Credit Rate	Decrease	-2:+1	80%	80%	70%	70%
2YR INTEREST RATE SWAP FUTURE ERIS Tier 4 vs 30YR TREASURY						
Spread Credit Rate	Decrease	-10:+1	35%	35%	0%	0%
2YR INTEREST RATE SWAP FUTURE ERIS Tier 4 vs 5YR TREASURY						
Spread Credit Rate	Decrease	-5:+2	50%	50%	30%	30%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
2YR INTEREST RATE SWAP FUTURE ERIS Tier 5 vs 10YR TREASURY						
Spread Credit Rate	Decrease	+4:-1	70%	70%	55%	55%
2YR INTEREST RATE SWAP FUTURE ERIS Tier 5 vs 2YR TREASURY						
Spread Credit Rate	Decrease	+2:-1	90%	90%	75%	75%
Spread Credit Rate	Decrease	+5:-2	80%	80%	60%	60%
2YR INTEREST RATE SWAP FUTURE ERIS Tier 5 vs 30YR TREASURY						
Spread Credit Rate	Decrease	+10:-1	50%	50%	0%	0%
3M SOFR FUTURES (SR3 - CME) Tier 3 vs 10-YEAR T-NOTE (21 - CME) All Months						
Spread Credit Rate	Decrease	+3:-1	65%	65%	50%	50%
3M SOFR FUTURES (SR3 - CME) Tier 4 vs 10-YEAR T-NOTE (21 - CME) All Months						
Spread Credit Rate	Decrease	+3:-1	70%	70%	55%	55%
3M SOFR FUTURES (SR3 - CME) Tier 5 vs 10-YEAR T-NOTE (21 - CME) All Months						
Spread Credit Rate	Decrease	+1:-3	70%	70%	55%	55%
3M SOFR FUTURES (SR3 - CME) Tier 6 vs 10-YEAR T-NOTE (21 - CME) All Months						
Spread Credit Rate	Decrease	+1:-3	70%	70%	55%	55%
3M SOFR FUTURES (SR3 - CME) Tier 7 vs 10-YEAR T-NOTE (21 - CME) All Months						
Spread Credit Rate	Decrease	+1:-3	70%	70%	55%	55%
3YR INTEREST RATE SWAP FUTURE ERIS (LIC - CME) Tier 3 vs 10-YEAR T-NOTE (21 - CME)						
Spread Credit Rate	Decrease	+5:-2	35%	35%	0%	0%
3YR INTEREST RATE SWAP FUTURE ERIS (LIC - CME) Tier 3 vs ULTRA 10-YEAR U.S. TREASURY NOTE FUTURES (TN - CME)						
Spread Credit Rate	Decrease	+4:-1	35%	35%	0%	0%
3YR INTEREST RATE SWAP FUTURE ERIS (LIC - CME) Tier 4 vs 10-YEAR T-NOTE (21 - CME)						
Spread Credit Rate	Decrease	+5:-2	50%	50%	30%	30%
3YR INTEREST RATE SWAP FUTURE ERIS (LIC - CME) Tier 4 vs 5-YEAR T-NOTE (25 - CME)						
Spread Credit Rate	Decrease	+5:-3	50%	50%	40%	40%
3YR INTEREST RATE SWAP FUTURE ERIS (LIC - CME) Tier 4 vs ULTRA 10-YEAR U.S. TREASURY NOTE FUTURES (TN - CME)						
Spread Credit Rate	Decrease	+4:-1	45%	45%	30%	30%
3YR INTEREST RATE SWAP FUTURE ERIS (LIC - CME) Tier 6 vs 10-YEAR T-NOTE (21 - CME)						
Spread Credit Rate	Decrease	+5:-2	60%	60%	50%	50%
3YR INTEREST RATE SWAP FUTURE ERIS LIC- CME) Tier 3 vs 2-YEAR T-NOTE (26 - CME)						
Spread Credit Rate	Decrease	+3:-2	50%	50%	40%	40%
3YR INTEREST RATE SWAP FUTURE ERIS LIC- CME) Tier 4 vs 2-YEAR T-NOTE (26 - CME)						
Spread Credit Rate	Decrease	+3:-2	50%	50%	40%	40%

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
3YR INTEREST RATE SWAP FUTURE ERIS LIC- CME) Tier 7 vs 2-YEAR T-NOTE (26 - CME)						
Spread Credit Rate	Decrease	-3:+2	75%	75%	70%	70%
4 YR INTEREST RATE SWAP FUTURE ERIS LID- CME) Tier 3 vs 10-YEAR T-NOTE (21 - CME)						
Spread Credit Rate	Decrease	+2:-1	40%	40%	0%	0%
4 YR INTEREST RATE SWAP FUTURE ERIS LID- CME) Tier 3 vs 5-YEAR T-NOTE (25 - CME)						
Spread Credit Rate	Decrease	+3:-2	40%	40%	30%	30%
4 YR INTEREST RATE SWAP FUTURE ERIS LID- CME) Tier 3 vs ULTRA 10-YEAR U.S. TREASURY NOTE FUTURES (TN - CME)						
Spread Credit Rate	Decrease	+3:-1	40%	40%	30%	30%
4 YR INTEREST RATE SWAP FUTURE ERIS LID- CME) Tier 4 vs 10-YEAR T-NOTE (21 - CME)						
Spread Credit Rate	Decrease	+2:-1	60%	60%	30%	30%
4 YR INTEREST RATE SWAP FUTURE ERIS LID- CME) Tier 4 vs 2-YEAR T-NOTE (26 - CME)						
Spread Credit Rate	Decrease	+10:-9	65%	65%	55%	55%
4 YR INTEREST RATE SWAP FUTURE ERIS LID- CME) Tier 4 vs 5-YEAR T-NOTE (25 - CME)						
Spread Credit Rate	Decrease	+3:-2	55%	55%	40%	40%
4 YR INTEREST RATE SWAP FUTURE ERIS LID- CME) Tier 4 vs ULTRA 10-YEAR U.S. TREASURY NOTE FUTURES (TN - CME)						
Spread Credit Rate	Decrease	+3:-1	60%	60%	30%	30%
4 YR INTEREST RATE SWAP FUTURE ERIS LID- CME) Tier 5 vs 10-YEAR T-NOTE (21 - CME)						
Spread Credit Rate	Decrease	+2:-1	70%	70%	40%	40%
4 YR INTEREST RATE SWAP FUTURE ERIS LID- CME) Tier 5 vs 5-YEAR T-NOTE (25 - CME)						
Spread Credit Rate	Decrease	+3:-2	70%	70%	50%	50%
4 YR INTEREST RATE SWAP FUTURE ERIS LID- CME) Tier 5 vs ULTRA 10-YEAR U.S. TREASURY NOTE FUTURES (TN - CME)						
Spread Credit Rate	Decrease	+3:-1	60%	60%	40%	40%
4 YR INTEREST RATE SWAP FUTURE ERIS LID- CME) Tier 6 vs 10-YEAR T-NOTE (21 - CME)						
Spread Credit Rate	Decrease	+2:-1	70%	70%	60%	60%
5 Year Treasury Note (25) vs. Fed Funds (CBOT) (41) Tier 3 (Months 5-12)						
Spread Credit Rate	Decrease	+2:-3	70%	70%	60%	60%
5 Year Treasury Note (25) vs. Fed Funds (CBOT) (41) Tier 4 (Months 13-24)						
Spread Credit Rate	Decrease	+2:-3	70%	70%	60%	60%
5 Year Treasury Note (25) vs. Fed Funds (CBOT) (41) Tier 5 (Months 25+)						
Spread Credit Rate	Decrease	+2:-3	70%	70%	60%	60%
5YR INTEREST RATE SWAP FUTURE ERIS Contracts 11-12 vs 5YR TREASURY						
Spread Credit Rate	Decrease	+10:-9	65%	65%	50%	50%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
5YR INTEREST RATE SWAP FUTURE ERIS Contracts 13-14 vs 5YR TREASURY						
Spread Credit Rate	Decrease	+10:-9	70%	70%	55%	55%
5YR INTEREST RATE SWAP FUTURE ERIS Contracts 15-16 vs 5YR TREASURY						
Spread Credit Rate	Decrease	+10:-9	85%	85%	65%	65%
5YR INTEREST RATE SWAP FUTURE ERIS Contracts 17-18 vs 5YR TREASURY						
Spread Credit Rate	Decrease	+10:-9	90%	90%	75%	75%
5YR INTEREST RATE SWAP FUTURE ERIS Contracts 19-20 vs 5YR TREASURY						
Spread Credit Rate	Decrease	+10:-9	90%	90%	80%	80%
5YR INTEREST RATE SWAP FUTURE ERIS Contracts 21+ (LIW - CME) vs ULTRA LONG TREASURY BOND (UBE - CME)						
Spread Credit Rate	Decrease	+7:-1	60%	60%	30%	30%
5YR INTEREST RATE SWAP FUTURE ERIS Contracts 21+ vs 30YR TREASURY						
Spread Credit Rate	Decrease	+4:-1	60%	60%	50%	50%
5YR INTEREST RATE SWAP FUTURE ERIS Contracts 21+ vs 5YR TREASURY						
Spread Credit Rate	Decrease	+10:-9	90%	90%	80%	80%
5YR INTEREST RATE SWAP FUTURE ERIS Contracts 5-6 vs 5YR TREASURY						
Spread Credit Rate	Decrease	-10:+9	45%	45%	0%	0%
5YR INTEREST RATE SWAP FUTURE ERIS Contracts 7-8 vs 5YR TREASURY						
Spread Credit Rate	Decrease	+10:-9	45%	45%	30%	30%
5YR INTEREST RATE SWAP FUTURE ERIS Contracts 9-10 vs 5YR TREASURY						
Spread Credit Rate	Decrease	+10:-9	55%	55%	40%	40%
5YR INTEREST RATE SWAP FUTURE ERIS Contracts Tier 11 vs 2YR TREASURY						
Spread Credit Rate	Decrease	+9:-10	75%	75%	70%	70%
5YR INTEREST RATE SWAP FUTURE ERIS Contracts Tier 4 vs 2YR TREASURY						
Spread Credit Rate	Decrease	-9:+10	50%	50%	40%	40%
5YR INTEREST RATE SWAP FUTURE ERIS Contracts Tier 5 vs 2YR TREASURY						
Spread Credit Rate	Decrease	+9:-10	60%	60%	50%	50%
5YR INTEREST RATE SWAP FUTURE ERIS Contracts Tier 6 vs 2YR TREASURY						
Spread Credit Rate	Decrease	+9:-10	70%	70%	60%	60%
5YR INTEREST RATE SWAP FUTURE ERIS Tier 10 (LIW - CME) vs ULTRA LONG TREASURY BOND (UBE - CME)						
Spread Credit Rate	Decrease	+7:-1	60%	60%	30%	30%
5YR INTEREST RATE SWAP FUTURE ERIS Tier 10 vs 10YR TREASURY						
Spread Credit Rate	Decrease	+7:-4	80%	80%	70%	70%
5YR INTEREST RATE SWAP FUTURE ERIS Tier 10 vs 30YR TREASURY						
Spread Credit Rate	Decrease	+4:-1	60%	60%	50%	50%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
5YR INTEREST RATE SWAP FUTURE ERIS Tier 11 vs 10YR TREASURY						
Spread Credit Rate	Decrease	+7:-4	85%	85%	75%	75%
5YR INTEREST RATE SWAP FUTURE ERIS Tier 4 (LIW - CME) vs ULTRA LONG TREASURY BOND (UBE - CME)						
Spread Credit Rate	Decrease	-7:+1	35%	35%	0%	0%
5YR INTEREST RATE SWAP FUTURE ERIS Tier 4 vs 10YR TREASURY						
Spread Credit Rate	Decrease	+7:-4	40%	40%	0%	0%
5YR INTEREST RATE SWAP FUTURE ERIS Tier 4 vs 30YR TREASURY						
Spread Credit Rate	Decrease	-4:+1	35%	35%	0%	0%
5YR INTEREST RATE SWAP FUTURE ERIS Tier 5 (LIW - CME) vs ULTRA LONG TREASURY BOND (UBE - CME)						
Spread Credit Rate	Decrease	+7:-1	45%	45%	0%	0%
5YR INTEREST RATE SWAP FUTURE ERIS Tier 5 vs 10YR TREASURY						
Spread Credit Rate	Decrease	+7:-4	50%	50%	30%	30%
5YR INTEREST RATE SWAP FUTURE ERIS Tier 5 vs 30YR TREASURY						
Spread Credit Rate	Decrease	+4:-1	50%	50%	0%	0%
5YR INTEREST RATE SWAP FUTURE ERIS Tier 6 (LIW - CME) vs ULTRA LONG TREASURY BOND (UBE - CME)						
Spread Credit Rate	Decrease	+7:-1	45%	45%	0%	0%
5YR INTEREST RATE SWAP FUTURE ERIS Tier 6 vs 10YR TREASURY						
Spread Credit Rate	Decrease	+7:-4	60%	60%	40%	40%
5YR INTEREST RATE SWAP FUTURE ERIS Tier 6 vs 30YR TREASURY						
Spread Credit Rate	Decrease	+4:-1	50%	50%	35%	35%
5YR INTEREST RATE SWAP FUTURE ERIS Tier 7 (LIW - CME) vs ULTRA LONG TREASURY BOND (UBE - CME)						
Spread Credit Rate	Decrease	+7:-1	60%	60%	30%	30%
5YR INTEREST RATE SWAP FUTURE ERIS Tier 7 vs 10YR TREASURY						
Spread Credit Rate	Decrease	+7:-4	70%	70%	50%	50%
5YR INTEREST RATE SWAP FUTURE ERIS Tier 7 vs 30YR TREASURY						
Spread Credit Rate	Decrease	+4:-1	60%	60%	35%	35%
5YR INTEREST RATE SWAP FUTURE ERIS Tier 8 (LIW - CME) vs ULTRA LONG TREASURY BOND (UBE - CME)						
Spread Credit Rate	Decrease	+7:-1	60%	60%	30%	30%
5YR INTEREST RATE SWAP FUTURE ERIS Tier 8 vs 10YR TREASURY						
Spread Credit Rate	Decrease	+7:-4	75%	75%	55%	55%
5YR INTEREST RATE SWAP FUTURE ERIS Tier 8 vs 30YR TREASURY						
Spread Credit Rate	Decrease	+4:-1	60%	60%	35%	35%
5YR INTEREST RATE SWAP FUTURE ERIS Tier 9 (LIW - CME) vs ULTRA LONG TREASURY BOND (UBE - CME)						
Spread Credit Rate	Decrease	+7:-1	60%	60%	30%	30%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
5YR INTEREST RATE SWAP FUTURE ERIS Tier 9 vs 10YR TREASURY						
Spread Credit Rate	Decrease	+7:-4	80%	80%	70%	70%
5YR INTEREST RATE SWAP FUTURE ERIS Tier 9 vs 30YR TREASURY						
Spread Credit Rate	Decrease	+4:-1	60%	60%	50%	50%
E-MINI DOW ($5) FUTURES (YM - CME) vs 2-YEAR T-NOTE (26 - CME)						
Spread Credit Rate	Decrease	+1:+9	50%	50%	45%	45%
E-MINI DOW ($5) FUTURES (YM - CME) vs 5-YEAR T-NOTE (25 - CME)						
Spread Credit Rate	Decrease	+1:+5	50%	50%	45%	45%
E-MINI NASDAQ-100 FUTURES (NQ - CME) vs 2-YEAR T-NOTE (26 - CME)						
Spread Credit Rate	Decrease	+9:+1	25%	25%	0%	0%
E-MINI NASDAQ-100 FUTURES (NQ - CME) vs 5-YEAR T-NOTE (25 - CME)						
Spread Credit Rate	Decrease	+1:+6	45%	45%	40%	40%
E-MINI NASDAQ-100 FUTURES (NQ - CME) vs U.S. TREASURY BOND (17 - CME)						
Spread Credit Rate	Decrease	+1:+1	45%	45%	40%	40%
E-MINI NASDAQ-100 FUTURES (NQ - CME) vs ULTRA 10-YEAR U.S. TREASURY NOTE FUTURES (TN - CME)						
Spread Credit Rate	Decrease	+1:+2	45%	45%	40%	40%
EURODOLLAR (ED - CME) Tier 1 vs S&P 500 (SP - CME)						
Spread Credit Rate	Decrease	+160:+1	50%	50%	42%	42%
EURODOLLAR (ED - CME) Tier 10 vs S&P 500 (SP - CME)						
Spread Credit Rate	Decrease	+60:+1	50%	50%	42%	42%
EURODOLLAR (ED - CME) Tier 11 vs S&P 500 (SP - CME)						
Spread Credit Rate	Decrease	+60:+1	50%	50%	42%	42%
EURODOLLAR (ED - CME) Tier 2 vs S&P 500 (SP - CME)						
Spread Credit Rate	Decrease	+100:+1	50%	50%	42%	42%
EURODOLLAR (ED - CME) Tier 3 vs S&P 500 (SP - CME)						
Spread Credit Rate	Decrease	+60:+1	50%	50%	42%	42%
EURODOLLAR (ED - CME) Tier 4 vs S&P 500 (SP - CME)						
Spread Credit Rate	Decrease	+60:+1	50%	50%	42%	42%
EURODOLLAR (ED - CME) Tier 5 vs S&P 500 (SP - CME)						
Spread Credit Rate	Decrease	+60:+1	50%	50%	42%	42%
EURODOLLAR (ED - CME) Tier 6 vs S&P 500 (SP - CME)						
Spread Credit Rate	Decrease	+60:+1	50%	50%	42%	42%
EURODOLLAR (ED - CME) Tier 7 vs S&P 500 (SP - CME)						
Spread Credit Rate	Decrease	+60:+1	50%	50%	42%	42%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
EURODOLLAR (ED - CME) Tier 8 vs S&P 500 (SP - CME)						
Spread Credit Rate	Decrease	+60:+1	50%	50%	42%	42%
EURODOLLAR (ED - CME) Tier 9 vs S&P 500 (SP - CME)						
Spread Credit Rate	Decrease	+60:+1	50%	50%	42%	42%
EURODOLLAR (ED - CME) vs E-MINI DOW ($5) FUTURES (YM - CME)						
Spread Credit Rate	Decrease	+14:+1	50%	50%	45%	45%
Spread Credit Rate	Decrease	+11:+1	50%	50%	45%	45%
Spread Credit Rate	Decrease	+8:+1	50%	50%	45%	45%
Spread Credit Rate	Decrease	+7:+1	50%	50%	45%	45%
EURODOLLAR (ED - CME) vs E-MINI NASDAQ-100 FUTURES (NQ - CME)						
Spread Credit Rate	Decrease	+15:+1	45%	45%	35%	35%
Spread Credit Rate	Decrease	+11:+1	45%	45%	35%	35%
Spread Credit Rate	Decrease	+8:+1	45%	45%	35%	35%
JAPANESE YEN (JY - CME) vs 10-YEAR T-NOTE (21 - CME)						
Spread Credit Rate	Decrease	+1:-1	60%	60%	40%	40%
JAPANESE YEN (JY - CME) vs 5-YEAR T-NOTE (25 - CME)						
Spread Credit Rate	Decrease	+1:-1	60%	60%	20%	20%
JAPANESE YEN (JY - CME) vs U.S. TREASURY BOND (17 - CME)						
Spread Credit Rate	Decrease	+1:-1	45%	45%	30%	30%
JAPANESE YEN (JY - CME) vs ULTRA 10-YEAR U.S. TREASURY NOTE FUTURES (TN - CME)						
Spread Credit Rate	Decrease	+1:-1	60%	60%	40%	40%
JAPANESE YEN (JY - CME) vs ULTRA LONG TREASURY BOND (UBE - CME)						
Spread Credit Rate	Decrease	+3:-2	50%	50%	20%	20%
S&P 500 (SP - CME) vs FED FUNDS (41 - CME)						
Spread Credit Rate	Decrease	+1:+70	50%	50%	40%	40%
Spread Credit Rate	Decrease	+1:+50	50%	50%	40%	40%
S&P 500 TOTAL RETURN INDEX FUTURES (TRF - CME) vs 2-YEAR T-NOTE (26 - CME)						
Spread Credit Rate	Decrease	+1:+11	45%	45%	40%	40%
S&P 500 TOTAL RETURN INDEX FUTURES (TRF - CME) vs EURODOLLAR (ED - CME)						
Spread Credit Rate	Decrease	+1:+20	50%	50%	42%	42%
Spread Credit Rate	Decrease	+1:+12	50%	50%	42%	42%
S&P 500 TOTAL RETURN INDEX FUTURES (TRF - CME) vs FED FUNDS (41 - CME)						
Spread Credit Rate	Decrease	+1:+20	45%	45%	40%	40%
Spread Credit Rate	Decrease	+1:+14	45%	45%	40%	40%
Spread Credit Rate	Decrease	+1:+10	45%	45%	40%	40%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
S&P 500 TOTAL RETURN INDEX FUTURES (TRF - CME) vs ULTRA LONG TREASURY BOND (UBE - CME)						
Spread Credit Rate	Decrease	+1:+2	45%	45%	40%	40%
U.S. TREASURY BOND (17 - CME) vs SOFR 3 MONTH (SR3 - CME) TIER 03						
Spread Credit Rate	Decrease	+1:-8	60%	60%	50%	50%
U.S. TREASURY BOND (17 - CME) vs SOFR 3 MOTNH (SR3 - CME) TIER 04						
Spread Credit Rate	Decrease	+1:-8	60%	60%	50%	50%
U.S. TREASURY BOND (17 - CME) vs SOFR 3 MOTNH (SR3 - CME) TIER 05						
Spread Credit Rate	Decrease	+1:-8	60%	60%	50%	50%
U.S. TREASURY BOND (17 - CME) vs SOFR 3 MOTNH (SR3 - CME) TIER 06						
Spread Credit Rate	Decrease	+1:-8	60%	60%	50%	50%
U.S. TREASURY BOND (17 - CME) vs SOFR 3 MOTNH (SR3 - CME) TIER 07						
Spread Credit Rate	Decrease	+1:-8	60%	60%	50%	50%
ULTRA 10-YEAR U.S. TREASURY NOTE FUTURES (TN - CME) vs 2YR INTEREST RATE SWAP FUTURE ERIS Tier 3						
Spread Credit Rate	Decrease	+5:-1	40%	40%	25%	25%
ULTRA 10-YEAR U.S. TREASURY NOTE FUTURES (TN - CME) vs 2YR INTEREST RATE SWAP FUTURE ERIS Tier 4						
Spread Credit Rate	Decrease	+1:-5	40%	40%	25%	25%
ULTRA 10-YEAR U.S. TREASURY NOTE FUTURES (TN - CME) vs 2YR INTEREST RATE SWAP FUTURE ERIS Tier 5						
Spread Credit Rate	Decrease	+5:-1	65%	65%	45%	45%
ULTRA 10-YEAR U.S. TREASURY NOTE FUTURES (TN - CME) vs 5YR INTEREST RATE SWAP FUTURE ERIS Contracts 21+ (LIW - CME)						
Spread Credit Rate	Decrease	+5:-2	65%	65%	55%	55%
ULTRA 10-YEAR U.S. TREASURY NOTE FUTURES (TN - CME) vs 5YR INTEREST RATE SWAP FUTURE ERIS Tier 10 (LIW - CME)						
Spread Credit Rate	Decrease	+5:-2	65%	65%	55%	55%
ULTRA 10-YEAR U.S. TREASURY NOTE FUTURES (TN - CME) vs 5YR INTEREST RATE SWAP FUTURE ERIS Tier 4 (LIW - CME)						
Spread Credit Rate	Decrease	+2:-5	40%	40%	0%	0%
ULTRA 10-YEAR U.S. TREASURY NOTE FUTURES (TN - CME) vs 5YR INTEREST RATE SWAP FUTURE ERIS Tier 5 (LIW - CME)						
Spread Credit Rate	Decrease	+5:-2	50%	50%	30%	30%
ULTRA 10-YEAR U.S. TREASURY NOTE FUTURES (TN - CME) vs 5YR INTEREST RATE SWAP FUTURE ERIS Tier 6 (LIW - CME)						
Spread Credit Rate	Decrease	+5:-2	65%	65%	35%	35%
ULTRA 10-YEAR U.S. TREASURY NOTE FUTURES (TN - CME) vs 5YR INTEREST RATE SWAP FUTURE ERIS Tier 7 (LIW - CME)						
Spread Credit Rate	Decrease	+5:-2	65%	65%	40%	40%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
ULTRA 10-YEAR U.S. TREASURY NOTE FUTURES (TN - CME) vs 5YR INTEREST RATE SWAP FUTURE ERIS Tier 8 (LIW - CME)						
Spread Credit Rate	Decrease	+5:-2	65%	65%	40%	40%
ULTRA 10-YEAR U.S. TREASURY NOTE FUTURES (TN - CME) vs 5YR INTEREST RATE SWAP FUTURE ERIS Tier 9 (LIW - CME)						
Spread Credit Rate	Decrease	+5:-2	65%	65%	55%	55%
ULTRA 10-YEAR U.S. TREASURY NOTE FUTURES (TN - CME) vs S&P 500 (SP - CME)						
Spread Credit Rate	Decrease	+20:+2	50%	50%	45%	45%
ULTRA 10-YEAR U.S. TREASURY NOTE FUTURES (TN - CME) vs SOFR 3 MONTH (SR3 - CME) Tier 4						
Spread Credit Rate	Decrease	+2:-9	65%	65%	50%	50%
ULTRA 10-YEAR U.S. TREASURY NOTE FUTURES (TN - CME) vs SOFR 3 MONTH (SR3 - CME) Tier 5						
Spread Credit Rate	Decrease	+2:-9	65%	65%	50%	50%
ULTRA 10-YEAR U.S. TREASURY NOTE FUTURES (TN - CME) vs SOFR 3 MONTH (SR3 - CME) Tier 6						
Spread Credit Rate	Decrease	+2:-9	70%	70%	55%	55%
ULTRA 10-YEAR U.S. TREASURY NOTE FUTURES (TN - CME) vs SOFR 3 MONTH (SR3 - CME) Tier 7						
Spread Credit Rate	Decrease	+2:-9	70%	70%	55%	55%
ULTRA 10-YEAR U.S. TREASURY NOTE FUTURES (TN - CME) vs SOFR 3 MONTH (SR3 - CME) Tier 8						
Spread Credit Rate	Decrease	+2:-9	70%	70%	55%	55%
ULTRA LONG TREASURY BOND (UBE - CME) vs FED FUNDS (41 - CME) Tier 2						
Spread Credit Rate	Decrease	+1:-8	35%	35%	30%	30%
ULTRA LONG TREASURY BOND (UBE - CME) vs FED FUNDS (41 - CME) Tier 3						
Spread Credit Rate	Decrease	+1:-8	40%	40%	35%	35%
ULTRA LONG TREASURY BOND (UBE - CME) vs FED FUNDS (41 - CME) Tier 4						
Spread Credit Rate	Decrease	+1:-8	40%	40%	35%	35%
ULTRA LONG TREASURY BOND (UBE - CME) vs FED FUNDS (41 - CME) Tier 5						
Spread Credit Rate	Decrease	+1:-8	45%	45%	35%	35%
ULTRA LONG TREASURY BOND (UBE - CME) vs S&P 500 (SP - CME)						
Spread Credit Rate	Decrease	+10:+1	50%	50%	40%	40%
ULTRA LONG TREASURY BOND (UBE - CME) vs SOFR 3 MONTH (SR3 - CME) TIER 04						
Spread Credit Rate	Decrease	+1:-14	50%	50%	40%	40%
ULTRA LONG TREASURY BOND (UBE - CME) vs SOFR 3 MONTH (SR3 - CME) TIER 05						
Spread Credit Rate	Decrease	+1:-14	55%	55%	40%	40%
ULTRA LONG TREASURY BOND (UBE - CME) vs SOFR 3 MONTH (SR3 - CME) TIER 06						
Spread Credit Rate	Decrease	+1:-14	55%	55%	40%	40%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
ULTRA LONG TREASURY BOND (UBE - CME) vs SOFR 3 MONTH (SR3 - CME) TIER 07						
Spread Credit Rate	Decrease	+1:-14	60%	60%	40%	40%
METALS - Inter-commodity Spread Rates						
EURO FX (EC - CME) vs GOLD FUTURES (CX-GC - CME)						
Spread Credit Rate	Decrease	+1:-2	40%	40%	20%	20%
GOLD FUTURES (CX-GC - CME) vs E-MINI DOW ($5) FUTURES (YM - CME)						
Spread Credit Rate	Decrease	+1:+1	30%	30%	0%	0%
GOLD FUTURES (CX-GC - CME) vs E-MINI NASDAQ-100 FUTURES (NQ - CME)						
Spread Credit Rate	Decrease	+1:+1	30%	30%	0%	0%
GOLD FUTURES (CX-GC - CME) vs E-MINI RUSSELL 2000 INDEX FUTURES (RTY - CME)						
Spread Credit Rate	Decrease	+1:+2	30%	30%	0%	0%
GOLD FUTURES (CX-GC - CME) vs E-MINI S&P MIDCAP 400 (ME - CME)						
Spread Credit Rate	Decrease	+1:+1	30%	30%	0%	0%
GOLD FUTURES (CX-GC - CME) vs JAPANESE YEN (JY - CME)						
Spread Credit Rate	Decrease	+1:-1	45%	45%	20%	20%
GOLD FUTURES (CX-GC - CME) vs S&P 500 (SP - CME)						
Spread Credit Rate	Decrease	+1:+1	30%	30%	0%	0%
GOLD FUTURES (CX-GC - CME) vs S&P 500 TOTAL RETURN INDEX FUTURES (TRF - CME)						
Spread Credit Rate	Decrease	+1:+1	30%	30%	0%	0%
GOLD FUTURES (CX-GC - CME) vs SWISS FRANC (SF - CME)						
Spread Credit Rate	Decrease	+1:-1	50%	50%	0%	0%
SILVER FUTURES (CX-SI - CME) vs JAPANESE YEN (JY - CME)						
Spread Credit Rate	Decrease	+2:-1	30%	30%	0%	0%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance

Inter-commodity Spread Rates

NGL/PETROCHEMICALS - Inter-commodity Spread Rates

ARGUS PROPANE (SAUDI ARAMCO) SWAP FUTURES (NY-9N - CME) vs GASOLINE EURO-BOB OXY (ARGUS) NWE BARGES SWAP FUTURES (NY-7H - CME)

Spread Credit Rate	Decrease	+1:-1	66%	66%	54%	54%

ARGUS PROPANE (SAUDI ARAMCO) SWAP FUTURES (NY-9N - CME) vs PREMIUM UNLEADED GASOLINE 10 PPM (PLATTS) FOB MED SWAP FUTURES (NY-3G - CME)

Spread Credit Rate	Decrease	+1:-1	62%	62%	50%	50%

ARGUS PROPANE (SAUDI ARAMCO) SWAP FUTURES (NY-9N - CME) vs RBOB GASOLINE FUTURES (NY-RB - CME)

Spread Credit Rate	Decrease	+1:-12	60%	60%	55%	55%

ARGUS PROPANE (SAUDI ARAMCO) SWAP FUTURES (NY-9N - CME) vs SINGAPORE MOGAS 92 UNLEADED (PLATTS) SWAP FUTURES (NY-1N - CME)

Spread Credit Rate	Decrease	+1:-12	65%	65%	54%	54%

ARGUS PROPANE FAR EAST INDEX SWAP FUTURES (NY-7E - CME) vs BRENT CRUDE OIL PENULTIMATE FINANCIAL FUTURES (NY-BB - CME)

Spread Credit Rate	Decrease	+1:-12	70%	70%	64%	64%

ARGUS PROPANE FAR EAST INDEX SWAP FUTURES (NY-7E - CME) vs GASOLINE EURO-BOB OXY (ARGUS) NWE BARGES SWAP FUTURES (NY-7H - CME)

Spread Credit Rate	Decrease	+1:-1	54%	54%	45%	45%

ARGUS PROPANE FAR EAST INDEX SWAP FUTURES (NY-7E - CME) vs PREMIUM UNLEADED GASOLINE 10 PPM (PLATTS) FOB MED SWAP FUTURES (NY-3G - CME)

Spread Credit Rate	Decrease	+1:-1	60%	60%	45%	45%

ARGUS PROPANE FAR EAST INDEX SWAP FUTURES (NY-7E - CME) vs SINGAPORE MOGAS 92 UNLEADED (PLATTS) SWAP FUTURES (NY-1N - CME)

Spread Credit Rate	Decrease	+1:-12	60%	60%	50%	50%

BRENT CRUDE OIL PENULTIMATE FINANCIAL FUTURES (NY-BB - CME) vs PROPANE NON-LDH MONT BELVIEU (OPIS) SWAP FUTURES (NY-1R - CME)

Spread Credit Rate	Decrease	+1:-1	60%	60%	50%	50%

CONWAY NORMAL BUTANE (OPIS) SWAP FUTURES (NY-8M - CME) vs SINGAPORE MOGAS 92 UNLEADED (PLATTS) SWAP FUTURES (NY-1N - CME)

Spread Credit Rate	Decrease	+1:-1	44%	44%	33%	33%

CONWAY PROPANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-8K) vs. SINGAPORE MOGAS 92 UNLEADED (PLATTS) SWAP FUTURES (NY-1N)

Spread Credit Rate	Decrease	+1:-1	47%	47%	25%	25%

EUROPEAN NAPHTHA (PLATTS) CALENDAR SWAP FUTURES (NY-UN) vs. CONWAY PROPANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-8K)

Spread Credit Rate	Decrease	+1:-9	56%	56%	34%	34%

EUROPEAN NAPHTHA (PLATTS) CALENDAR SWAP FUTURES (NY-UN) vs. MONT BELVIEU NATURAL GASOLINE 5 DECIMALS (OPIS) SWAP FUTURES (NY-7Q)

Spread Credit Rate	Decrease	+1:-9	83%	83%	75%	75%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
EUROPEAN NAPHTHA (PLATTS) CALENDAR SWAP FUTURES (NY-UN) vs. MONT BELVIEU NORMAL BUTANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-D0)						
Spread Credit Rate	Decrease	+1:-9	58%	58%	46%	46%
EUROPEAN PROPANE CIF ARA (ARGUS) SWAP FUTURES (NY-PS - CME) vs GASOLINE EURO-BOB OXY (ARGUS) NWE BARGES SWAP FUTURES (NY-7H - CME)						
Spread Credit Rate	Decrease	+1:-1	63%	63%	50%	50%
EUROPEAN PROPANE CIF ARA (ARGUS) SWAP FUTURES (NY-PS - CME) vs PREMIUM UNLEADED GASOLINE 10 PPM (PLATTS) FOB MED SWAP FUTURES (NY-3G - CME)						
Spread Credit Rate	Decrease	+1:-1	62%	62%	50%	50%
EUROPEAN PROPANE CIF ARA (ARGUS) SWAP FUTURES (NY-PS) vs. SINGAPORE MOGAS 92 UNLEADED (PLATTS) SWAP FUTURES (NY-1N)						
Spread Credit Rate	Decrease	+1:-12	65%	65%	47%	47%
GASOLINE EURO-BOB OXY (ARGUS) NWE BARGES SWAP FUTURES (NY-7H) vs. CONWAY PROPANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-8K)						
Spread Credit Rate	Decrease	+3:-25	46%	46%	25%	25%
GASOLINE EURO-BOB OXY (ARGUS) NWE BARGES SWAP FUTURES (NY-7H) vs. MONT BELVIEU NATURAL GASOLINE 5 DECIMALS (OPIS) SWAP FUTURES (NY-7Q)						
Spread Credit Rate	Decrease	+3:-25	79%	79%	73%	73%
GASOLINE EURO-BOB OXY (ARGUS) NWE BARGES SWAP FUTURES (NY-7H) vs. MONT BELVIEU NORMAL BUTANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-D0)						
Spread Credit Rate	Decrease	+3:-25	48%	48%	25%	25%
JAPAN C&F NAPHTHA (PLATTS) SWAP FUTURES (NY-JA - CME) vs CONWAY PROPANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-8K - CME)						
Spread Credit Rate	Decrease	+2:-15	40%	40%	30%	30%
JAPAN C&F NAPHTHA (PLATTS) SWAP FUTURES (NY-JA) vs. MONT BELVIEU LDH PROPANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-B0)						
Spread Credit Rate	Decrease	+2:-15	55%	55%	36%	36%
MONT BELVIEU ISO-BUTANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-8I) vs. BRENT FINANCIAL FUTURES (NY-BB)						
Spread Credit Rate	Decrease	+1:-1	60%	60%	37%	37%
Spread Credit Rate	Decrease	+1:-1	60%	60%	37%	37%
MONT BELVIEU ISO-BUTANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-8I) vs. GASOLINE EURO-BOB OXY (ARGUS) NWE BARGES SWAP FUTURES (NY-7H)						
Spread Credit Rate	Decrease	+25:-3	50%	50%	25%	25%
MONT BELVIEU ISO-BUTANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-8I) vs. SINGAPORE MOGAS 92 UNLEADED (PLATTS) SWAP FUTURES (NY-1N)						
Spread Credit Rate	Decrease	+1:-1	50%	50%	37%	37%
MONT BELVIEU LDH PROPANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-B0) vs. BRENT FINANCIAL FUTURES (NY-BB)						
Spread Credit Rate	Decrease	+1:-1	56%	56%	50%	50%
Spread Credit Rate	Decrease	+1:-1	56%	56%	50%	50%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
MONT BELVIEU NORMAL BUTANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-D0 - CME) vs PREMIUM UNLEADED GASOLINE 10 PPM (PLATTS) FOB MED SWAP FUTURES (NY-3G - CME)						
Spread Credit Rate	Decrease	+15:-2	55%	55%	45%	45%
MONT BELVIEU NORMAL BUTANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-D0 - CME) vs RBOB GASOLINE FUTURES (NY-RB, RL, RT)						
Spread Credit Rate	Decrease	+1:-1	50%	50%	40%	40%
MONT BELVIEU NORMAL BUTANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-D0) vs. SINGAPORE MOGAS 92 UNLEADED (PLATTS) SWAP FUTURES (NY-1N)						
Spread Credit Rate	Decrease	+1:-1	60%	60%	45%	45%
MONT BELVIEU NORMAL BUTANE LDH (OPIS) SWAP FUTURES (NY-MNB - CME) vs RBOB GASOLINE FUTURES (NY-RB, RL, RT)						
Spread Credit Rate	Decrease	+1:-1	51%	51%	50%	50%
MONT BELVIEU NORMAL BUTANE LDH (OPIS) SWAP FUTURES (NY-MNB) vs. GASOLINE EURO-BOB OXY (ARGUS) NWE BARGES SWAP FUTURES (NY-7H)						
Spread Credit Rate	Decrease	+25:-3	40%	40%	20%	20%
MONT BELVIEU NORMAL BUTANE LDH (OPIS) SWAP FUTURES (NY-MNB) vs. SINGAPORE MOGAS 92 UNLEADED (PLATTS) SWAP FUTURES (NY-1N)						
Spread Credit Rate	Decrease	+1:-1	54%	54%	38%	38%
MONT BELVIEU PHYSICAL LDH PROPANE (OPIS) (NYM-3N - CME) vs NY HARBOR RBOB (BLENDSTOCK) GAS (NYM-RB, RL, RT)						
Spread Credit Rate	Decrease	+1:-1	30%	30%	0%	0%
NEW YORK HARBOR NO. 2 HEATING OIL FUTURES (NY-HO - CME) vs MONT BELVIEU LDH ISO-BUTANE (OPIS) SWAP FUTURES (NY-MBL - CME)						
Spread Credit Rate	Decrease	+1:-1	40%	40%	30%	30%
NEW YORK HARBOR NO. 2 HEATING OIL FUTURES (NY-HO, MP, BH) vs CONWAY PROPANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-8K - CME)						
Spread Credit Rate	Decrease	+1:-1	50%	50%	40%	40%
NEW YORK HARBOR NO. 2 HEATING OIL FUTURES (NY-HO, MP, BH) vs MONT BELVIEU ISO-BUTANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-8I - CME)						
Spread Credit Rate	Decrease	+1:-1	45%	45%	35%	35%
NEW YORK HARBOR NO. 2 HEATING OIL FUTURES (NY-HO, MP, BH) vs MONT BELVIEU LDH PROPANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-B0 - CME)						
Spread Credit Rate	Decrease	+1:-1	50%	50%	45%	45%
PREMIUM UNLEADED GASOLINE 10 PPM (PLATTS) FOB MED SWAP FUTURES (NY-3G - CME) vs CONWAY NORMAL BUTANE (OPIS) SWAP FUTURES (NY-8M - CME)						
Spread Credit Rate	Decrease	+2:-15	35%	35%	28%	28%
PREMIUM UNLEADED GASOLINE 10 PPM (PLATTS) FOB MED SWAP FUTURES (NY-3G - CME) vs CONWAY PROPANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-8K - CME)						
Spread Credit Rate	Decrease	+2:-15	40%	40%	30%	30%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
PREMIUM UNLEADED GASOLINE 10 PPM (PLATTS) FOB MED SWAP FUTURES (NY-3G - CME) vs MONT BELVIEU ISO-BUTANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-8I - CME)						
Spread Credit Rate	Decrease	+2:-15	45%	45%	30%	30%
PREMIUM UNLEADED GASOLINE 10 PPM (PLATTS) FOB MED SWAP FUTURES (NY-3G - CME) vs MONT BELVIEU LDH PROPANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-B0 - CME)						
Spread Credit Rate	Decrease	+2:-15	45%	45%	30%	30%
PREMIUM UNLEADED GASOLINE 10 PPM (PLATTS) FOB MED SWAP FUTURES (NY-3G - CME) vs MONT BELVIEU NATURAL GASOLINE 5 DECIMALS (OPIS) SWAP FUTURES (NY-7Q - CME)						
Spread Credit Rate	Decrease	+2:-15	70%	70%	60%	60%
PREMIUM UNLEADED GASOLINE 10 PPM (PLATTS) FOB MED SWAP FUTURES (NY-3G - CME) vs MONT BELVIEU NORMAL BUTANE LDH (OPIS) SWAP FUTURES (NY-MNB - CME)						
Spread Credit Rate	Decrease	+2:-15	50%	50%	35%	35%
PREMIUM UNLEADED GASOLINE 10 PPM (PLATTS) FOB MED SWAP FUTURES (NY-3G - CME) vs PROPANE NON-LDH MONT BELVIEU (OPIS) SWAP FUTURES (NY-1R - CME)						
Spread Credit Rate	Decrease	+3:-25	54%	54%	35%	35%
PROPANE NON-LDH MONT BELVIEU (OPIS) SWAP FUTURES (NY-1R - CME) vs JAPAN C&F NAPHTHA (PLATTS) SWAP FUTURES (NY-JA - CME)						
Spread Credit Rate	Decrease	+15:-2	50%	50%	42%	42%
PROPANE NON-LDH MONT BELVIEU (OPIS) SWAP FUTURES (NY-1R - CME) vs SINGAPORE MOGAS 92 UNLEADED (PLATTS) SWAP FUTURES (NY-1N - CME)						
Spread Credit Rate	Decrease	+1:-1	50%	50%	40%	40%
RBOB GASOLINE FUTURES (NY-RB - CME) vs MONT BELVIEU LDH ISO-BUTANE (OPIS) SWAP FUTURES (NY-MBL - CME)						
Spread Credit Rate	Decrease	+1:-1	40%	40%	35%	35%
RBOB GASOLINE FUTURES (NY-RB, RL, RT) vs CONWAY PROPANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-8K - CME)						
Spread Credit Rate	Decrease	+1:-1	40%	40%	35%	35%
SINGAPORE MOGAS 92 UNLEADED (PLATTS) SWAP FUTURES (NY-1N - CME) vs MONT BELVIEU LDH PROPANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-B0 - CME)						
Spread Credit Rate	Decrease	+1:-1	52%	52%	35%	35%
SINGAPORE MOGAS 92 UNLEADED (PLATTS) SWAP FUTURES (NY-1N - CME) vs MONT BELVIEU NATURAL GASOLINE 5 DECIMALS (OPIS) SWAP FUTURES (NY-7Q - CME)						
Spread Credit Rate	Decrease	+1:-1	80%	80%	74%	74%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
REFINED PRODUCTS - Inter-commodity Spread Rates						
(NY-HCL - CME) vs (NY-1N - CME)						
Spread Credit Rate	Decrease	+1:-1	80%	80%	73%	73%
(NY-HCL - CME) vs (NY-HO - CME)						
Spread Credit Rate	Decrease	+1:-1	80%	80%	76%	76%
(NY-HCL - CME) vs (NY-MF - CME)						
Spread Credit Rate	Decrease	+1:-1	67%	67%	60%	60%
Spread Credit Rate	Decrease	+1:-1	74%	74%	67%	67%
(NY-HCL - CME) vs (NY-RB - CME)						
Spread Credit Rate	Decrease	+1:-1	75%	75%	55%	55%
(NY-R5F - CME) vs (NY-CL - CME)						
Spread Credit Rate	Decrease	+1:-1	60%	60%	55%	55%
(NY-RB - CME) vs (NY-HCL - CME)						
Spread Credit Rate	Decrease	+1:-1	75%	75%	55%	55%
1% FUEL OIL (PLATTS) CARGOES CIF MED SWAP FUTURES (NY-SE - CME) vs GASOLINE EURO-BOB OXY (ARGUS) NWE BARGES SWAP FUTURES (NY-7H - CME)						
Spread Credit Rate	Decrease	+1:-1	60%	60%	45%	45%
ARGUS PROPANE (SAUDI ARAMCO) SWAP FUTURES (NY-9N - CME) vs GASOLINE EURO-BOB OXY (ARGUS) NWE BARGES SWAP FUTURES (NY-7H - CME)						
Spread Credit Rate	Decrease	+1:-1	66%	66%	54%	54%
ARGUS PROPANE (SAUDI ARAMCO) SWAP FUTURES (NY-9N - CME) vs PREMIUM UNLEADED GASOLINE 10 PPM (PLATTS) FOB MED SWAP FUTURES (NY-3G - CME)						
Spread Credit Rate	Decrease	+1:-1	62%	62%	50%	50%
ARGUS PROPANE (SAUDI ARAMCO) SWAP FUTURES (NY-9N - CME) vs RBOB GASOLINE FUTURES (NY-RB - CME)						
Spread Credit Rate	Decrease	+1:-12	60%	60%	55%	55%
ARGUS PROPANE (SAUDI ARAMCO) SWAP FUTURES (NY-9N - CME) vs SINGAPORE MOGAS 92 UNLEADED (PLATTS) SWAP FUTURES (NY-1N - CME)						
Spread Credit Rate	Decrease	+1:-12	65%	65%	54%	54%
ARGUS PROPANE FAR EAST INDEX SWAP FUTURES (NY-7E - CME) vs GASOLINE EURO-BOB OXY (ARGUS) NWE BARGES SWAP FUTURES (NY-7H - CME)						
Spread Credit Rate	Decrease	+1:-1	54%	54%	45%	45%
ARGUS PROPANE FAR EAST INDEX SWAP FUTURES (NY-7E - CME) vs PREMIUM UNLEADED GASOLINE 10 PPM (PLATTS) FOB MED SWAP FUTURES (NY-3G - CME)						
Spread Credit Rate	Decrease	+1:-1	60%	60%	45%	45%
ARGUS PROPANE FAR EAST INDEX SWAP FUTURES (NY-7E - CME) vs SINGAPORE MOGAS 92 UNLEADED (PLATTS) SWAP FUTURES (NY-1N - CME)						
Spread Credit Rate	Decrease	+1:-12	60%	60%	50%	50%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
BRENT CRUDE OIL PENULTIMATE FINANCIAL FUTURES (NY-BB - CME) vs GULF COAST JET FUEL (PLATTS) CALENDAR SWAP FUTURES (NY-GE - CME)						
Spread Credit Rate	Decrease	+1:-1	80%	80%	74%	74%
CHICAGO UNLEADED GASOLINE (PLATTS) SWAP FUTURES (NY-2C - CME) vs RBOB GASOLINE FUTURES (NY-RB, RL, RT)						
Spread Credit Rate	Decrease	+1:-1	51%	51%	50%	50%
CONWAY NORMAL BUTANE (OPIS) SWAP FUTURES (NY-8M - CME) vs SINGAPORE MOGAS 92 UNLEADED (PLATTS) SWAP FUTURES (NY-1N - CME)						
Spread Credit Rate	Decrease	+1:-1	44%	44%	33%	33%
CONWAY PROPANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-8K) vs. SINGAPORE MOGAS 92 UNLEADED (PLATTS) SWAP FUTURES (NY-1N)						
Spread Credit Rate	Decrease	+1:-1	47%	47%	25%	25%
DATED BRENT (PLATTS) CALENDAR SWAP FUTURES (NY-UB - CME) vs RBOB GASOLINE FUTURES (NY-RB - CME)						
Spread Credit Rate	Decrease	+1:-1	60%	60%	50%	50%
DUBAI CRUDE OIL (PLATTS) CALENDAR SWAP FUTURES (NY-DC - CME) vs JAPAN C&F NAPHTHA (PLATTS) SWAP FUTURES (NY-JA - CME)						
Spread Credit Rate	Decrease	+9:-1	81%	81%	76%	76%
DUBAI CRUDE OIL (PLATTS) FUTURES (NY-DCD - CME) vs RBOB GASOLINE FUTURES (NY-RB - CME)						
Spread Credit Rate	Decrease	+1:-1	70%	70%	55%	55%
DUBAI CRUDE OIL CALENDAR SWAP (NYM-DC - CME) vs JAPAN C&F NAPHTHA (PLATTS) SWAP (NYM-JA - CME)						
Spread Credit Rate	Decrease	+9:-1	81%	81%	76%	76%
DUBAI CRUDE OIL CALENDAR SWAP (NYM-DC - CME) vs NY HARBOR RBOB GASOLINE (NYM-RB, RL, RT)						
Spread Credit Rate	Decrease	+1:-1	70%	70%	55%	55%
EIA FLAT TAX ON-HIGHWAY DIESEL SWAP FUTURES (NY-A5 - CME) vs RBOB GASOLINE FUTURES (NY-RB - CME)						
Spread Credit Rate	Decrease	+1:-1	65%	65%	60%	60%
Spread Credit Rate	Decrease	+1:-1	76%	76%	65%	65%
EUROPEAN 3.5% FUEL OIL (PLATTS) BARGES FOB RDAM CALENDAR SWAP FUTURES (NY-UV - CME) vs EUROPEAN NAPHTHA (PLATTS) CALENDAR SWAP FUTURES (NY-UN - CME)						
Spread Credit Rate	Decrease	+1:-1	68%	68%	64%	64%
EUROPEAN 3.5% FUEL OIL ROTTERDAM CALENDAR SWAP (NYM-UV - CME) vs EUROPEAN SINGAPORE FUEL OIL 180CST CALENDAR SWAP (NYM-UA - CME)						
Spread Credit Rate	Decrease	+1:-1	86%	86%	84%	84%
EUROPEAN FOB RDAM MARINE FUEL 0.5% BARGES (PLATTS) FUTURES (NY-R5F - CME) vs BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME)						
Spread Credit Rate	Decrease	+3:-19	60%	60%	55%	55%
EUROPEAN GASOIL 10 PPM (PLATTS) BARGES FOB RDAM SWAP FUTURES (NY-GT - CME) vs RBOB GASOLINE FUTURES (NY-RB - CME)						
Spread Credit Rate	Decrease	+2:-15	55%	55%	50%	50%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
EUROPEAN JET KEROSENE (PLATTS) CARGOES CIF NWE CALENDAR SWAP FUTURES (NY-UJ - CME) vs RBOB GASOLINE FUTURES (NY-RB - CME)						
Spread Credit Rate	Decrease	+2:-15	50%	50%	0%	0%
EUROPEAN NAPHTHA (PLATTS) CALENDAR SWAP FUTURES (NY-UN - CME) vs DUBAI CRUDE OIL (PLATTS) CALENDAR SWAP FUTURES (NY-DC - CME)						
Spread Credit Rate	Decrease	+1:-9	85%	85%	79%	79%
EUROPEAN NAPHTHA (PLATTS) CALENDAR SWAP FUTURES (NY-UN - CME) vs OMAN CRUDE OIL (NY-OQ - CME)						
Spread Credit Rate	Decrease	+2:-15	82%	82%	78%	78%
EUROPEAN NAPHTHA (PLATTS) CALENDAR SWAP FUTURES (NY-UN) vs. CONWAY PROPANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-8K)						
Spread Credit Rate	Decrease	+1:-9	56%	56%	34%	34%
EUROPEAN NAPHTHA (PLATTS) CALENDAR SWAP FUTURES (NY-UN) vs. MONT BELVIEU NATURAL GASOLINE 5 DECIMALS (OPIS) SWAP FUTURES (NY-7Q)						
Spread Credit Rate	Decrease	+1:-9	83%	83%	75%	75%
EUROPEAN NAPHTHA (PLATTS) CALENDAR SWAP FUTURES (NY-UN) vs. MONT BELVIEU NORMAL BUTANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-D0)						
Spread Credit Rate	Decrease	+1:-9	58%	58%	46%	46%
EUROPEAN PROPANE CIF ARA (ARGUS) SWAP FUTURES (NY-PS - CME) vs GASOLINE EURO-BOB OXY (ARGUS) NWE BARGES SWAP FUTURES (NY-7H - CME)						
Spread Credit Rate	Decrease	+1:-1	63%	63%	50%	50%
EUROPEAN PROPANE CIF ARA (ARGUS) SWAP FUTURES (NY-PS - CME) vs PREMIUM UNLEADED GASOLINE 10 PPM (PLATTS) FOB MED SWAP FUTURES (NY-3G - CME)						
Spread Credit Rate	Decrease	+1:-1	62%	62%	50%	50%
EUROPEAN PROPANE CIF ARA (ARGUS) SWAP FUTURES (NY-PS) vs. SINGAPORE MOGAS 92 UNLEADED (PLATTS) SWAP FUTURES (NY-1N)						
Spread Credit Rate	Decrease	+1:-12	65%	65%	47%	47%
GASOIL 10PPM (PLATTS) CARGOES CIF NWE SWAP FUTURES (NY-TY - CME) vs RBOB GASOLINE FUTURES (NY-RB - CME)						
Spread Credit Rate	Decrease	+2:-15	55%	55%	20%	20%
GASOLINE EURO-BOB OXY (ARGUS) NWE BARGES SWAP FUTURES (NY-7H - CME) vs EUROPEAN 3.5% FUEL OIL (PLATTS) BARGES FOB RDAM CALENDAR SWAP FUTURES (NY-UV - CME)						
Spread Credit Rate	Decrease	+1:-1	60%	60%	46%	46%
GASOLINE EURO-BOB OXY (ARGUS) NWE BARGES SWAP FUTURES (NY-7H - CME) vs GULF COAST ULSD (PLATTS) SWAP FUTURES (NY-LY - CME)						
Spread Credit Rate	Decrease	+3:-25	80%	80%	70%	70%
GASOLINE EURO-BOB OXY (ARGUS) NWE BARGES SWAP FUTURES (NY-7H - CME) vs JAPAN C&F NAPHTHA (PLATTS) SWAP FUTURES (NY-JA - CME)						
Spread Credit Rate	Decrease	+1:-1	75%	75%	67%	67%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
GASOLINE EURO-BOB OXY (ARGUS) NWE BARGES SWAP FUTURES (NY-7H - CME) vs OMAN CRUDE OIL (NY-OQ - CME)						
Spread Credit Rate	Decrease	+2:-15	70%	70%	59%	59%
GASOLINE EURO-BOB OXY (ARGUS) NWE BARGES SWAP FUTURES (NY-7H - CME) vs SINGAPORE FUEL OIL 180 CST (PLATTS) CALENDAR SWAP FUTURES (NY-UA - CME)						
Spread Credit Rate	Decrease	+1:-1	57%	57%	49%	49%
GASOLINE EURO-BOB OXY (ARGUS) NWE BARGES SWAP FUTURES (NY-7H - CME) vs SINGAPORE GASOIL (PLATTS) SWAP FUTURES (NY-SG - CME)						
Spread Credit Rate	Decrease	+3:-25	66%	66%	60%	60%
GASOLINE EURO-BOB OXY (ARGUS) NWE BARGES SWAP FUTURES (NY-7H) vs. CONWAY PROPANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-8K)						
Spread Credit Rate	Decrease	+3:-25	46%	46%	25%	25%
GASOLINE EURO-BOB OXY (ARGUS) NWE BARGES SWAP FUTURES (NY-7H) vs. MONT BELVIEU NATURAL GASOLINE 5 DECIMALS (OPIS) SWAP FUTURES (NY-7Q)						
Spread Credit Rate	Decrease	+3:-25	79%	79%	73%	73%
GASOLINE EURO-BOB OXY (ARGUS) NWE BARGES SWAP FUTURES (NY-7H) vs. MONT BELVIEU NORMAL BUTANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-D0)						
Spread Credit Rate	Decrease	+3:-25	48%	48%	25%	25%
GROUP THREE UNLEADED GASOLINE (PLATTS) SWAP FUTURES (NY-A9 - CME) vs RBOB GASOLINE FUTURES (NY-RB, RL, RT)						
Spread Credit Rate	Decrease	+1:-1	85%	85%	75%	75%
GULF COAST JET FUEL (PLATTS) CALENDAR SWAP FUTURES (NY-GE - CME) vs BRENT CRUDE OIL PENULTIMATE FINANCIAL FUTURES (NY-BB - CME)						
Spread Credit Rate	Decrease	+1:-1	80%	80%	74%	74%
GULF COAST JET FUEL (PLATTS) CALENDAR SWAP FUTURES (NY-GE - CME) vs GASOLINE EURO-BOB OXY (ARGUS) NWE BARGES SWAP FUTURES (NY-7H - CME)						
Spread Credit Rate	Decrease	+25:-3	74%	74%	66%	66%
GULF COAST JET FUEL (PLATTS) CALENDAR SWAP FUTURES (NY-GE - CME) vs GULF COAST ULSD (PLATTS) SWAP FUTURES (NY-LY - CME)						
Spread Credit Rate	Decrease	+1:-1	89%	89%	83%	83%
GULF COAST JET FUEL (PLATTS) CALENDAR SWAP FUTURES (NY-GE - CME) vs NEW YORK HARBOR NO. 2 HEATING OIL FUTURES (NY-HO, MP, BH)						
Spread Credit Rate	Decrease	+1:-1	89%	89%	81%	81%
GULF COAST JET FUEL (PLATTS) CALENDAR SWAP FUTURES (NY-GE - CME) vs RBOB GASOLINE FUTURES (NY-RB, RL, RT)						
Spread Credit Rate	Decrease	+1:-1	74%	74%	65%	65%
GULF COAST NO. 6 FUEL OIL 3.0% (PLATTS) SWAP FUTURES (NY-MF - CME) vs GASOLINE EURO-BOB OXY (ARGUS) NWE BARGES SWAP FUTURES (NY-7H - CME)						
Spread Credit Rate	Decrease	+25:-3	65%	65%	55%	55%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
GULF COAST NO. 6 FUEL OIL 3.0% (PLATTS) SWAP FUTURES (NY-MF - CME) vs PREMIUM UNLEADED GASOLINE 10 PPM (PLATTS) FOB MED SWAP FUTURES (NY-3G - CME)						
Spread Credit Rate	Decrease	+25:-3	62%	62%	52%	52%
GULF COAST ULSD (PLATTS) SWAP FUTURES (NY-LY - CME) vs RBOB GASOLINE FUTURES (NY-RB - CME)						
Spread Credit Rate	Decrease	+1:-1	75%	75%	55%	55%
GULF COAST ULSD (PLATTS) SWAP FUTURES (NY-LY - CME) vs SINGAPORE MOGAS 92 UNLEADED (PLATTS) SWAP FUTURES (NY-1N - CME)						
Spread Credit Rate	Decrease	+1:-1	81%	81%	70%	70%
JAPAN C&F NAPHTHA (PLATTS) SWAP FUTURES (NY-JA - CME) vs CONWAY PROPANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-8K - CME)						
Spread Credit Rate	Decrease	+2:-15	40%	40%	30%	30%
JAPAN C&F NAPHTHA (PLATTS) SWAP FUTURES (NY-JA - CME) vs NEW YORK HARBOR NO. 2 HEATING OIL FUTURES (NY-HO - CME)						
Spread Credit Rate	Decrease	+1:-9	25%	25%	0%	0%
JAPAN C&F NAPHTHA (PLATTS) SWAP FUTURES (NY-JA - CME) vs RBOB GASOLINE FUTURES (NY-RB - CME)						
Spread Credit Rate	Decrease	+3:-25	80%	80%	75%	75%
JAPAN C&F NAPHTHA (PLATTS) SWAP FUTURES (NY-JA - CME) vs SINGAPORE FUEL OIL 180 CST (PLATTS) CALENDAR SWAP FUTURES (NY-UA - CME)						
Spread Credit Rate	Decrease	+1:-1	66%	66%	56%	56%
JAPAN C&F NAPHTHA (PLATTS) SWAP FUTURES (NY-JA - CME) vs SINGAPORE MOGAS 92 UNLEADED (PLATTS) SWAP FUTURES (NY-1N - CME)						
Spread Credit Rate	Decrease	+2:-15	80%	80%	73%	73%
JAPAN C&F NAPHTHA (PLATTS) SWAP FUTURES (NY-JA) vs. MONT BELVIEU LDH PROPANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-B0)						
Spread Credit Rate	Decrease	+2:-15	55%	55%	36%	36%
LIGHT SWEET CRUDE OIL FUTURES (NY-CL, CS, WS) vs JAPAN C&F NAPHTHA (Platts) SWAP FUTURES (NY-JA)						
Spread Credit Rate	Decrease	+9:-1	78%	78%	65%	65%
LIGHT, SWEET CRUDE OIL FUTURES (NYM-CL, CS, WS) vs NEW YORK HARBOR RESIDUAL FUEL 1.0% SULFUR (PLATTS) SWAP (NYM-MM - CME)						
Spread Credit Rate	Decrease	+1:-1	77%	77%	71%	71%
LLS (ARGUS) CALENDAR SWAP FUTURES (NY-XA - CME) vs RBOB GASOLINE FUTURES (NY-RB - CME)						
Spread Credit Rate	Decrease	+1:-1	58%	58%	30%	30%
LOS ANGELES CARB DIESEL (OPIS) OUTRIGHT SWAP FUTURES (NY-LX - CME) vs RBOB GASOLINE FUTURES (NY-RB - CME)						
Spread Credit Rate	Decrease	+1:-1	65%	65%	60%	60%
LOS ANGELES CARBOB GASOLINE (OPIS) SWAP FUTURES (NY-MH - CME) vs RBOB GASOLINE FUTURES (NY-RB, RL, RT)						
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
Inter-commodity Spread Rates						
LOS ANGELES JET (OPIS) OUTRIGHT SWAP FUTURES (NY-LL - CME) vs RBOB GASOLINE FUTURES (NY-RB - CME)						
Spread Credit Rate	Decrease	+1:-1	60%	60%	40%	40%
MONT BELVIEU ISO-BUTANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-8I) vs. GASOLINE EURO-BOB OXY (ARGUS) NWE BARGES SWAP FUTURES (NY-7H)						
Spread Credit Rate	Decrease	+25:-3	50%	50%	25%	25%
MONT BELVIEU ISO-BUTANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-8I) vs. SINGAPORE MOGAS 92 UNLEADED (PLATTS) SWAP FUTURES (NY-1N)						
Spread Credit Rate	Decrease	+1:-1	50%	50%	37%	37%
MONT BELVIEU NORMAL BUTANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-D0 - CME) vs PREMIUM UNLEADED GASOLINE 10 PPM (PLATTS) FOB MED SWAP FUTURES (NY-3G - CME)						
Spread Credit Rate	Decrease	+15:-2	55%	55%	45%	45%
MONT BELVIEU NORMAL BUTANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-D0 - CME) vs RBOB GASOLINE FUTURES (NY-RB, RL, RT)						
Spread Credit Rate	Decrease	+1:-1	50%	50%	40%	40%
MONT BELVIEU NORMAL BUTANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-D0) vs. SINGAPORE MOGAS 92 UNLEADED (PLATTS) SWAP FUTURES (NY-1N)						
Spread Credit Rate	Decrease	+1:-1	60%	60%	45%	45%
MONT BELVIEU NORMAL BUTANE LDH (OPIS) SWAP FUTURES (NY-MNB - CME) vs RBOB GASOLINE FUTURES (NY-RB, RL, RT)						
Spread Credit Rate	Decrease	+1:-1	51%	51%	50%	50%
MONT BELVIEU NORMAL BUTANE LDH (OPIS) SWAP FUTURES (NY-MNB) vs. GASOLINE EURO-BOB OXY (ARGUS) NWE BARGES SWAP FUTURES (NY-7H)						
Spread Credit Rate	Decrease	+25:-3	40%	40%	20%	20%
MONT BELVIEU NORMAL BUTANE LDH (OPIS) SWAP FUTURES (NY-MNB) vs. SINGAPORE MOGAS 92 UNLEADED (PLATTS) SWAP FUTURES (NY-1N)						
Spread Credit Rate	Decrease	+1:-1	54%	54%	38%	38%
MONT BELVIEU PHYSICAL LDH PROPANE (OPIS) (NYM-3N - CME) vs NY HARBOR RBOB (BLENDSTOCK) GAS (NYM-RB, RL, RT)						
Spread Credit Rate	Decrease	+1:-1	30%	30%	0%	0%
NEW YORK HARBOR NO. 2 HEATING OIL FUTURES (NY-HO - CME) vs E-MINI RUSSELL 2000 INDEX FUTURES (RTY - CME)						
Spread Credit Rate	Decrease	+1:-1	45%	45%	40%	40%
NEW YORK HARBOR NO. 2 HEATING OIL FUTURES (NY-HO - CME) vs E-MINI S&P MIDCAP 400 (ME - CME)						
Spread Credit Rate	Decrease	+2:-1	45%	45%	35%	35%
NEW YORK HARBOR NO. 2 HEATING OIL FUTURES (NY-HO - CME) vs MONT BELVIEU LDH ISO-BUTANE (OPIS) SWAP FUTURES (NY-MBL - CME)						
Spread Credit Rate	Decrease	+1:-1	40%	40%	30%	30%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
NEW YORK HARBOR NO. 2 HEATING OIL FUTURES (NY-HO - CME) vs OMAN CRUDE OIL (NY-OQ - CME)						
Spread Credit Rate	Decrease	+1:-1	75%	75%	70%	70%
Spread Credit Rate	Decrease	+1:-1	82%	82%	79%	79%
NEW YORK HARBOR NO. 2 HEATING OIL FUTURES (NY-HO, MP, BH) vs CONWAY PROPANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-8K - CME)						
Spread Credit Rate	Decrease	+1:-1	50%	50%	40%	40%
NEW YORK HARBOR NO. 2 HEATING OIL FUTURES (NY-HO, MP, BH) vs MONT BELVIEU ISO-BUTANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-8I - CME)						
Spread Credit Rate	Decrease	+1:-1	45%	45%	35%	35%
NEW YORK HARBOR NO. 2 HEATING OIL FUTURES (NY-HO, MP, BH) vs MONT BELVIEU LDH PROPANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-B0 - CME)						
Spread Credit Rate	Decrease	+1:-1	50%	50%	45%	45%
NEW YORK HARBOR RESIDUAL FUEL 1.0% (PLATTS) SWAP FUTURES (NY-MM - CME) vs GASOLINE EURO-BOB OXY (ARGUS) NWE BARGES SWAP FUTURES (NY-7H - CME)						
Spread Credit Rate	Decrease	+25:-3	67%	67%	62%	62%
NY 3.0% FUEL OIL (PLATTS) SWAP FUTURES (NY-H1 - CME) vs RBOB GASOLINE FUTURES (NY-RB - CME)						
Spread Credit Rate	Decrease	+1:-1	64%	64%	45%	45%
NY HARBOR RBOB (BLENDSTOCK) GAS (NYM-RB, RL, RT) vs NEW YORK HARBOR RESIDUAL FUEL 1.0% SULFUR (PLATTS) SWAP (NYM-MM - CME)						
Spread Credit Rate	Decrease	+1:-1	67%	67%	55%	55%
NY RBOB (PLATTS) CALENDAR SWAP FUTURES (NY-RY - CME) vs RBOB GASOLINE FUTURES (NY-RB, RL, RT)						
Spread Credit Rate	Decrease	+1:-1	70%	70%	40%	40%
NY-3G - PREMIUM UNLD 10P FOB MED SWP vs NY-LY - GULF COAST ULSD CALENDAR SWAP						
Spread Credit Rate	Decrease	+3:-25	74%	74%	65%	65%
OMAN CRUDE OIL (NY-OQ - CME) vs RBOB GASOLINE FUTURES (NY-RB - CME)						
Spread Credit Rate	Decrease	+1:-1	80%	80%	60%	60%
OMAN CRUDE OIL (NY-OQ - CME) vs SINGAPORE MOGAS 92 UNLEADED (PLATTS) SWAP FUTURES (NY-1N - CME)						
Spread Credit Rate	Decrease	+1:-1	80%	80%	73%	73%
PREMIUM UNLEADED GASOLINE 10 PPM (PLATTS) FOB MED SWAP FUTURES (NY-3G - CME) vs BRENT CRUDE OIL PENULTIMATE FINANCIAL FUTURES (NY-BB - CME)						
Spread Credit Rate	Decrease	+2:-15	75%	75%	57%	57%
PREMIUM UNLEADED GASOLINE 10 PPM (PLATTS) FOB MED SWAP FUTURES (NY-3G - CME) vs CONWAY NORMAL BUTANE (OPIS) SWAP FUTURES (NY-8M - CME)						
Spread Credit Rate	Decrease	+2:-15	35%	35%	28%	28%
PREMIUM UNLEADED GASOLINE 10 PPM (PLATTS) FOB MED SWAP FUTURES (NY-3G - CME) vs CONWAY PROPANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-8K - CME)						
Spread Credit Rate	Decrease	+2:-15	40%	40%	30%	30%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
PREMIUM UNLEADED GASOLINE 10 PPM (PLATTS) FOB MED SWAP FUTURES (NY-3G - CME) vs DUBAI CRUDE OIL (PLATTS) CALENDAR SWAP FUTURES (NY-DC - CME)						
Spread Credit Rate	Decrease	+3:-25	80%	80%	70%	70%
PREMIUM UNLEADED GASOLINE 10 PPM (PLATTS) FOB MED SWAP FUTURES (NY-3G - CME) vs EIA FLAT TAX ON-HIGHWAY DIESEL SWAP FUTURES (NY-A5 - CME)						
Spread Credit Rate	Decrease	+2:-15	70%	70%	60%	60%
PREMIUM UNLEADED GASOLINE 10 PPM (PLATTS) FOB MED SWAP FUTURES (NY-3G - CME) vs EUROPEAN 3.5% FUEL OIL (PLATTS) BARGES FOB RDAM CALENDAR SWAP FUTURES (NY-UV - CME)						
Spread Credit Rate	Decrease	+1:-1	65%	65%	48%	48%
PREMIUM UNLEADED GASOLINE 10 PPM (PLATTS) FOB MED SWAP FUTURES (NY-3G - CME) vs EUROPEAN 3.5% FUEL OIL (PLATTS) CARGOES FOB MED CALENDAR SWAP FUTURES (NY-UI - CME)						
Spread Credit Rate	Decrease	+1:-1	55%	55%	46%	46%
PREMIUM UNLEADED GASOLINE 10 PPM (PLATTS) FOB MED SWAP FUTURES (NY-3G - CME) vs EUROPEAN NAPHTHA (PLATTS) CALENDAR SWAP FUTURES (NY-UN - CME)						
Spread Credit Rate	Decrease	+1:-1	79%	79%	69%	69%
PREMIUM UNLEADED GASOLINE 10 PPM (PLATTS) FOB MED SWAP FUTURES (NY-3G - CME) vs GULF COAST JET FUEL (PLATTS) CALENDAR SWAP FUTURES (NY-GE - CME)						
Spread Credit Rate	Decrease	+2:-15	70%	70%	62%	62%
PREMIUM UNLEADED GASOLINE 10 PPM (PLATTS) FOB MED SWAP FUTURES (NY-3G - CME) vs JAPAN C&F NAPHTHA (PLATTS) SWAP FUTURES (NY-JA - CME)						
Spread Credit Rate	Decrease	+1:-1	80%	80%	74%	74%
PREMIUM UNLEADED GASOLINE 10 PPM (PLATTS) FOB MED SWAP FUTURES (NY-3G - CME) vs LIGHT SWEET CRUDE OIL FUTURES (NY-CL - CME)						
Spread Credit Rate	Decrease	+3:-25	78%	78%	62%	62%
PREMIUM UNLEADED GASOLINE 10 PPM (PLATTS) FOB MED SWAP FUTURES (NY-3G - CME) vs MONT BELVIEU ISO-BUTANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-8I - CME)						
Spread Credit Rate	Decrease	+2:-15	45%	45%	30%	30%
PREMIUM UNLEADED GASOLINE 10 PPM (PLATTS) FOB MED SWAP FUTURES (NY-3G - CME) vs MONT BELVIEU LDH PROPANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-B0 - CME)						
Spread Credit Rate	Decrease	+2:-15	45%	45%	30%	30%
PREMIUM UNLEADED GASOLINE 10 PPM (PLATTS) FOB MED SWAP FUTURES (NY-3G - CME) vs MONT BELVIEU NATURAL GASOLINE 5 DECIMALS (OPIS) SWAP FUTURES (NY-7Q - CME)						
Spread Credit Rate	Decrease	+2:-15	70%	70%	60%	60%
PREMIUM UNLEADED GASOLINE 10 PPM (PLATTS) FOB MED SWAP FUTURES (NY-3G - CME) vs MONT BELVIEU NORMAL BUTANE LDH (OPIS) SWAP FUTURES (NY-MNB - CME)						
Spread Credit Rate	Decrease	+2:-15	50%	50%	35%	35%
PREMIUM UNLEADED GASOLINE 10 PPM (PLATTS) FOB MED SWAP FUTURES (NY-3G - CME) vs NEW YORK HARBOR RESIDUAL FUEL 1.0% (PLATTS) SWAP FUTURES (NY-MM - CME)						
Spread Credit Rate	Decrease	+3:-25	68%	68%	62%	62%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
PREMIUM UNLEADED GASOLINE 10 PPM (PLATTS) FOB MED SWAP FUTURES (NY-3G - CME) vs OMAN CRUDE OIL (NY-OQ - CME)						
Spread Credit Rate	Decrease	+3:-25	73%	73%	65%	65%
PREMIUM UNLEADED GASOLINE 10 PPM (PLATTS) FOB MED SWAP FUTURES (NY-3G - CME) vs PROPANE NON-LDH MONT BELVIEU (OPIS) SWAP FUTURES (NY-1R - CME)						
Spread Credit Rate	Decrease	+3:-25	54%	54%	35%	35%
PREMIUM UNLEADED GASOLINE 10 PPM (PLATTS) FOB MED SWAP FUTURES (NY-3G - CME) vs SINGAPORE FUEL OIL 180 CST (PLATTS) CALENDAR SWAP FUTURES (NY-UA - CME)						
Spread Credit Rate	Decrease	+1:-1	50%	50%	35%	35%
PREMIUM UNLEADED GASOLINE 10 PPM (PLATTS) FOB MED SWAP FUTURES (NY-3G - CME) vs SINGAPORE FUEL OIL 380 CST (PLATTS) SWAP FUTURES (NY-SE - CME)						
Spread Credit Rate	Decrease	+1:-1	51%	51%	40%	40%
PROPANE NON-LDH MONT BELVIEU (OPIS) SWAP FUTURES (NY-1R - CME) vs JAPAN C&F NAPHTHA (PLATTS) SWAP FUTURES (NY-JA - CME)						
Spread Credit Rate	Decrease	+15:-2	50%	50%	42%	42%
PROPANE NON-LDH MONT BELVIEU (OPIS) SWAP FUTURES (NY-1R - CME) vs SINGAPORE MOGAS 92 UNLEADED (PLATTS) SWAP FUTURES (NY-1N - CME)						
Spread Credit Rate	Decrease	+1:-1	50%	50%	40%	40%
RBOB GASOLINE FUTURES (NY-RB - CME) vs 1% FUEL OIL (PLATTS) CARGOES CIF MED SWAP FUTURES (NY-1W - CME)						
Spread Credit Rate	Decrease	+19:-3	68%	68%	45%	45%
RBOB GASOLINE FUTURES (NY-RB - CME) vs 1% FUEL OIL (PLATTS) CARGOES CIF MED SWAP FUTURES (NY-UF - CME)						
Spread Credit Rate	Decrease	+15:-2	64%	64%	50%	50%
RBOB GASOLINE FUTURES (NY-RB - CME) vs E-MINI RUSSELL 2000 INDEX FUTURES (RTY - CME)						
Spread Credit Rate	Decrease	-1:+1	40%	40%	35%	35%
RBOB GASOLINE FUTURES (NY-RB - CME) vs E-MINI S&P MIDCAP 400 (ME - CME)						
Spread Credit Rate	Decrease	+2:-1	40%	40%	35%	35%
RBOB GASOLINE FUTURES (NY-RB - CME) vs EUROPEAN 1% FUEL OIL (PLATTS) BARGES FOB RDAM CALENDAR SWAP FUTURES (NY-UV - CME)						
Spread Credit Rate	Decrease	+19:-3	62%	62%	55%	55%
RBOB GASOLINE FUTURES (NY-RB - CME) vs EUROPEAN GASOIL BULLET SWAP FUTURES (NY-BG - CME)						
Spread Credit Rate	New	+2:-15			35%	35%
Spread Credit Rate	Decrease	+2:-15	60%	60%	50%	50%
RBOB GASOLINE FUTURES (NY-RB - CME) vs MONT BELVIEU LDH ISO-BUTANE (OPIS) SWAP FUTURES (NY-MBL - CME)						
Spread Credit Rate	Decrease	+1:-1	40%	40%	35%	35%
RBOB GASOLINE FUTURES (NY-RB, RL, RT) vs CONWAY PROPANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-8K - CME)						
Spread Credit Rate	Decrease	+1:-1	40%	40%	35%	35%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
RBOB GASOLINE FUTURES (NY-RB, RL, RT) vs EUROPEAN NAPHTHA (PLATTS) CALENDAR SWAP FUTURES (NY-UN - CME)						
Spread Credit Rate	Decrease	+9:-1	72%	72%	70%	70%
RBOB GASOLINE FUTURES (NY-RB, RL, RT) vs GULF COAST HEATING OIL (PLATTS) CALENDAR SWAP FUTURES (NY-GP - CME)						
Spread Credit Rate	Decrease	+1:-1	55%	55%	40%	40%
RBOB GASOLINE FUTURES (NY-RB, RL, RT) vs GULF COAST UNL 87 (ARGUS) CALENDAR SWAP FUTURES (NY-AW - CME)						
Spread Credit Rate	Decrease	+1:-1	45%	45%	40%	40%
RBOB GASOLINE FUTURES (NY-RB, RL, RT) vs RBOB GASOLINE BALMO SWAP FUTURES (NY-1D - CME)						
Spread Credit Rate	Decrease	+1:-1	75%	75%	70%	70%
SINGAPORE FUEL OIL 180 CST (PLATTS) CALENDAR SWAP FUTURES (NY-UA - CME) vs EUROPEAN NAPHTHA (PLATTS) CALENDAR SWAP FUTURES (NY-UN - CME)						
Spread Credit Rate	Decrease	+1:-1	62%	62%	50%	50%
SINGAPORE FUEL OIL 180 CST (PLATTS) CALENDAR SWAP FUTURES (NY-UA - CME) vs GULF COAST NO. 6 FUEL OIL 3.0% (PLATTS) SWAP FUTURES (NY-MF - CME)						
Spread Credit Rate	Decrease	+2:-15	80%	80%	76%	76%
SINGAPORE FUEL OIL 180 CST (PLATTS) CALENDAR SWAP FUTURES (NY-UA - CME) vs LIGHT SWEET CRUDE OIL FUTURES (NY-CL - CME)						
Spread Credit Rate	Decrease	+3:-19	74%	74%	55%	55%
SINGAPORE FUEL OIL 380 CST (PLATTS) SWAP FUTURES (NY-SE - CME) vs EUROPEAN NAPHTHA (PLATTS) CALENDAR SWAP FUTURES (NY-UN - CME)						
Spread Credit Rate	Decrease	+1:-1	56%	56%	50%	50%
SINGAPORE FUEL OIL 380CST (ARGUS) FUTURES (NY-ABF - CME) vs RBOB GASOLINE FUTURES (NY-RB - CME)						
Spread Credit Rate	Decrease	+30:-19	55%	55%	45%	45%
SINGAPORE GASOIL (PLATTS) SWAP FUTURES (NY-SG - CME) vs RBOB GASOLINE FUTURES (NY-RB - CME)						
Spread Credit Rate	Decrease	+1:-1	57%	57%	50%	50%
SINGAPORE MOGAS 92 UNLEADED (PLATTS) SWAP FUTURES (NY-1N - CME) vs 1% FUEL OIL (PLATTS) CARGOES CIF MED SWAP FUTURES (NY-SE - CME)						
Spread Credit Rate	Decrease	+19:-3	68%	68%	55%	55%
SINGAPORE MOGAS 92 UNLEADED (PLATTS) SWAP FUTURES (NY-1N - CME) vs DUBAI CRUDE OIL (PLATTS) CALENDAR SWAP FUTURES (NY-DC - CME)						
Spread Credit Rate	Decrease	+1:-1	83%	83%	77%	77%
SINGAPORE MOGAS 92 UNLEADED (PLATTS) SWAP FUTURES (NY-1N - CME) vs EUROPEAN 3.5% FUEL OIL (PLATTS) BARGES FOB RDAM CALENDAR SWAP FUTURES (NY-UV - CME)						
Spread Credit Rate	Decrease	+19:-3	70%	70%	64%	64%
Spread Credit Rate	Decrease	+19:-3	63%	63%	55%	55%
SINGAPORE MOGAS 92 UNLEADED (PLATTS) SWAP FUTURES (NY-1N - CME) vs GULF COAST NO. 6 FUEL OIL 3.0% (PLATTS) SWAP FUTURES (NY-MF - CME)						
Spread Credit Rate	Decrease	+1:-1	64%	64%	55%	55%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
SINGAPORE MOGAS 92 UNLEADED (PLATTS) SWAP FUTURES (NY-1N - CME) vs MONT BELVIEU LDH PROPANE 5 DECIMALS (OPIS) SWAP FUTURES (NY-B0 - CME)						
Spread Credit Rate	Decrease	+1:-1	52%	52%	35%	35%
SINGAPORE MOGAS 92 UNLEADED (PLATTS) SWAP FUTURES (NY-1N - CME) vs MONT BELVIEU NATURAL GASOLINE 5 DECIMALS (OPIS) SWAP FUTURES (NY-7Q - CME)						
Spread Credit Rate	Decrease	+1:-1	80%	80%	74%	74%
SINGAPORE MOGAS 92 UNLEADED (PLATTS) SWAP FUTURES (NY-1N - CME) vs SINGAPORE FUEL OIL 380 CST (PLATTS) SWAP FUTURES (NY-UA - CME)						
Spread Credit Rate	Decrease	+15:-2	60%	60%	45%	45%
SINGAPORE MOGAS 95 UNLEADED (PLATTS) SWAP FUTURES (NY-V0 - CME) vs RBOB GASOLINE FUTURES (NY-RB - CME)						
Spread Credit Rate	Decrease	+1:-1	81%	81%	80%	80%
SINGAPORE NAPHTHA (PLATTS) SWAP FUTURES (NY-SP - CME) vs RBOB GASOLINE FUTURES (NY-RB - CME)						
Spread Credit Rate	Decrease	+1:-1	75%	75%	70%	70%
USGC MARINE FUEL 0.5% (PLATTS) FUTURES (NY-H5F - CME) vs BRENT CRUDE OIL LAST DAY FINANCIAL FUTURES (NY-BZ - CME)						
Spread Credit Rate	Decrease	+1:-1	45%	45%	35%	35%
USGC MARINE FUEL 0.5% (PLATTS) FUTURES (NY-H5F - CME) vs DUBAI CRUDE OIL (PLATTS) CALENDAR SWAP FUTURES (NY-DC - CME)						
Spread Credit Rate	Decrease	+1:-1	75%	75%	71%	71%
USGC MARINE FUEL 0.5% (PLATTS) FUTURES (NY-H5F - CME) vs LIGHT SWEET CRUDE OIL FUTURES (NY-CL - CME)						
Spread Credit Rate	Decrease	+1:-1	45%	45%	35%	35%
USGC MARINE FUEL 0.5% (PLATTS) FUTURES (NY-H5F - CME) vs NEW YORK HARBOR NO. 2 HEATING OIL FUTURES (NY-HO - CME)						
Spread Credit Rate	Decrease	+1:-1	45%	45%	35%	35%

Rate Type	Tier Description	Change	Current Initial	Current Maintenance	New Initial	New Maintenance
Volatility Scan (volScan) Rate						
AGRICULTURE - Volatility Scan (volScan) Rate						
NONFAT DRY MILK (NF, NF) - volScan						
Clearing Member Rate	Month 5+	Increase		15.000%		19.000%