



16-053

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

FROM: CME Clearing

SUBJECT: Performance Bond Requirements

DATE: Thursday, January 28, 2016

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

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

and subscribe to the Performance Bond Rates Advisory Notice listserver.

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

The rates will be effective after the close of business on

Friday, January 29, 2016.

Current rates as of:

Thursday, January 28, 2016.

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.

The advisory includes changes to certain products' splitting methodology from Split to Modified Split. The specific products can be found in the last pages of the advisory.

Please refer to Advisory #12-259 for more detail regarding the Modified Split methodology.

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

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

CRUDE OIL SPREADS - Outright Rates

ARGUS LLS VS. WTI (ARG) TRD M (E5)

E5	Spec	Mnth 1	Decrease	USD	1,650	1,500	1,210	1,100
E5	Hedge/Member	Mnth 1	Decrease	USD	1,500	1,500	1,100	1,100
E5	Spec	Mnth 2	Decrease	USD	1,100	1,000	770	700
E5	Hedge/Member	Mnth 2	Decrease	USD	1,000	1,000	700	700
E5	Spec	Mnth 3+	Decrease	USD	825	750	660	600
E5	Hedge/Member	Mnth 3+	Decrease	USD	750	750	600	600

CANADIAN LIGHT SWEET OIL (CIL)

CIL	Spec	Mnths 1-2	Decrease	USD	1,430	1,300	1,210	1,100
CIL	Hedge/Member	Mnths 1-2	Decrease	USD	1,300	1,300	1,100	1,100
CIL	Spec	Mnths 3-6	Decrease	USD	1,265	1,150	1,100	1,000
CIL	Hedge/Member	Mnths 3-6	Decrease	USD	1,150	1,150	1,000	1,000
CIL	Spec	Mnths 7+	Decrease	USD	935	850	770	700
CIL	Hedge/Member	Mnths 7+	Decrease	USD	850	850	700	700

DATED TO FRONTLINE BRENT CLNDR FUT (FY)

FY	Spec	Mnth 1	Increase	USD	1,265	1,150	1,485	1,350
FY	Hedge/Member	Mnth 1	Increase	USD	1,150	1,150	1,350	1,350

WTI MIDLAND(ARGUS) VS WTI FINCL FUT (FF)

FF	Spec	Mnth1	Increase	USD	1,650	1,500	2,200	2,000
FF	Hedge/Member	Mnth1	Increase	USD	1,500	1,500	2,000	2,000
FF	Spec	Mnth 2	Decrease	USD	1,430	1,300	1,100	1,000
FF	Hedge/Member	Mnth 2	Decrease	USD	1,300	1,300	1,000	1,000
FF	Spec	Mnths 3+	Decrease	USD	770	700	660	600
FF	Hedge/Member	Mnths 3+	Decrease	USD	700	700	600	600

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
Outright Rates								
EQUITY INDEX - Outright Rates								
BTIC ON E-MINI S&P 500 FUTURES (EST)								
EST	Spec		Increase	USD	5,060	4,600	5,225	4,750
EST	Hedge/Member		Increase	USD	4,600	4,600	4,750	4,750
BTIC S&P 500 / GROWTH (SGT)								
SGT	Spec		Increase	USD	14,300	13,000	14,575	13,250
SGT	Hedge/Member		Increase	USD	13,000	13,000	13,250	13,250
BTIC S&P/ CITIGROUP VALUE FUTURE (SUT)								
SUT	Spec		Increase	USD	11,000	10,000	11,550	10,500
SUT	Hedge/Member		Increase	USD	10,000	10,000	10,500	10,500
E-MINI S&P 500 FUTURES (ES)								
ES	Spec		Increase	USD	5,060	4,600	5,225	4,750
ES	Hedge/Member		Increase	USD	4,600	4,600	4,750	4,750
E-MINI S&P 500 FUTURES MARKER (ESI)								
ESI	Spec		Increase	USD	5,060	4,600	5,225	4,750
ESI	Hedge/Member		Increase	USD	4,600	4,600	4,750	4,750
S&P 500 / GROWTH SYNT MARKER (TGT)								
TGT	Spec		Increase	USD	14,300	13,000	14,575	13,250
TGT	Hedge/Member		Increase	USD	13,000	13,000	13,250	13,250
S&P 500 ANNUAL DIVIDEND INDEX FUT (SDA)								
SDA	Spec	Mths 1-3	Increase	USD	248	225	303	275
SDA	Hedge/Member	Mths 1-3	Increase	USD	225	225	275	275
SDA	Spec	Mths 4+	Increase	USD	330	300	358	325
SDA	Hedge/Member	Mths 4+	Increase	USD	300	300	325	325
S&P 500 FUTURES (SP)								
SP	Spec		Increase	USD	25,300	23,000	26,125	23,750
SP	Hedge/Member		Increase	USD	23,000	23,000	23,750	23,750
S&P VALUE INDEX SYNT MARKER (TST)								
TST	Spec		Increase	USD	11,000	10,000	11,550	10,500
TST	Hedge/Member		Increase	USD	10,000	10,000	10,500	10,500
S&P/ CITIGROUP GROWTH INDEX FUTURES (SG)								
SG	Spec		Increase	USD	14,300	13,000	14,575	13,250
SG	Hedge/Member		Increase	USD	13,000	13,000	13,250	13,250

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
Outright Rates								
S&P/ CITIGROUP VALUE FUTURES (SU)								
SU	Spec		Increase	USD	11,000	10,000	11,550	10,500
SU	Hedge/Member		Increase	USD	10,000	10,000	10,500	10,500
ETHANOL - Outright Rates								
CHICAGO ETHANOL FUT (CU)								
CU	Spec	Mth 1	Decrease	USD	5,610	5,100	4,675	4,250
CU	Hedge/Member	Mth 1	Decrease	USD	5,100	5,100	4,250	4,250
CU	Spec	Mths 2	Decrease	USD	4,950	4,500	4,180	3,800
CU	Hedge/Member	Mths 2	Decrease	USD	4,500	4,500	3,800	3,800
CU	Spec	Mth 3-7	Decrease	USD	3,300	3,000	2,970	2,700
CU	Hedge/Member	Mth 3-7	Decrease	USD	3,000	3,000	2,700	2,700
CU	Spec	Mnth 8+	Decrease	USD	2,970	2,700	2,640	2,400
CU	Hedge/Member	Mnth 8+	Decrease	USD	2,700	2,700	2,400	2,400
ETHANOL FUTURES (EH)								
EH	Spec	Month 1	Decrease	USD	3,850	3,500	3,190	2,900
EH	Hedge/Member	Month 1	Decrease	USD	3,500	3,500	2,900	2,900
EH	Spec	Month 2	Decrease	USD	3,190	2,900	2,695	2,450
EH	Hedge/Member	Month 2	Decrease	USD	2,900	2,900	2,450	2,450
EH	Spec	Month 3+	Decrease	USD	2,310	2,100	2,090	1,900
EH	Hedge/Member	Month 3+	Decrease	USD	2,100	2,100	1,900	1,900

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

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

METALS - Outright Rates

ALUMINIUM EURO PREM METAL BULLETIN (AEP)

AEP	Spec	Mth 1	Decrease	USD	578	525	440	400
AEP	Hedge/Member	Mth 1	Decrease	USD	525	525	400	400
AEP	Spec	Mths 2-9	Decrease	USD	578	525	440	400
AEP	Hedge/Member	Mths 2-9	Decrease	USD	525	525	400	400
AEP	Spec	Mths 10+	Decrease	USD	578	525	440	400
AEP	Hedge/Member	Mths 10+	Decrease	USD	525	525	400	400

ALUMINUM JAPAN PREMIUM (PLATTS) FUT (MJP)

MJP	Spec	Mth 1	Decrease	USD	578	525	440	400
MJP	Hedge/Member	Mth 1	Decrease	USD	525	525	400	400
MJP	Spec	Mths 2-9	Decrease	USD	578	525	440	400
MJP	Hedge/Member	Mths 2-9	Decrease	USD	525	525	400	400
MJP	Spec	Mths 10+	Decrease	USD	578	525	440	400
MJP	Hedge/Member	Mths 10+	Decrease	USD	525	525	400	400

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
Outright Rates								
COMEX COPPER FUTURES (HG)								
HG	Spec	Mnth1	Decrease	USD	3,410	3,100	3,135	2,850
HG	Hedge/Member	Mnth1	Decrease	USD	3,100	3,100	2,850	2,850
HG	Spec	Mnth2	Decrease	USD	3,410	3,100	3,135	2,850
HG	Hedge/Member	Mnth2	Decrease	USD	3,100	3,100	2,850	2,850
HG	Spec	Mnth3	Decrease	USD	3,410	3,100	3,135	2,850
HG	Hedge/Member	Mnth3	Decrease	USD	3,100	3,100	2,850	2,850
HG	Spec	Mnth4	Decrease	USD	3,410	3,100	3,135	2,850
HG	Hedge/Member	Mnth4	Decrease	USD	3,100	3,100	2,850	2,850
HG	Spec	Mnth5	Decrease	USD	3,410	3,100	3,135	2,850
HG	Hedge/Member	Mnth5	Decrease	USD	3,100	3,100	2,850	2,850
HG	Spec	Mnth6	Decrease	USD	3,355	3,050	3,080	2,800
HG	Hedge/Member	Mnth6	Decrease	USD	3,050	3,050	2,800	2,800
HG	Spec	Mnth7	Decrease	USD	3,355	3,050	3,080	2,800
HG	Hedge/Member	Mnth7	Decrease	USD	3,050	3,050	2,800	2,800
HG	Spec	Mnth8	Decrease	USD	3,300	3,000	3,025	2,750
HG	Hedge/Member	Mnth8	Decrease	USD	3,000	3,000	2,750	2,750
HG	Spec	Mnth9	Decrease	USD	3,190	2,900	2,915	2,650
HG	Hedge/Member	Mnth9	Decrease	USD	2,900	2,900	2,650	2,650
HG	Spec	Mnth10	Decrease	USD	3,190	2,900	2,915	2,650
HG	Hedge/Member	Mnth10	Decrease	USD	2,900	2,900	2,650	2,650
HG	Spec	Mnth11	Decrease	USD	3,190	2,900	2,915	2,650
HG	Hedge/Member	Mnth11	Decrease	USD	2,900	2,900	2,650	2,650
HG	Spec	Mnth12	Decrease	USD	3,190	2,900	2,915	2,650
HG	Hedge/Member	Mnth12	Decrease	USD	2,900	2,900	2,650	2,650
HG	Spec	Mnth13	Decrease	USD	3,190	2,900	2,915	2,650
HG	Hedge/Member	Mnth13	Decrease	USD	2,900	2,900	2,650	2,650
HG	Spec	Mnth14	Decrease	USD	3,190	2,900	2,915	2,650
HG	Hedge/Member	Mnth14	Decrease	USD	2,900	2,900	2,650	2,650
HG	Spec	Mnth15	Decrease	USD	3,190	2,900	2,915	2,650
HG	Hedge/Member	Mnth15	Decrease	USD	2,900	2,900	2,650	2,650
HG	Spec	Mnth16	Decrease	USD	3,190	2,900	2,915	2,650
HG	Hedge/Member	Mnth16	Decrease	USD	2,900	2,900	2,650	2,650
HG	Spec	Mnth17	Decrease	USD	3,190	2,900	2,915	2,650
HG	Hedge/Member	Mnth17	Decrease	USD	2,900	2,900	2,650	2,650
HG	Spec	Mnth18	Decrease	USD	3,190	2,900	2,915	2,650
HG	Hedge/Member	Mnth18	Decrease	USD	2,900	2,900	2,650	2,650
HG	Spec	Mnth19	Decrease	USD	3,190	2,900	2,915	2,650
HG	Hedge/Member	Mnth19	Decrease	USD	2,900	2,900	2,650	2,650
HG	Spec	Mnth20	Decrease	USD	3,190	2,900	2,915	2,650

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
Outright Rates								
HG	Hedge/Member	Mnth20	Decrease	USD	2,900	2,900	2,650	2,650
HG	Spec	Mnth21	Decrease	USD	3,190	2,900	2,915	2,650
HG	Hedge/Member	Mnth21	Decrease	USD	2,900	2,900	2,650	2,650
HG	Spec	Mnth22	Decrease	USD	3,190	2,900	2,915	2,650
HG	Hedge/Member	Mnth22	Decrease	USD	2,900	2,900	2,650	2,650
HG	Spec	Mnth23	Decrease	USD	3,190	2,900	2,915	2,650
HG	Hedge/Member	Mnth23	Decrease	USD	2,900	2,900	2,650	2,650
HG	Spec	Mnth24	Decrease	USD	3,190	2,900	2,915	2,650
HG	Hedge/Member	Mnth24	Decrease	USD	2,900	2,900	2,650	2,650
HG	Spec	Mnth25	Decrease	USD	3,190	2,900	2,915	2,650
HG	Hedge/Member	Mnth25	Decrease	USD	2,900	2,900	2,650	2,650
HG	Spec	Mnth26	Decrease	USD	3,080	2,800	2,805	2,550
HG	Hedge/Member	Mnth26	Decrease	USD	2,800	2,800	2,550	2,550
HG	Spec	Mnth27	Decrease	USD	3,080	2,800	2,805	2,550
HG	Hedge/Member	Mnth27	Decrease	USD	2,800	2,800	2,550	2,550
HG	Spec	Mnth28	Decrease	USD	3,080	2,800	2,805	2,550
HG	Hedge/Member	Mnth28	Decrease	USD	2,800	2,800	2,550	2,550
HG	Spec	Mnth29	Decrease	USD	3,080	2,800	2,805	2,550
HG	Hedge/Member	Mnth29	Decrease	USD	2,800	2,800	2,550	2,550
HG	Spec	Mnth30	Decrease	USD	3,080	2,800	2,805	2,550
HG	Hedge/Member	Mnth30	Decrease	USD	2,800	2,800	2,550	2,550
HG	Spec	Mnth31	Decrease	USD	3,080	2,800	2,805	2,550
HG	Hedge/Member	Mnth31	Decrease	USD	2,800	2,800	2,550	2,550
HG	Spec	Mnth32	Decrease	USD	3,080	2,800	2,805	2,550
HG	Hedge/Member	Mnth32	Decrease	USD	2,800	2,800	2,550	2,550
HG	Spec	Mnth33	Decrease	USD	3,080	2,800	2,805	2,550
HG	Hedge/Member	Mnth33	Decrease	USD	2,800	2,800	2,550	2,550
HG	Spec	Mnth34	Decrease	USD	3,080	2,800	2,805	2,550
HG	Hedge/Member	Mnth34	Decrease	USD	2,800	2,800	2,550	2,550
HG	Spec	Mnth35	Decrease	USD	3,080	2,800	2,805	2,550
HG	Hedge/Member	Mnth35	Decrease	USD	2,800	2,800	2,550	2,550
HG	Spec	Mnth36	Decrease	USD	3,080	2,800	2,805	2,550
HG	Hedge/Member	Mnth36	Decrease	USD	2,800	2,800	2,550	2,550
HG	Spec	Mnth37	Decrease	USD	3,080	2,800	2,805	2,550
HG	Hedge/Member	Mnth37	Decrease	USD	2,800	2,800	2,550	2,550
HG	Spec	Mnth38	Decrease	USD	3,080	2,800	2,805	2,550
HG	Hedge/Member	Mnth38	Decrease	USD	2,800	2,800	2,550	2,550
HG	Spec	Mnth39+	Decrease	USD	3,080	2,800	2,805	2,550
HG	Hedge/Member	Mnth39+	Decrease	USD	2,800	2,800	2,550	2,550

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
Outright Rates								
COMEX COPPER SWAP FUTURES (HGS)								
HGS	Spec	Mnth1	Decrease	USD	3,410	3,100	3,135	2,850
HGS	Hedge/Member	Mnth1	Decrease	USD	3,100	3,100	2,850	2,850
HGS	Spec	Mnth2	Decrease	USD	3,410	3,100	3,135	2,850
HGS	Hedge/Member	Mnth2	Decrease	USD	3,100	3,100	2,850	2,850
HGS	Spec	Mnth3	Decrease	USD	3,410	3,100	3,135	2,850
HGS	Hedge/Member	Mnth3	Decrease	USD	3,100	3,100	2,850	2,850
HGS	Spec	Mnth4	Decrease	USD	3,410	3,100	3,135	2,850
HGS	Hedge/Member	Mnth4	Decrease	USD	3,100	3,100	2,850	2,850
HGS	Spec	Mnth5	Decrease	USD	3,410	3,100	3,135	2,850
HGS	Hedge/Member	Mnth5	Decrease	USD	3,100	3,100	2,850	2,850
HGS	Spec	Mnth6	Decrease	USD	3,355	3,050	3,080	2,800
HGS	Hedge/Member	Mnth6	Decrease	USD	3,050	3,050	2,800	2,800
HGS	Spec	Mnth7	Decrease	USD	3,355	3,050	3,080	2,800
HGS	Hedge/Member	Mnth7	Decrease	USD	3,050	3,050	2,800	2,800
HGS	Spec	Mnth8	Decrease	USD	3,300	3,000	3,025	2,750
HGS	Hedge/Member	Mnth8	Decrease	USD	3,000	3,000	2,750	2,750
HGS	Spec	Mnth9	Decrease	USD	3,190	2,900	2,915	2,650
HGS	Hedge/Member	Mnth9	Decrease	USD	2,900	2,900	2,650	2,650
HGS	Spec	Mnth10	Decrease	USD	3,190	2,900	2,915	2,650
HGS	Hedge/Member	Mnth10	Decrease	USD	2,900	2,900	2,650	2,650
HGS	Spec	Mnth11	Decrease	USD	3,190	2,900	2,915	2,650
HGS	Hedge/Member	Mnth11	Decrease	USD	2,900	2,900	2,650	2,650
HGS	Spec	Mnth12	Decrease	USD	3,190	2,900	2,915	2,650
HGS	Hedge/Member	Mnth12	Decrease	USD	2,900	2,900	2,650	2,650
HGS	Spec	Mnth13	Decrease	USD	3,190	2,900	2,915	2,650
HGS	Hedge/Member	Mnth13	Decrease	USD	2,900	2,900	2,650	2,650
HGS	Spec	Mnth14	Decrease	USD	3,190	2,900	2,915	2,650
HGS	Hedge/Member	Mnth14	Decrease	USD	2,900	2,900	2,650	2,650
HGS	Spec	Mnth15	Decrease	USD	3,190	2,900	2,915	2,650
HGS	Hedge/Member	Mnth15	Decrease	USD	2,900	2,900	2,650	2,650
HGS	Spec	Mnth16	Decrease	USD	3,190	2,900	2,915	2,650
HGS	Hedge/Member	Mnth16	Decrease	USD	2,900	2,900	2,650	2,650
HGS	Spec	Mnth17	Decrease	USD	3,190	2,900	2,915	2,650
HGS	Hedge/Member	Mnth17	Decrease	USD	2,900	2,900	2,650	2,650
HGS	Spec	Mnth18	Decrease	USD	3,190	2,900	2,915	2,650
HGS	Hedge/Member	Mnth18	Decrease	USD	2,900	2,900	2,650	2,650
HGS	Spec	Mnth19	Decrease	USD	3,190	2,900	2,915	2,650
HGS	Hedge/Member	Mnth19	Decrease	USD	2,900	2,900	2,650	2,650
HGS	Spec	Mnth20	Decrease	USD	3,190	2,900	2,915	2,650

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
Outright Rates								
HGS	Hedge/Member	Mnth20	Decrease	USD	2,900	2,900	2,650	2,650
HGS	Spec	Mnth21	Decrease	USD	3,190	2,900	2,915	2,650
HGS	Hedge/Member	Mnth21	Decrease	USD	2,900	2,900	2,650	2,650
HGS	Spec	Mnth22	Decrease	USD	3,190	2,900	2,915	2,650
HGS	Hedge/Member	Mnth22	Decrease	USD	2,900	2,900	2,650	2,650
HGS	Spec	Mnth23	Decrease	USD	3,190	2,900	2,915	2,650
HGS	Hedge/Member	Mnth23	Decrease	USD	2,900	2,900	2,650	2,650
HGS	Spec	Mnth24	Decrease	USD	3,190	2,900	2,915	2,650
HGS	Hedge/Member	Mnth24	Decrease	USD	2,900	2,900	2,650	2,650
HGS	Spec	Mnth25	Decrease	USD	3,190	2,900	2,915	2,650
HGS	Hedge/Member	Mnth25	Decrease	USD	2,900	2,900	2,650	2,650
HGS	Spec	Mnth26	Decrease	USD	3,080	2,800	2,805	2,550
HGS	Hedge/Member	Mnth26	Decrease	USD	2,800	2,800	2,550	2,550
HGS	Spec	Mnth27	Decrease	USD	3,080	2,800	2,805	2,550
HGS	Hedge/Member	Mnth27	Decrease	USD	2,800	2,800	2,550	2,550
HGS	Spec	Mnth28	Decrease	USD	3,080	2,800	2,805	2,550
HGS	Hedge/Member	Mnth28	Decrease	USD	2,800	2,800	2,550	2,550
HGS	Spec	Mnth29	Decrease	USD	3,080	2,800	2,805	2,550
HGS	Hedge/Member	Mnth29	Decrease	USD	2,800	2,800	2,550	2,550
HGS	Spec	Mnth30	Decrease	USD	3,080	2,800	2,805	2,550
HGS	Hedge/Member	Mnth30	Decrease	USD	2,800	2,800	2,550	2,550
HGS	Spec	Mnth31	Decrease	USD	3,080	2,800	2,805	2,550
HGS	Hedge/Member	Mnth31	Decrease	USD	2,800	2,800	2,550	2,550
HGS	Spec	Mnth32	Decrease	USD	3,080	2,800	2,805	2,550
HGS	Hedge/Member	Mnth32	Decrease	USD	2,800	2,800	2,550	2,550
HGS	Spec	Mnth33	Decrease	USD	3,080	2,800	2,805	2,550
HGS	Hedge/Member	Mnth33	Decrease	USD	2,800	2,800	2,550	2,550
HGS	Spec	Mnth34	Decrease	USD	3,080	2,800	2,805	2,550
HGS	Hedge/Member	Mnth34	Decrease	USD	2,800	2,800	2,550	2,550
HGS	Spec	Mnth35	Decrease	USD	3,080	2,800	2,805	2,550
HGS	Hedge/Member	Mnth35	Decrease	USD	2,800	2,800	2,550	2,550
HGS	Spec	Mnth36	Decrease	USD	3,080	2,800	2,805	2,550
HGS	Hedge/Member	Mnth36	Decrease	USD	2,800	2,800	2,550	2,550
HGS	Spec	Mnth37	Decrease	USD	3,080	2,800	2,805	2,550
HGS	Hedge/Member	Mnth37	Decrease	USD	2,800	2,800	2,550	2,550
HGS	Spec	Mnth38	Decrease	USD	3,080	2,800	2,805	2,550
HGS	Hedge/Member	Mnth38	Decrease	USD	2,800	2,800	2,550	2,550
HGS	Spec	Mnth39+	Decrease	USD	3,080	2,800	2,805	2,550
HGS	Hedge/Member	Mnth39+	Decrease	USD	2,800	2,800	2,550	2,550

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
Outright Rates								
COPPER SPOT TAS (HG0)								
HG0	Spec	Mnth1	Decrease	USD	3,410	3,100	3,135	2,850
HG0	Hedge/Member	Mnth1	Decrease	USD	3,100	3,100	2,850	2,850
HG0	Spec	Mnth2	Decrease	USD	3,410	3,100	3,135	2,850
HG0	Hedge/Member	Mnth2	Decrease	USD	3,100	3,100	2,850	2,850
HG0	Spec	Mnth3	Decrease	USD	3,410	3,100	3,135	2,850
HG0	Hedge/Member	Mnth3	Decrease	USD	3,100	3,100	2,850	2,850
HG0	Spec	Mnth4	Decrease	USD	3,410	3,100	3,135	2,850
HG0	Hedge/Member	Mnth4	Decrease	USD	3,100	3,100	2,850	2,850
HG0	Spec	Mnth5	Decrease	USD	3,410	3,100	3,135	2,850
HG0	Hedge/Member	Mnth5	Decrease	USD	3,100	3,100	2,850	2,850
HG0	Spec	Mnth6	Decrease	USD	3,355	3,050	3,080	2,800
HG0	Hedge/Member	Mnth6	Decrease	USD	3,050	3,050	2,800	2,800
HG0	Spec	Mnth7	Decrease	USD	3,355	3,050	3,080	2,800
HG0	Hedge/Member	Mnth7	Decrease	USD	3,050	3,050	2,800	2,800
HG0	Spec	Mnth8	Decrease	USD	3,300	3,000	3,025	2,750
HG0	Hedge/Member	Mnth8	Decrease	USD	3,000	3,000	2,750	2,750
HG0	Spec	Mnth9	Decrease	USD	3,190	2,900	2,915	2,650
HG0	Hedge/Member	Mnth9	Decrease	USD	2,900	2,900	2,650	2,650
HG0	Spec	Mnth10	Decrease	USD	3,190	2,900	2,915	2,650
HG0	Hedge/Member	Mnth10	Decrease	USD	2,900	2,900	2,650	2,650
HG0	Spec	Mnth11	Decrease	USD	3,190	2,900	2,915	2,650
HG0	Hedge/Member	Mnth11	Decrease	USD	2,900	2,900	2,650	2,650
HG0	Spec	Mnth12	Decrease	USD	3,190	2,900	2,915	2,650
HG0	Hedge/Member	Mnth12	Decrease	USD	2,900	2,900	2,650	2,650
HG0	Spec	Mnth13	Decrease	USD	3,190	2,900	2,915	2,650
HG0	Hedge/Member	Mnth13	Decrease	USD	2,900	2,900	2,650	2,650
HG0	Spec	Mnth14	Decrease	USD	3,190	2,900	2,915	2,650
HG0	Hedge/Member	Mnth14	Decrease	USD	2,900	2,900	2,650	2,650
HG0	Spec	Mnth15	Decrease	USD	3,190	2,900	2,915	2,650
HG0	Hedge/Member	Mnth15	Decrease	USD	2,900	2,900	2,650	2,650
HG0	Spec	Mnth16	Decrease	USD	3,190	2,900	2,915	2,650
HG0	Hedge/Member	Mnth16	Decrease	USD	2,900	2,900	2,650	2,650
HG0	Spec	Mnth17	Decrease	USD	3,190	2,900	2,915	2,650
HG0	Hedge/Member	Mnth17	Decrease	USD	2,900	2,900	2,650	2,650
HG0	Spec	Mnth18	Decrease	USD	3,190	2,900	2,915	2,650
HG0	Hedge/Member	Mnth18	Decrease	USD	2,900	2,900	2,650	2,650
HG0	Spec	Mnth19	Decrease	USD	3,190	2,900	2,915	2,650
HG0	Hedge/Member	Mnth19	Decrease	USD	2,900	2,900	2,650	2,650
HG0	Spec	Mnth20	Decrease	USD	3,190	2,900	2,915	2,650

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
Outright Rates								
HG0	Hedge/Member	Mnth20	Decrease	USD	2,900	2,900	2,650	2,650
HG0	Spec	Mnth21	Decrease	USD	3,190	2,900	2,915	2,650
HG0	Hedge/Member	Mnth21	Decrease	USD	2,900	2,900	2,650	2,650
HG0	Spec	Mnth22	Decrease	USD	3,190	2,900	2,915	2,650
HG0	Hedge/Member	Mnth22	Decrease	USD	2,900	2,900	2,650	2,650
HG0	Spec	Mnth23	Decrease	USD	3,190	2,900	2,915	2,650
HG0	Hedge/Member	Mnth23	Decrease	USD	2,900	2,900	2,650	2,650
HG0	Spec	Mnth24	Decrease	USD	3,190	2,900	2,915	2,650
HG0	Hedge/Member	Mnth24	Decrease	USD	2,900	2,900	2,650	2,650
HG0	Spec	Mnth25	Decrease	USD	3,190	2,900	2,915	2,650
HG0	Hedge/Member	Mnth25	Decrease	USD	2,900	2,900	2,650	2,650
HG0	Spec	Mnth26	Decrease	USD	3,080	2,800	2,805	2,550
HG0	Hedge/Member	Mnth26	Decrease	USD	2,800	2,800	2,550	2,550
HG0	Spec	Mnth27	Decrease	USD	3,080	2,800	2,805	2,550
HG0	Hedge/Member	Mnth27	Decrease	USD	2,800	2,800	2,550	2,550
HG0	Spec	Mnth28	Decrease	USD	3,080	2,800	2,805	2,550
HG0	Hedge/Member	Mnth28	Decrease	USD	2,800	2,800	2,550	2,550
HG0	Spec	Mnth29	Decrease	USD	3,080	2,800	2,805	2,550
HG0	Hedge/Member	Mnth29	Decrease	USD	2,800	2,800	2,550	2,550
HG0	Spec	Mnth30	Decrease	USD	3,080	2,800	2,805	2,550
HG0	Hedge/Member	Mnth30	Decrease	USD	2,800	2,800	2,550	2,550
HG0	Spec	Mnth31	Decrease	USD	3,080	2,800	2,805	2,550
HG0	Hedge/Member	Mnth31	Decrease	USD	2,800	2,800	2,550	2,550
HG0	Spec	Mnth32	Decrease	USD	3,080	2,800	2,805	2,550
HG0	Hedge/Member	Mnth32	Decrease	USD	2,800	2,800	2,550	2,550
HG0	Spec	Mnth33	Decrease	USD	3,080	2,800	2,805	2,550
HG0	Hedge/Member	Mnth33	Decrease	USD	2,800	2,800	2,550	2,550
HG0	Spec	Mnth34	Decrease	USD	3,080	2,800	2,805	2,550
HG0	Hedge/Member	Mnth34	Decrease	USD	2,800	2,800	2,550	2,550
HG0	Spec	Mnth35	Decrease	USD	3,080	2,800	2,805	2,550
HG0	Hedge/Member	Mnth35	Decrease	USD	2,800	2,800	2,550	2,550
HG0	Spec	Mnth36	Decrease	USD	3,080	2,800	2,805	2,550
HG0	Hedge/Member	Mnth36	Decrease	USD	2,800	2,800	2,550	2,550
HG0	Spec	Mnth37	Decrease	USD	3,080	2,800	2,805	2,550
HG0	Hedge/Member	Mnth37	Decrease	USD	2,800	2,800	2,550	2,550
HG0	Spec	Mnth38	Decrease	USD	3,080	2,800	2,805	2,550
HG0	Hedge/Member	Mnth38	Decrease	USD	2,800	2,800	2,550	2,550
HG0	Spec	Mnth39+	Decrease	USD	3,080	2,800	2,805	2,550
HG0	Hedge/Member	Mnth39+	Decrease	USD	2,800	2,800	2,550	2,550

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
Outright Rates								
COPPER TAS (HGT)								
HGT	Spec	Mnth1	Decrease	USD	3,410	3,100	3,135	2,850
HGT	Hedge/Member	Mnth1	Decrease	USD	3,100	3,100	2,850	2,850
HGT	Spec	Mnth2	Decrease	USD	3,410	3,100	3,135	2,850
HGT	Hedge/Member	Mnth2	Decrease	USD	3,100	3,100	2,850	2,850
HGT	Spec	Mnth3	Decrease	USD	3,410	3,100	3,135	2,850
HGT	Hedge/Member	Mnth3	Decrease	USD	3,100	3,100	2,850	2,850
HGT	Spec	Mnth4	Decrease	USD	3,410	3,100	3,135	2,850
HGT	Hedge/Member	Mnth4	Decrease	USD	3,100	3,100	2,850	2,850
HGT	Spec	Mnth5	Decrease	USD	3,410	3,100	3,135	2,850
HGT	Hedge/Member	Mnth5	Decrease	USD	3,100	3,100	2,850	2,850
HGT	Spec	Mnth6	Decrease	USD	3,355	3,050	3,080	2,800
HGT	Hedge/Member	Mnth6	Decrease	USD	3,050	3,050	2,800	2,800
HGT	Spec	Mnth7	Decrease	USD	3,355	3,050	3,080	2,800
HGT	Hedge/Member	Mnth7	Decrease	USD	3,050	3,050	2,800	2,800
HGT	Spec	Mnth8	Decrease	USD	3,300	3,000	3,025	2,750
HGT	Hedge/Member	Mnth8	Decrease	USD	3,000	3,000	2,750	2,750
HGT	Spec	Mnth9	Decrease	USD	3,190	2,900	2,915	2,650
HGT	Hedge/Member	Mnth9	Decrease	USD	2,900	2,900	2,650	2,650
HGT	Spec	Mnth10	Decrease	USD	3,190	2,900	2,915	2,650
HGT	Hedge/Member	Mnth10	Decrease	USD	2,900	2,900	2,650	2,650
HGT	Spec	Mnth11	Decrease	USD	3,190	2,900	2,915	2,650
HGT	Hedge/Member	Mnth11	Decrease	USD	2,900	2,900	2,650	2,650
HGT	Spec	Mnth12	Decrease	USD	3,190	2,900	2,915	2,650
HGT	Hedge/Member	Mnth12	Decrease	USD	2,900	2,900	2,650	2,650
HGT	Spec	Mnth13	Decrease	USD	3,190	2,900	2,915	2,650
HGT	Hedge/Member	Mnth13	Decrease	USD	2,900	2,900	2,650	2,650
HGT	Spec	Mnth14	Decrease	USD	3,190	2,900	2,915	2,650
HGT	Hedge/Member	Mnth14	Decrease	USD	2,900	2,900	2,650	2,650
HGT	Spec	Mnth15	Decrease	USD	3,190	2,900	2,915	2,650
HGT	Hedge/Member	Mnth15	Decrease	USD	2,900	2,900	2,650	2,650
HGT	Spec	Mnth16	Decrease	USD	3,190	2,900	2,915	2,650
HGT	Hedge/Member	Mnth16	Decrease	USD	2,900	2,900	2,650	2,650
HGT	Spec	Mnth17	Decrease	USD	3,190	2,900	2,915	2,650
HGT	Hedge/Member	Mnth17	Decrease	USD	2,900	2,900	2,650	2,650
HGT	Spec	Mnth18	Decrease	USD	3,190	2,900	2,915	2,650
HGT	Hedge/Member	Mnth18	Decrease	USD	2,900	2,900	2,650	2,650
HGT	Spec	Mnth19	Decrease	USD	3,190	2,900	2,915	2,650
HGT	Hedge/Member	Mnth19	Decrease	USD	2,900	2,900	2,650	2,650
HGT	Spec	Mnth20	Decrease	USD	3,190	2,900	2,915	2,650

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
Outright Rates								
HGT	Hedge/Member	Mnth20	Decrease	USD	2,900	2,900	2,650	2,650
HGT	Spec	Mnth21	Decrease	USD	3,190	2,900	2,915	2,650
HGT	Hedge/Member	Mnth21	Decrease	USD	2,900	2,900	2,650	2,650
HGT	Spec	Mnth22	Decrease	USD	3,190	2,900	2,915	2,650
HGT	Hedge/Member	Mnth22	Decrease	USD	2,900	2,900	2,650	2,650
HGT	Spec	Mnth23	Decrease	USD	3,190	2,900	2,915	2,650
HGT	Hedge/Member	Mnth23	Decrease	USD	2,900	2,900	2,650	2,650
HGT	Spec	Mnth24	Decrease	USD	3,190	2,900	2,915	2,650
HGT	Hedge/Member	Mnth24	Decrease	USD	2,900	2,900	2,650	2,650
HGT	Spec	Mnth25	Decrease	USD	3,190	2,900	2,915	2,650
HGT	Hedge/Member	Mnth25	Decrease	USD	2,900	2,900	2,650	2,650
HGT	Spec	Mnth26	Decrease	USD	3,080	2,800	2,805	2,550
HGT	Hedge/Member	Mnth26	Decrease	USD	2,800	2,800	2,550	2,550
HGT	Spec	Mnth27	Decrease	USD	3,080	2,800	2,805	2,550
HGT	Hedge/Member	Mnth27	Decrease	USD	2,800	2,800	2,550	2,550
HGT	Spec	Mnth28	Decrease	USD	3,080	2,800	2,805	2,550
HGT	Hedge/Member	Mnth28	Decrease	USD	2,800	2,800	2,550	2,550
HGT	Spec	Mnth29	Decrease	USD	3,080	2,800	2,805	2,550
HGT	Hedge/Member	Mnth29	Decrease	USD	2,800	2,800	2,550	2,550
HGT	Spec	Mnth30	Decrease	USD	3,080	2,800	2,805	2,550
HGT	Hedge/Member	Mnth30	Decrease	USD	2,800	2,800	2,550	2,550
HGT	Spec	Mnth31	Decrease	USD	3,080	2,800	2,805	2,550
HGT	Hedge/Member	Mnth31	Decrease	USD	2,800	2,800	2,550	2,550
HGT	Spec	Mnth32	Decrease	USD	3,080	2,800	2,805	2,550
HGT	Hedge/Member	Mnth32	Decrease	USD	2,800	2,800	2,550	2,550
HGT	Spec	Mnth33	Decrease	USD	3,080	2,800	2,805	2,550
HGT	Hedge/Member	Mnth33	Decrease	USD	2,800	2,800	2,550	2,550
HGT	Spec	Mnth34	Decrease	USD	3,080	2,800	2,805	2,550
HGT	Hedge/Member	Mnth34	Decrease	USD	2,800	2,800	2,550	2,550
HGT	Spec	Mnth35	Decrease	USD	3,080	2,800	2,805	2,550
HGT	Hedge/Member	Mnth35	Decrease	USD	2,800	2,800	2,550	2,550
HGT	Spec	Mnth36	Decrease	USD	3,080	2,800	2,805	2,550
HGT	Hedge/Member	Mnth36	Decrease	USD	2,800	2,800	2,550	2,550
HGT	Spec	Mnth37	Decrease	USD	3,080	2,800	2,805	2,550
HGT	Hedge/Member	Mnth37	Decrease	USD	2,800	2,800	2,550	2,550
HGT	Spec	Mnth38	Decrease	USD	3,080	2,800	2,805	2,550
HGT	Hedge/Member	Mnth38	Decrease	USD	2,800	2,800	2,550	2,550
HGT	Spec	Mnth39+	Decrease	USD	3,080	2,800	2,805	2,550
HGT	Hedge/Member	Mnth39+	Decrease	USD	2,800	2,800	2,550	2,550

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
Outright Rates								
E-MINI COPPER FUTURES (QC)								
QC	Spec	Mnth1	Decrease	USD	1,705	1,550	1,568	1,425
QC	Hedge/Member	Mnth1	Decrease	USD	1,550	1,550	1,425	1,425
QC	Spec	Mnth2	Decrease	USD	1,705	1,550	1,568	1,425
QC	Hedge/Member	Mnth2	Decrease	USD	1,550	1,550	1,425	1,425
QC	Spec	Mnth3	Decrease	USD	1,705	1,550	1,568	1,425
QC	Hedge/Member	Mnth3	Decrease	USD	1,550	1,550	1,425	1,425
QC	Spec	Mnth4	Decrease	USD	1,705	1,550	1,568	1,425
QC	Hedge/Member	Mnth4	Decrease	USD	1,550	1,550	1,425	1,425
QC	Spec	Mnth5	Decrease	USD	1,705	1,550	1,568	1,425
QC	Hedge/Member	Mnth5	Decrease	USD	1,550	1,550	1,425	1,425
QC	Spec	Mnth6	Decrease	USD	1,678	1,525	1,540	1,400
QC	Hedge/Member	Mnth6	Decrease	USD	1,525	1,525	1,400	1,400
QC	Spec	Mnth7	Decrease	USD	1,678	1,525	1,540	1,400
QC	Hedge/Member	Mnth7	Decrease	USD	1,525	1,525	1,400	1,400
QC	Spec	Mnth8	Decrease	USD	1,650	1,500	1,513	1,375
QC	Hedge/Member	Mnth8	Decrease	USD	1,500	1,500	1,375	1,375
QC	Spec	Mnth9	Decrease	USD	1,595	1,450	1,458	1,325
QC	Hedge/Member	Mnth9	Decrease	USD	1,450	1,450	1,325	1,325
QC	Spec	Mnth10	Decrease	USD	1,595	1,450	1,458	1,325
QC	Hedge/Member	Mnth10	Decrease	USD	1,450	1,450	1,325	1,325
QC	Spec	Mnth11	Decrease	USD	1,595	1,450	1,458	1,325
QC	Hedge/Member	Mnth11	Decrease	USD	1,450	1,450	1,325	1,325
QC	Spec	Mnth12	Decrease	USD	1,595	1,450	1,458	1,325
QC	Hedge/Member	Mnth12	Decrease	USD	1,450	1,450	1,325	1,325
QC	Spec	Mnth13	Decrease	USD	1,595	1,450	1,458	1,325
QC	Hedge/Member	Mnth13	Decrease	USD	1,450	1,450	1,325	1,325
QC	Spec	Mnth14	Decrease	USD	1,595	1,450	1,458	1,325
QC	Hedge/Member	Mnth14	Decrease	USD	1,450	1,450	1,325	1,325
QC	Spec	Mnth15	Decrease	USD	1,595	1,450	1,458	1,325
QC	Hedge/Member	Mnth15	Decrease	USD	1,450	1,450	1,325	1,325
QC	Spec	Mnth16	Decrease	USD	1,595	1,450	1,458	1,325
QC	Hedge/Member	Mnth16	Decrease	USD	1,450	1,450	1,325	1,325
QC	Spec	Mnth17	Decrease	USD	1,595	1,450	1,458	1,325
QC	Hedge/Member	Mnth17	Decrease	USD	1,450	1,450	1,325	1,325
QC	Spec	Mnth18	Decrease	USD	1,595	1,450	1,458	1,325
QC	Hedge/Member	Mnth18	Decrease	USD	1,450	1,450	1,325	1,325
QC	Spec	Mnth19	Decrease	USD	1,595	1,450	1,458	1,325
QC	Hedge/Member	Mnth19	Decrease	USD	1,450	1,450	1,325	1,325
QC	Spec	Mnth20	Decrease	USD	1,595	1,450	1,458	1,325

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
Outright Rates								
QC	Hedge/Member	Mnth20	Decrease	USD	1,450	1,450	1,325	1,325
QC	Spec	Mnth21	Decrease	USD	1,595	1,450	1,458	1,325
QC	Hedge/Member	Mnth21	Decrease	USD	1,450	1,450	1,325	1,325
QC	Spec	Mnth22	Decrease	USD	1,595	1,450	1,458	1,325
QC	Hedge/Member	Mnth22	Decrease	USD	1,450	1,450	1,325	1,325
QC	Spec	Mnth23	Decrease	USD	1,595	1,450	1,458	1,325
QC	Hedge/Member	Mnth23	Decrease	USD	1,450	1,450	1,325	1,325
QC	Spec	Mnth24	Decrease	USD	1,595	1,450	1,458	1,325
QC	Hedge/Member	Mnth24	Decrease	USD	1,450	1,450	1,325	1,325
QC	Spec	Mnth25	Decrease	USD	1,595	1,450	1,458	1,325
QC	Hedge/Member	Mnth25	Decrease	USD	1,450	1,450	1,325	1,325
QC	Spec	Mnth26	Decrease	USD	1,540	1,400	1,403	1,275
QC	Hedge/Member	Mnth26	Decrease	USD	1,400	1,400	1,275	1,275
QC	Spec	Mnth27	Decrease	USD	1,540	1,400	1,403	1,275
QC	Hedge/Member	Mnth27	Decrease	USD	1,400	1,400	1,275	1,275
QC	Spec	Mnth28	Decrease	USD	1,540	1,400	1,403	1,275
QC	Hedge/Member	Mnth28	Decrease	USD	1,400	1,400	1,275	1,275
QC	Spec	Mnth29	Decrease	USD	1,540	1,400	1,403	1,275
QC	Hedge/Member	Mnth29	Decrease	USD	1,400	1,400	1,275	1,275
QC	Spec	Mnth30	Decrease	USD	1,540	1,400	1,403	1,275
QC	Hedge/Member	Mnth30	Decrease	USD	1,400	1,400	1,275	1,275
QC	Spec	Mnth31	Decrease	USD	1,540	1,400	1,403	1,275
QC	Hedge/Member	Mnth31	Decrease	USD	1,400	1,400	1,275	1,275
QC	Spec	Mnth32	Decrease	USD	1,540	1,400	1,403	1,275
QC	Hedge/Member	Mnth32	Decrease	USD	1,400	1,400	1,275	1,275
QC	Spec	Mnth33	Decrease	USD	1,540	1,400	1,403	1,275
QC	Hedge/Member	Mnth33	Decrease	USD	1,400	1,400	1,275	1,275
QC	Spec	Mnth34	Decrease	USD	1,540	1,400	1,403	1,275
QC	Hedge/Member	Mnth34	Decrease	USD	1,400	1,400	1,275	1,275
QC	Spec	Mnth35	Decrease	USD	1,540	1,400	1,403	1,275
QC	Hedge/Member	Mnth35	Decrease	USD	1,400	1,400	1,275	1,275
QC	Spec	Mnth36	Decrease	USD	1,540	1,400	1,403	1,275
QC	Hedge/Member	Mnth36	Decrease	USD	1,400	1,400	1,275	1,275
QC	Spec	Mnth37	Decrease	USD	1,540	1,400	1,403	1,275
QC	Hedge/Member	Mnth37	Decrease	USD	1,400	1,400	1,275	1,275
QC	Spec	Mnth38	Decrease	USD	1,540	1,400	1,403	1,275
QC	Hedge/Member	Mnth38	Decrease	USD	1,400	1,400	1,275	1,275
QC	Spec	Mnth39+	Decrease	USD	1,540	1,400	1,403	1,275
QC	Hedge/Member	Mnth39+	Decrease	USD	1,400	1,400	1,275	1,275

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

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

IRON ORE FUTURES (TIO)

TIO	Spec	Mnth 1	Decrease	USD	2,145	1,950	1,650	1,500
TIO	Hedge/Member	Mnth 1	Decrease	USD	1,950	1,950	1,500	1,500
TIO	Spec	Mnths 2-4	Decrease	USD	2,145	1,950	1,650	1,500
TIO	Hedge/Member	Mnths 2-4	Decrease	USD	1,950	1,950	1,500	1,500
TIO	Spec	Mnths 5+	Decrease	USD	1,870	1,700	1,375	1,250
TIO	Hedge/Member	Mnths 5+	Decrease	USD	1,700	1,700	1,250	1,250

URANIUM FUTURES (UX)

UX	Spec		Decrease	USD	880	800	770	700
UX	Hedge/Member		Decrease	USD	800	800	700	700

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
Outright Rates								
NATURAL GAS - Outright Rates								
CHICAGO INDEX FUT (IS)								
IS	Spec	Mth 1	Increase	USD	4,400	4,000	5,500	5,000
IS	Hedge/Member	Mth 1	Increase	USD	4,000	4,000	5,000	5,000
CHICAGO SWING FUTURE (SS)								
SS	Spec		Increase	USD	4,400	4,000	5,500	5,000
SS	Hedge/Member		Increase	USD	4,000	4,000	5,000	5,000
DEMARCO INDEX FUTURE (DI)								
DI	Spec	Mth 1	Increase	USD	2,750	2,500	4,235	3,850
DI	Hedge/Member	Mth 1	Increase	USD	2,500	2,500	3,850	3,850
DEMARCO SWING FUT (DT)								
DT	Spec		Increase	USD	3,850	3,500	4,235	3,850
DT	Hedge/Member		Increase	USD	3,500	3,500	3,850	3,850
MICHCON NG INDEX FUT (Y8)								
Y8	Spec	Mth 1	Increase	USD	3,850	3,500	4,950	4,500
Y8	Hedge/Member	Mth 1	Increase	USD	3,500	3,500	4,500	4,500
MICHCON NG SWING (T8)								
T8	Spec		Increase	USD	3,850	3,500	4,950	4,500
T8	Hedge/Member		Increase	USD	3,500	3,500	4,500	4,500
SOUTHERN NAT, LA NAT GAS INDEX FUT (M8)								
M8	Spec	Mth 2	Increase	USD	83	75	165	150
M8	Hedge/Member	Mth 2	Increase	USD	75	75	150	150
M8	Spec	Mnths 3+	New	USD			83	75
M8	Hedge/Member	Mnths 3+	New	USD			75	75
TRANSCO ZONE 5 GAS SWING FUT (TZ5)								
TZ5	Spec	All Months	Increase	USD	6,336	5,760	6,930	6,300
TZ5	Hedge/Member	All Months	Increase	USD	5,760	5,760	6,300	6,300
TRANSCO ZONE 6 GAS INDEX FUT (TZI)								
TZI	Spec	Mnths 1-2	Increase	USD	22,000	20,000	24,200	22,000
TZI	Hedge/Member	Mnths 1-2	Increase	USD	20,000	20,000	22,000	22,000
TRANSCO ZONE 6 GAS SWING FUT (TZS)								
TZS	Spec	All Months	Increase	USD	22,000	20,000	24,200	22,000
TZS	Hedge/Member	All Months	Increase	USD	20,000	20,000	22,000	22,000

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
Outright Rates								
VENTURA INDEX FUTURE (VI)								
VI	Spec	Mnth 1	Increase	USD	3,850	3,500	4,125	3,750
VI	Hedge/Member	Mnth 1	Increase	USD	3,500	3,500	3,750	3,750
VENTURA SWING FUT (VS)								
VS	Spec		Increase	USD	3,850	3,500	4,125	3,750
VS	Hedge/Member		Increase	USD	3,500	3,500	3,750	3,750
WAHA INDEX FUT (IY)								
IY	Spec	Mth 2	Increase	USD	83	75	165	150
IY	Hedge/Member	Mth 2	Increase	USD	75	75	150	150
IY	Spec	Mths 3+	New	USD			83	75
IY	Hedge/Member	Mths 3+	New	USD			75	75
PETROLEUM CRACKS AND SPREADS - Outright Rates								
GULF CO HSFO 3% V. EURO 3.5% FO FUT (GCU)								
GCU	Spec	Mnth 1	Increase	USD	1,100	1,000	1,430	1,300
GCU	Hedge/Member	Mnth 1	Increase	USD	1,000	1,000	1,300	1,300
GCU	Spec	Mnth 2-6	Increase	USD	457	415	880	800
GCU	Hedge/Member	Mnth 2-6	Increase	USD	415	415	800	800
GCU	Spec	Mnths 7+	Increase	USD	440	400	880	800
GCU	Hedge/Member	Mnths 7+	Increase	USD	400	400	800	800
MINI 380CST VS 3.5% FUEL OIL FUT (MSB)								
MSB	Spec	Mths 16+	Increase	USD	319	290	374	340
MSB	Hedge/Member	Mths 16+	Increase	USD	290	290	340	340
SING 380 FUEL OIL VS FUEL OIL ROTDM (EVC)								
EVC	Spec	Mths 16+	Increase	USD	3,190	2,900	3,740	3,400
EVC	Hedge/Member	Mths 16+	Increase	USD	2,900	2,900	3,400	3,400

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
Intra Spreads								
AGRICULTURE - Intra Spreads								
Nonfat Dry Milk (NF) - Tier 1 vs Tier 2 (NONFAT DRY MILK FUTURES)								
NF	Spec		Increase	USD	2,200	2,000	2,585	2,350
NF	Hedge/Member		Increase	USD	2,000	2,000	2,350	2,350
Tier 1 vs Tier 2 (SOYBEAN OIL FUTURES)								
07	Spec		Decrease	USD	330	300	165	150
07	Hedge/Member		Decrease	USD	300	300	150	150
Tier 1 vs Tier 2 (SOYBEAN OIL TAS FUTURES)								
ZLT	Spec		Decrease	USD	330	300	165	150
ZLT	Hedge/Member		Decrease	USD	300	300	150	150
Tier 1 vs Tier 3 (SOYBEAN OIL FUTURES)								
07	Spec		Decrease	USD	330	300	275	250
07	Hedge/Member		Decrease	USD	300	300	250	250
Tier 1 vs Tier 3 (SOYBEAN OIL TAS FUTURES)								
ZLT	Spec		Decrease	USD	330	300	275	250
ZLT	Hedge/Member		Decrease	USD	300	300	250	250
Tier 2 vs Tier 2 (SOYBEAN OIL FUTURES)								
07	Spec		Decrease	USD	330	300	275	250
07	Hedge/Member		Decrease	USD	300	300	250	250
Tier 2 vs Tier 2 (SOYBEAN OIL TAS FUTURES)								
ZLT	Spec		Decrease	USD	330	300	275	250
ZLT	Hedge/Member		Decrease	USD	300	300	250	250
Tier 2 vs Tier 3 (SOYBEAN OIL FUTURES)								
07	Spec		Decrease	USD	330	300	275	250
07	Hedge/Member		Decrease	USD	300	300	250	250
Tier 2 vs Tier 3 (SOYBEAN OIL TAS FUTURES)								
ZLT	Spec		Decrease	USD	330	300	275	250
ZLT	Hedge/Member		Decrease	USD	300	300	250	250
Tier 3 vs Tier 3 (SOYBEAN OIL FUTURES)								
07	Spec		Decrease	USD	330	300	275	250
07	Hedge/Member		Decrease	USD	300	300	250	250
Tier 3 vs Tier 3 (SOYBEAN OIL TAS FUTURES)								
ZLT	Spec		Decrease	USD	330	300	275	250
ZLT	Hedge/Member		Decrease	USD	300	300	250	250

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

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

COAL - Intra Spreads

Eastern Rail CSX Coal Swap Futures - All Months (EASTERN RAIL DELIVERY CSX COAL FUT)

QX	Spec		Increase	USD	1,595	1,450	1,815	1,650
QX	Hedge/Member		Increase	USD	1,450	1,450	1,650	1,650

INTEREST RATES - Intra Spreads

Eurodollar (ED) - Double Condor (Mo.06) (EURODOLLAR FUTURES)

ED	Spec		Increase	USD	11	10	17	15
ED	Hedge/Member		Increase	USD	10	10	15	15

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
Intra Spreads								
METALS - Intra Spreads								
COMEX Gold - Mths 1-4 vs. Mths 1-4 (10 TROY OZ GOLD FUTURES)								
MGC	Spec		Increase	USD	11	10	14	13
MGC	Hedge/Member		Increase	USD	10	10	13	13
COMEX Gold - Mths 1-4 vs. Mths 1-4 (COMEX 100 GOLD FUTURES)								
GC	Spec		Increase	USD	110	100	143	130
GC	Hedge/Member		Increase	USD	100	100	130	130
COMEX Gold - Mths 1-4 vs. Mths 1-4 (COMEX 100 GOLD TRADE AT SETTLEMENT)								
GCT	Spec		Increase	USD	110	100	143	130
GCT	Hedge/Member		Increase	USD	100	100	130	130
COMEX Gold - Mths 1-4 vs. Mths 1-4 (COMEX MINY GOLD FUTURES)								
QO	Spec		Increase	USD	55	50	72	65
QO	Hedge/Member		Increase	USD	50	50	65	65
COMEX Gold - Mths 1-4 vs. Mths 5-6 (10 TROY OZ GOLD FUTURES)								
MGC	Spec		Increase	USD	11	10	18	16
MGC	Hedge/Member		Increase	USD	10	10	16	16
COMEX Gold - Mths 1-4 vs. Mths 5-6 (COMEX 100 GOLD FUTURES)								
GC	Spec		Increase	USD	110	100	176	160
GC	Hedge/Member		Increase	USD	100	100	160	160
COMEX Gold - Mths 1-4 vs. Mths 5-6 (COMEX 100 GOLD TRADE AT SETTLEMENT)								
GCT	Spec		Increase	USD	110	100	176	160
GCT	Hedge/Member		Increase	USD	100	100	160	160
COMEX Gold - Mths 1-4 vs. Mths 5-6 (COMEX MINY GOLD FUTURES)								
QO	Spec		Increase	USD	55	50	88	80
QO	Hedge/Member		Increase	USD	50	50	80	80
COMEX Gold - Mths 1-4 vs. Mths 7-12 (10 TROY OZ GOLD FUTURES)								
MGC	Spec		Increase	USD	17	15	19	17
MGC	Hedge/Member		Increase	USD	15	15	17	17

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

CC	Rate Type	Description	Change	ISO	Current Initial	Current Maintenance	New Initial	New Maintenance
Intra Spreads								
COMEX Gold - Mths 1-4 vs. Mths 7-12 (COMEX 100 GOLD FUTURES)								
GC	Spec		Increase	USD	165	150	187	170
GC	Hedge/Member		Increase	USD	150	150	170	170
COMEX Gold - Mths 1-4 vs. Mths 7-12 (COMEX 100 GOLD TRADE AT SETTLEMENT)								
GCT	Spec		Increase	USD	165	150	187	170
GCT	Hedge/Member		Increase	USD	150	150	170	170
COMEX Gold - Mths 1-4 vs. Mths 7-12 (COMEX MINY GOLD FUTURES)								
QO	Spec		Increase	USD	83	75	94	85
QO	Hedge/Member		Increase	USD	75	75	85	85
PETROLEUM CRACKS AND SPREADS - Intra Spreads								
3.5% Fuel Oil Rdam v 3.5% FOB MED Spread Swap - All Months (EURO 3.5% FUEL OIL SPREAD)								
FK	Spec		Increase	USD	1,100	1,000	1,320	1,200
FK	Hedge/Member		Increase	USD	1,000	1,000	1,200	1,200
FAME 0 BIODIESEL (ARGUS) FOB ROTTERDAM (RED COMPLIANT) VS> ICE GASOIL SPREAD SWAP FUTURE - ALL MONTHS (FAME BIO ARGUS RDM RED VS ICE GAS)								
FBT	Spec		Increase	USD	2,420	2,200	3,080	2,800
FBT	Hedge/Member		Increase	USD	2,200	2,200	2,800	2,800

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						
Feeder Cattle (FC) vs. Live Cattle (LC)						
Spread Credit Rate	Increase	+2:-3	40%	40%	50%	50%
Oats vs. KCBT Wheat						
Spread Credit Rate	Increase	+2:-1	0%	0%	40%	40%
Soybean Meal vs. KCBT Wheat						
Spread Credit Rate	Increase	+1:-1	0%	0%	40%	40%
WHEAT (W - CME) vs OATS (O - CME)						
Spread Credit Rate	Increase	+1:-1	0%	0%	35%	35%
WHEAT (W - CME) vs ROUGH RICE (14 - CME)						
Spread Credit Rate	Increase	+1:-2	0%	0%	40%	40%
COAL - Inter-commodity Spread Rates						
ALUMINUM FUTURES (CX-ALI - CME) vs COAL (API 2) CIF ARA (ARGUS/MCCLOSKEY) SWAP FUTURES (NY-MTF - CME)						
Spread Credit Rate	New	+1:-1			20%	20%
EQUITY INDEX - Inter-commodity Spread Rates						
NIKKEI 225 DOLLAR-BASED (NK - CME) vs JAPANESE YEN (JY - 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						
ERIS Flex - Inter-commodity Spread Rates						
10YR INTEREST RATE SWAP FUTURE ERIS vs 10YR TREASURY						
Spread Credit Rate	Decrease	+1:+1	80%	80%	75%	75%
10YR INTEREST RATE SWAP FUTURE ERIS vs 5YR TREASURY						
Spread Credit Rate	Decrease	+2:+3	70%	70%	60%	60%
ERIS INVOICE SWAP FUTURE (10 YR CBOT) (ZC9906 - CME) vs 10-YEAR T-NOTE (21 - CME)						
Spread Credit Rate	New	+1:+1			75%	75%
ERIS INVOICE SWAP FUTURE (10 YR CBOT) (ZC9906 - CME) vs 5-YEAR T-NOTE (25 - CME)						
Spread Credit Rate	New	+2:+3			60%	60%
ERIS INVOICE SWAP FUTURE (10 YR CBOT) (ZC9906 - CME) vs U.S. TREASURY BOND (17 - CME)						
Spread Credit Rate	New	+5:+3			70%	70%
ERIS INVOICE SWAP FUTURE (10 YR CBOT) (ZC9906 - CME) vs ULTRA LONG TREASURY BOND (UBE - CME)						
Spread Credit Rate	New	+5:+2			60%	60%
ERIS INVOICE SWAP FUTURE (10YR CBOT) (ZC9903 - CME) vs 10-YEAR T-NOTE (21 - CME)						
Spread Credit Rate	New	+1:+1			75%	75%
ERIS INVOICE SWAP FUTURE (10YR CBOT) (ZC9903 - CME) vs 5-YEAR T-NOTE (25 - CME)						
Spread Credit Rate	New	+2:+3			60%	60%
ERIS INVOICE SWAP FUTURE (10YR CBOT) (ZC9903 - CME) vs U.S. TREASURY BOND (17 - CME)						
Spread Credit Rate	New	+5:+3			70%	70%
ERIS INVOICE SWAP FUTURE (10YR CBOT) (ZC9903 - CME) vs ULTRA LONG TREASURY BOND (UBE - CME)						
Spread Credit Rate	New	+5:+2			60%	60%
ERIS INVOICE SWAP FUTURE (10YR CBOT) (ZC9909 - CME) vs 10-YEAR T-NOTE (21 - CME)						
Spread Credit Rate	New	+1:+1			75%	75%
ERIS INVOICE SWAP FUTURE (10YR CBOT) (ZC9909 - CME) vs 5-YEAR T-NOTE (25 - CME)						
Spread Credit Rate	New	+2:+3			60%	60%
ERIS INVOICE SWAP FUTURE (10YR CBOT) (ZC9909 - CME) vs U.S. TREASURY BOND (17 - CME)						
Spread Credit Rate	New	+5:+3			70%	70%
ERIS INVOICE SWAP FUTURE (10YR CBOT) (ZC9909 - CME) vs ULTRA LONG TREASURY BOND (UBE - CME)						
Spread Credit Rate	New	+5:+2			60%	60%
ERIS INVOICE SWAP FUTURE (10YR CBOT) (ZC9912 - CME) vs 10-YEAR T-NOTE (21 - CME)						
Spread Credit Rate	New	+1:+1			75%	75%
ERIS INVOICE SWAP FUTURE (10YR CBOT) (ZC9912 - CME) vs 5-YEAR T-NOTE (25 - CME)						
Spread Credit Rate	New	+2:+3			60%	60%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
ERIS INVOICE SWAP FUTURE (10YR CBOT) (ZC9912 - CME) vs U.S. TREASURY BOND (17 - CME)						
Spread Credit Rate	New	+5:+3			70%	70%
ERIS INVOICE SWAP FUTURE (10YR CBOT) (ZC9912 - CME) vs ULTRA LONG TREASURY BOND (UBE - CME)						
Spread Credit Rate	New	+5:+2			60%	60%
ERIS INVOICE SWAP FUTURE (2YR CBOT) (ZA9903 - CME) vs 10-YEAR T-NOTE (21 - CME)						
Spread Credit Rate	New	+4:+1			50%	50%
ERIS INVOICE SWAP FUTURE (2YR CBOT) (ZA9903 - CME) vs 2-YEAR T-NOTE (26 - CME)						
Spread Credit Rate	New	+2:+1			70%	70%
ERIS INVOICE SWAP FUTURE (2YR CBOT) (ZA9903 - CME) vs 5-YEAR T-NOTE (25 - CME)						
Spread Credit Rate	New	+6:+5			60%	60%
ERIS INVOICE SWAP FUTURE (2YR CBOT) (ZA9906 - CME) vs 10-YEAR T-NOTE (21 - CME)						
Spread Credit Rate	New	+4:+1			50%	50%
ERIS INVOICE SWAP FUTURE (2YR CBOT) (ZA9906 - CME) vs 2-YEAR T-NOTE (26 - CME)						
Spread Credit Rate	New	+2:+1			70%	70%
ERIS INVOICE SWAP FUTURE (2YR CBOT) (ZA9906 - CME) vs 5-YEAR T-NOTE (25 - CME)						
Spread Credit Rate	New	+6:+5			60%	60%
ERIS INVOICE SWAP FUTURE (2YR CBOT) (ZA9909 - CME) vs 10-YEAR T-NOTE (21 - CME)						
Spread Credit Rate	New	+4:+1			50%	50%
ERIS INVOICE SWAP FUTURE (2YR CBOT) (ZA9909 - CME) vs 2-YEAR T-NOTE (26 - CME)						
Spread Credit Rate	New	+2:+1			70%	70%
ERIS INVOICE SWAP FUTURE (2YR CBOT) (ZA9909 - CME) vs 5-YEAR T-NOTE (25 - CME)						
Spread Credit Rate	New	+6:+5			60%	60%
ERIS INVOICE SWAP FUTURE (2YR CBOT) (ZA9912 - CME) vs 10-YEAR T-NOTE (21 - CME)						
Spread Credit Rate	New	+4:+1			50%	50%
ERIS INVOICE SWAP FUTURE (2YR CBOT) (ZA9912 - CME) vs 2-YEAR T-NOTE (26 - CME)						
Spread Credit Rate	New	+2:+1			70%	70%
ERIS INVOICE SWAP FUTURE (2YR CBOT) (ZA9912 - CME) vs 5-YEAR T-NOTE (25 - CME)						
Spread Credit Rate	New	+6:+5			60%	60%
ERIS INVOICE SWAP FUTURE (5YR CBOT) (ZB9903 - CME) vs 10-YEAR T-NOTE (21 - CME)						
Spread Credit Rate	New	+3:+2			70%	70%
ERIS INVOICE SWAP FUTURE (5YR CBOT) (ZB9903 - CME) vs 2-YEAR T-NOTE (26 - CME)						
Spread Credit Rate	New	+5:+6			70%	70%
ERIS INVOICE SWAP FUTURE (5YR CBOT) (ZB9903 - CME) vs 5-YEAR T-NOTE (25 - CME)						
Spread Credit Rate	New	+1:+1			80%	80%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
ERIS INVOICE SWAP FUTURE (5YR CBOT) (ZB9903 - CME) vs U.S. TREASURY BOND (17 - CME)						
Spread Credit Rate	New	+3:+1			60%	60%
ERIS INVOICE SWAP FUTURE (5YR CBOT) (ZB9903 - CME) vs ULTRA LONG TREASURY BOND (UBE - CME)						
Spread Credit Rate	New	+5:+1			50%	50%
ERIS INVOICE SWAP FUTURE (5YR CBOT) (ZB9906 - CME) vs 10-YEAR T-NOTE (21 - CME)						
Spread Credit Rate	New	+3:+2			70%	70%
ERIS INVOICE SWAP FUTURE (5YR CBOT) (ZB9906 - CME) vs 2-YEAR T-NOTE (26 - CME)						
Spread Credit Rate	New	+5:+6			70%	70%
ERIS INVOICE SWAP FUTURE (5YR CBOT) (ZB9906 - CME) vs 5-YEAR T-NOTE (25 - CME)						
Spread Credit Rate	New	+1:+1			80%	80%
ERIS INVOICE SWAP FUTURE (5YR CBOT) (ZB9906 - CME) vs U.S. TREASURY BOND (17 - CME)						
Spread Credit Rate	New	+3:+1			60%	60%
ERIS INVOICE SWAP FUTURE (5YR CBOT) (ZB9906 - CME) vs ULTRA LONG TREASURY BOND (UBE - CME)						
Spread Credit Rate	New	+5:+1			50%	50%
ERIS INVOICE SWAP FUTURE (5YR CBOT) (ZB9909 - CME) vs 10-YEAR T-NOTE (21 - CME)						
Spread Credit Rate	New	+3:+2			70%	70%
ERIS INVOICE SWAP FUTURE (5YR CBOT) (ZB9909 - CME) vs 2-YEAR T-NOTE (26 - CME)						
Spread Credit Rate	New	+5:+6			70%	70%
ERIS INVOICE SWAP FUTURE (5YR CBOT) (ZB9909 - CME) vs 5-YEAR T-NOTE (25 - CME)						
Spread Credit Rate	New	+1:+1			80%	80%
ERIS INVOICE SWAP FUTURE (5YR CBOT) (ZB9909 - CME) vs U.S. TREASURY BOND (17 - CME)						
Spread Credit Rate	New	+3:+1			60%	60%
ERIS INVOICE SWAP FUTURE (5YR CBOT) (ZB9909 - CME) vs ULTRA LONG TREASURY BOND (UBE - CME)						
Spread Credit Rate	New	+5:+1			50%	50%
ERIS INVOICE SWAP FUTURE (5YR CBOT) (ZB9912 - CME) vs 10-YEAR T-NOTE (21 - CME)						
Spread Credit Rate	New	+3:+2			70%	70%
ERIS INVOICE SWAP FUTURE (5YR CBOT) (ZB9912 - CME) vs 2-YEAR T-NOTE (26 - CME)						
Spread Credit Rate	New	+5:+6			70%	70%
ERIS INVOICE SWAP FUTURE (5YR CBOT) (ZB9912 - CME) vs 5-YEAR T-NOTE (25 - CME)						
Spread Credit Rate	New	+1:+1			80%	80%
ERIS INVOICE SWAP FUTURE (5YR CBOT) (ZB9912 - CME) vs U.S. TREASURY BOND (17 - CME)						
Spread Credit Rate	New	+3:+1			60%	60%
ERIS INVOICE SWAP FUTURE (5YR CBOT) (ZB9912 - CME) vs ULTRA LONG TREASURY BOND (UBE - CME)						
Spread Credit Rate	New	+5:+1			50%	50%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
ERIS INVOICE SWAP FUTURE (LONG BOND/17 CBOT) (ZD9903 - CME) vs 10-YEAR T-NOTE (21 - CME)						
Spread Credit Rate	New	+3:+5			60%	60%
ERIS INVOICE SWAP FUTURE (LONG BOND/17 CBOT) (ZD9903 - CME) vs 5-YEAR T-NOTE (25 - CME)						
Spread Credit Rate	New	+1:+3			50%	50%
ERIS INVOICE SWAP FUTURE (LONG BOND/17 CBOT) (ZD9903 - CME) vs U.S. TREASURY BOND (17 - CME)						
Spread Credit Rate	New	+1:+1			65%	65%
ERIS INVOICE SWAP FUTURE (LONG BOND/17 CBOT) (ZD9903 - CME) vs ULTRA LONG TREASURY BOND (UBE - CME)						
Spread Credit Rate	New	+1:+1			70%	70%
ERIS INVOICE SWAP FUTURE (LONG BOND/17 CBOT) (ZD9906 - CME) vs 10-YEAR T-NOTE (21 - CME)						
Spread Credit Rate	New	+3:+5			60%	60%
ERIS INVOICE SWAP FUTURE (LONG BOND/17 CBOT) (ZD9906 - CME) vs 5-YEAR T-NOTE (25 - CME)						
Spread Credit Rate	New	+1:+3			50%	50%
ERIS INVOICE SWAP FUTURE (LONG BOND/17 CBOT) (ZD9906 - CME) vs U.S. TREASURY BOND (17 - CME)						
Spread Credit Rate	New	+1:+1			65%	65%
ERIS INVOICE SWAP FUTURE (LONG BOND/17 CBOT) (ZD9906 - CME) vs ULTRA LONG TREASURY BOND (UBE - CME)						
Spread Credit Rate	New	+1:+1			70%	70%
ERIS INVOICE SWAP FUTURE (LONG BOND/17 CBOT) (ZD9909 - CME) vs 10-YEAR T-NOTE (21 - CME)						
Spread Credit Rate	New	+3:+5			60%	60%
ERIS INVOICE SWAP FUTURE (LONG BOND/17 CBOT) (ZD9909 - CME) vs 5-YEAR T-NOTE (25 - CME)						
Spread Credit Rate	New	+1:+3			50%	50%
ERIS INVOICE SWAP FUTURE (LONG BOND/17 CBOT) (ZD9909 - CME) vs U.S. TREASURY BOND (17 - CME)						
Spread Credit Rate	New	+1:+1			65%	65%
ERIS INVOICE SWAP FUTURE (LONG BOND/17 CBOT) (ZD9909 - CME) vs ULTRA LONG TREASURY BOND (UBE - CME)						
Spread Credit Rate	New	+1:+1			70%	70%
ERIS INVOICE SWAP FUTURE (LONG BOND/17 CBOT) (ZD9912 - CME) vs 10-YEAR T-NOTE (21 - CME)						
Spread Credit Rate	New	+3:+5			60%	60%
ERIS INVOICE SWAP FUTURE (LONG BOND/17 CBOT) (ZD9912 - CME) vs 5-YEAR T-NOTE (25 - CME)						
Spread Credit Rate	New	+1:+3			50%	50%
ERIS INVOICE SWAP FUTURE (LONG BOND/17 CBOT) (ZD9912 - CME) vs U.S. TREASURY BOND (17 - CME)						
Spread Credit Rate	New	+1:+1			65%	65%
ERIS INVOICE SWAP FUTURE (LONG BOND/17 CBOT) (ZD9912 - CME) vs ULTRA LONG TREASURY BOND (UBE - CME)						
Spread Credit Rate	New	+1:+1			70%	70%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
ERIS INVOICE SWAP FUTURE (ULTRA/UBE CBOT) (ZD9803 - CME) vs 10-YEAR T-NOTE (21 - CME)						
Spread Credit Rate	New	+3:+5			60%	60%
ERIS INVOICE SWAP FUTURE (ULTRA/UBE CBOT) (ZD9803 - CME) vs 5-YEAR T-NOTE (25 - CME)						
Spread Credit Rate	New	+1:+3			50%	50%
ERIS INVOICE SWAP FUTURE (ULTRA/UBE CBOT) (ZD9803 - CME) vs U.S. TREASURY BOND (17 - CME)						
Spread Credit Rate	New	+1:+1			65%	65%
ERIS INVOICE SWAP FUTURE (ULTRA/UBE CBOT) (ZD9803 - CME) vs ULTRA LONG TREASURY BOND (UBE - CME)						
Spread Credit Rate	New	+1:+1			70%	70%
ERIS INVOICE SWAP FUTURE (ULTRA/UBE CBOT) (ZD9806 - CME) vs 10-YEAR T-NOTE (21 - CME)						
Spread Credit Rate	New	+3:+5			60%	60%
ERIS INVOICE SWAP FUTURE (ULTRA/UBE CBOT) (ZD9806 - CME) vs 5-YEAR T-NOTE (25 - CME)						
Spread Credit Rate	New	+1:+3			50%	50%
ERIS INVOICE SWAP FUTURE (ULTRA/UBE CBOT) (ZD9806 - CME) vs U.S. TREASURY BOND (17 - CME)						
Spread Credit Rate	New	+1:+1			65%	65%
ERIS INVOICE SWAP FUTURE (ULTRA/UBE CBOT) (ZD9806 - CME) vs ULTRA LONG TREASURY BOND (UBE - CME)						
Spread Credit Rate	New	+1:+1			70%	70%
ERIS INVOICE SWAP FUTURE (ULTRA/UBE CBOT) (ZD9809 - CME) vs 10-YEAR T-NOTE (21 - CME)						
Spread Credit Rate	New	+3:+5			60%	60%
ERIS INVOICE SWAP FUTURE (ULTRA/UBE CBOT) (ZD9809 - CME) vs 5-YEAR T-NOTE (25 - CME)						
Spread Credit Rate	New	+1:+3			50%	50%
ERIS INVOICE SWAP FUTURE (ULTRA/UBE CBOT) (ZD9809 - CME) vs U.S. TREASURY BOND (17 - CME)						
Spread Credit Rate	New	+1:+1			65%	65%
ERIS INVOICE SWAP FUTURE (ULTRA/UBE CBOT) (ZD9809 - CME) vs ULTRA LONG TREASURY BOND (UBE - CME)						
Spread Credit Rate	New	+1:+1			70%	70%
ERIS INVOICE SWAP FUTURE (ULTRA/UBE CBOT) (ZD9812 - CME) vs 10-YEAR T-NOTE (21 - CME)						
Spread Credit Rate	New	+3:+5			60%	60%
ERIS INVOICE SWAP FUTURE (ULTRA/UBE CBOT) (ZD9812 - CME) vs 5-YEAR T-NOTE (25 - CME)						
Spread Credit Rate	New	+1:+3			50%	50%
ERIS INVOICE SWAP FUTURE (ULTRA/UBE CBOT) (ZD9812 - CME) vs U.S. TREASURY BOND (17 - CME)						
Spread Credit Rate	New	+1:+1			65%	65%
ERIS INVOICE SWAP FUTURE (ULTRA/UBE CBOT) (ZD9812 - CME) vs ULTRA LONG TREASURY BOND (UBE - CME)						
Spread Credit Rate	New	+1:+1			70%	70%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
ERIS Standards - Inter-commodity Spread Rates						
10YR INTEREST RATE SWAP FUTURE ERIS vs 10YR TREASURY						
Spread Credit Rate	Decrease	+1:+1	80%	80%	75%	75%
10YR INTEREST RATE SWAP FUTURE ERIS vs 5YR TREASURY						
Spread Credit Rate	Decrease	+2:+3	70%	70%	60%	60%
30YR INTEREST RATE SWAP FUTURE ERIS vs 10YR TREASURY						
Spread Credit Rate	Decrease	+3:+5	70%	70%	60%	60%
30YR INTEREST RATE SWAP FUTURE ERIS vs 2YR TREASURY						
Spread Credit Rate	Decrease	+1:+3	20%	20%	0%	0%
30YR INTEREST RATE SWAP FUTURE ERIS vs 30YR TREASURY						
Spread Credit Rate	Decrease	+1:+1	70%	70%	65%	65%
ETHANOL - Inter-commodity Spread Rates						
CHICAGO ETHANOL (PLATTS) SWAP FUTURES (NY-CU - CME) vs NY ETHANOL (PLATTS) SWAP FUTURES (NY-EZ - CME)						
Spread Credit Rate	Decrease	+1:-1	80%	80%	75%	75%
ETHANOL (EH - CME) vs NY ETHANOL (PLATTS) SWAP FUTURES (NY-EZ - CME)						
Spread Credit Rate	Decrease	+3:-2	75%	75%	70%	70%
FX - Inter-commodity Spread Rates						
EURO FX (EC - CME) vs GOLD FUTURES (CX-GC - CME)						
Spread Credit Rate	Increase	+1:-1	0%	0%	25%	25%
GOLD FUTURES (CX-GC - CME) vs BRITISH POUND (BP - CME)						
Spread Credit Rate	Increase	+1:-1	0%	0%	25%	25%
NIKKEI 225 DOLLAR-BASED (NK - CME) vs JAPANESE YEN (JY - 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						
INTEREST RATES - Inter-commodity Spread Rates						
10YR INTEREST RATE SWAP FUTURE ERIS vs 10YR TREASURY						
Spread Credit Rate	Decrease	+1:1	80%	80%	75%	75%
10YR INTEREST RATE SWAP FUTURE ERIS vs 5YR TREASURY						
Spread Credit Rate	Decrease	+2:3	70%	70%	60%	60%
30YR INTEREST RATE SWAP FUTURE ERIS vs 10YR TREASURY						
Spread Credit Rate	Decrease	+3:5	70%	70%	60%	60%
30YR INTEREST RATE SWAP FUTURE ERIS vs 2YR TREASURY						
Spread Credit Rate	Decrease	+1:3	20%	20%	0%	0%
30YR INTEREST RATE SWAP FUTURE ERIS vs 30YR TREASURY						
Spread Credit Rate	Decrease	+1:1	70%	70%	65%	65%
ERIS INVOICE SWAP FUTURE (10 YR CBOT) (ZC9906 - CME) vs 10-YEAR T-NOTE (21 - CME)						
Spread Credit Rate	New	+1:1			75%	75%
ERIS INVOICE SWAP FUTURE (10 YR CBOT) (ZC9906 - CME) vs 5-YEAR T-NOTE (25 - CME)						
Spread Credit Rate	New	+2:3			60%	60%
ERIS INVOICE SWAP FUTURE (10 YR CBOT) (ZC9906 - CME) vs U.S. TREASURY BOND (17 - CME)						
Spread Credit Rate	New	+5:3			70%	70%
ERIS INVOICE SWAP FUTURE (10 YR CBOT) (ZC9906 - CME) vs ULTRA LONG TREASURY BOND (UBE - CME)						
Spread Credit Rate	New	+5:2			60%	60%
ERIS INVOICE SWAP FUTURE (10YR CBOT) (ZC9903 - CME) vs 10-YEAR T-NOTE (21 - CME)						
Spread Credit Rate	New	+1:1			75%	75%
ERIS INVOICE SWAP FUTURE (10YR CBOT) (ZC9903 - CME) vs 5-YEAR T-NOTE (25 - CME)						
Spread Credit Rate	New	+2:3			60%	60%
ERIS INVOICE SWAP FUTURE (10YR CBOT) (ZC9903 - CME) vs U.S. TREASURY BOND (17 - CME)						
Spread Credit Rate	New	+5:3			70%	70%
ERIS INVOICE SWAP FUTURE (10YR CBOT) (ZC9903 - CME) vs ULTRA LONG TREASURY BOND (UBE - CME)						
Spread Credit Rate	New	+5:2			60%	60%
ERIS INVOICE SWAP FUTURE (10YR CBOT) (ZC9909 - CME) vs 10-YEAR T-NOTE (21 - CME)						
Spread Credit Rate	New	+1:1			75%	75%
ERIS INVOICE SWAP FUTURE (10YR CBOT) (ZC9909 - CME) vs 5-YEAR T-NOTE (25 - CME)						
Spread Credit Rate	New	+2:3			60%	60%
ERIS INVOICE SWAP FUTURE (10YR CBOT) (ZC9909 - CME) vs U.S. TREASURY BOND (17 - CME)						
Spread Credit Rate	New	+5:3			70%	70%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
ERIS INVOICE SWAP FUTURE (10YR CBOT) (ZC9909 - CME) vs ULTRA LONG TREASURY BOND (UBE - CME)						
Spread Credit Rate	New	+5:+2			60%	60%
ERIS INVOICE SWAP FUTURE (10YR CBOT) (ZC9912 - CME) vs 10-YEAR T-NOTE (21 - CME)						
Spread Credit Rate	New	+1:+1			75%	75%
ERIS INVOICE SWAP FUTURE (10YR CBOT) (ZC9912 - CME) vs 5-YEAR T-NOTE (25 - CME)						
Spread Credit Rate	New	+2:+3			60%	60%
ERIS INVOICE SWAP FUTURE (10YR CBOT) (ZC9912 - CME) vs U.S. TREASURY BOND (17 - CME)						
Spread Credit Rate	New	+5:+3			70%	70%
ERIS INVOICE SWAP FUTURE (10YR CBOT) (ZC9912 - CME) vs ULTRA LONG TREASURY BOND (UBE - CME)						
Spread Credit Rate	New	+5:+2			60%	60%
ERIS INVOICE SWAP FUTURE (2YR CBOT) (ZA9903 - CME) vs 10-YEAR T-NOTE (21 - CME)						
Spread Credit Rate	New	+4:+1			50%	50%
ERIS INVOICE SWAP FUTURE (2YR CBOT) (ZA9903 - CME) vs 2-YEAR T-NOTE (26 - CME)						
Spread Credit Rate	New	+2:+1			70%	70%
ERIS INVOICE SWAP FUTURE (2YR CBOT) (ZA9903 - CME) vs 5-YEAR T-NOTE (25 - CME)						
Spread Credit Rate	New	+6:+5			60%	60%
ERIS INVOICE SWAP FUTURE (2YR CBOT) (ZA9906 - CME) vs 10-YEAR T-NOTE (21 - CME)						
Spread Credit Rate	New	+4:+1			50%	50%
ERIS INVOICE SWAP FUTURE (2YR CBOT) (ZA9906 - CME) vs 2-YEAR T-NOTE (26 - CME)						
Spread Credit Rate	New	+2:+1			70%	70%
ERIS INVOICE SWAP FUTURE (2YR CBOT) (ZA9906 - CME) vs 5-YEAR T-NOTE (25 - CME)						
Spread Credit Rate	New	+6:+5			60%	60%
ERIS INVOICE SWAP FUTURE (2YR CBOT) (ZA9909 - CME) vs 10-YEAR T-NOTE (21 - CME)						
Spread Credit Rate	New	+4:+1			50%	50%
ERIS INVOICE SWAP FUTURE (2YR CBOT) (ZA9909 - CME) vs 2-YEAR T-NOTE (26 - CME)						
Spread Credit Rate	New	+2:+1			70%	70%
ERIS INVOICE SWAP FUTURE (2YR CBOT) (ZA9909 - CME) vs 5-YEAR T-NOTE (25 - CME)						
Spread Credit Rate	New	+6:+5			60%	60%
ERIS INVOICE SWAP FUTURE (2YR CBOT) (ZA9912 - CME) vs 10-YEAR T-NOTE (21 - CME)						
Spread Credit Rate	New	+4:+1			50%	50%
ERIS INVOICE SWAP FUTURE (2YR CBOT) (ZA9912 - CME) vs 2-YEAR T-NOTE (26 - CME)						
Spread Credit Rate	New	+2:+1			70%	70%
ERIS INVOICE SWAP FUTURE (2YR CBOT) (ZA9912 - CME) vs 5-YEAR T-NOTE (25 - CME)						
Spread Credit Rate	New	+6:+5			60%	60%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
ERIS INVOICE SWAP FUTURE (5YR CBOT) (ZB9903 - CME) vs 10-YEAR T-NOTE (21 - CME)						
Spread Credit Rate	New	+3:+2			70%	70%
ERIS INVOICE SWAP FUTURE (5YR CBOT) (ZB9903 - CME) vs 2-YEAR T-NOTE (26 - CME)						
Spread Credit Rate	New	+5:+6			70%	70%
ERIS INVOICE SWAP FUTURE (5YR CBOT) (ZB9903 - CME) vs 5-YEAR T-NOTE (25 - CME)						
Spread Credit Rate	New	+1:+1			80%	80%
ERIS INVOICE SWAP FUTURE (5YR CBOT) (ZB9903 - CME) vs U.S. TREASURY BOND (17 - CME)						
Spread Credit Rate	New	+3:+1			60%	60%
ERIS INVOICE SWAP FUTURE (5YR CBOT) (ZB9903 - CME) vs ULTRA LONG TREASURY BOND (UBE - CME)						
Spread Credit Rate	New	+5:+1			50%	50%
ERIS INVOICE SWAP FUTURE (5YR CBOT) (ZB9906 - CME) vs 10-YEAR T-NOTE (21 - CME)						
Spread Credit Rate	New	+3:+2			70%	70%
ERIS INVOICE SWAP FUTURE (5YR CBOT) (ZB9906 - CME) vs 2-YEAR T-NOTE (26 - CME)						
Spread Credit Rate	New	+5:+6			70%	70%
ERIS INVOICE SWAP FUTURE (5YR CBOT) (ZB9906 - CME) vs 5-YEAR T-NOTE (25 - CME)						
Spread Credit Rate	New	+1:+1			80%	80%
ERIS INVOICE SWAP FUTURE (5YR CBOT) (ZB9906 - CME) vs U.S. TREASURY BOND (17 - CME)						
Spread Credit Rate	New	+3:+1			60%	60%
ERIS INVOICE SWAP FUTURE (5YR CBOT) (ZB9906 - CME) vs ULTRA LONG TREASURY BOND (UBE - CME)						
Spread Credit Rate	New	+5:+1			50%	50%
ERIS INVOICE SWAP FUTURE (5YR CBOT) (ZB9909 - CME) vs 10-YEAR T-NOTE (21 - CME)						
Spread Credit Rate	New	+3:+2			70%	70%
ERIS INVOICE SWAP FUTURE (5YR CBOT) (ZB9909 - CME) vs 2-YEAR T-NOTE (26 - CME)						
Spread Credit Rate	New	+5:+6			70%	70%
ERIS INVOICE SWAP FUTURE (5YR CBOT) (ZB9909 - CME) vs 5-YEAR T-NOTE (25 - CME)						
Spread Credit Rate	New	+1:+1			80%	80%
ERIS INVOICE SWAP FUTURE (5YR CBOT) (ZB9909 - CME) vs U.S. TREASURY BOND (17 - CME)						
Spread Credit Rate	New	+3:+1			60%	60%
ERIS INVOICE SWAP FUTURE (5YR CBOT) (ZB9909 - CME) vs ULTRA LONG TREASURY BOND (UBE - CME)						
Spread Credit Rate	New	+5:+1			50%	50%
ERIS INVOICE SWAP FUTURE (5YR CBOT) (ZB9912 - CME) vs 10-YEAR T-NOTE (21 - CME)						
Spread Credit Rate	New	+3:+2			70%	70%
ERIS INVOICE SWAP FUTURE (5YR CBOT) (ZB9912 - CME) vs 2-YEAR T-NOTE (26 - CME)						
Spread Credit Rate	New	+5:+6			70%	70%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
ERIS INVOICE SWAP FUTURE (5YR CBOT) (ZB9912 - CME) vs 5-YEAR T-NOTE (25 - CME)						
Spread Credit Rate	New	+1:+1			80%	80%
ERIS INVOICE SWAP FUTURE (5YR CBOT) (ZB9912 - CME) vs U.S. TREASURY BOND (17 - CME)						
Spread Credit Rate	New	+3:+1			60%	60%
ERIS INVOICE SWAP FUTURE (5YR CBOT) (ZB9912 - CME) vs ULTRA LONG TREASURY BOND (UBE - CME)						
Spread Credit Rate	New	+5:+1			50%	50%
ERIS INVOICE SWAP FUTURE (LONG BOND/17 CBOT) (ZD9903 - CME) vs 10-YEAR T-NOTE (21 - CME)						
Spread Credit Rate	New	+3:+5			60%	60%
ERIS INVOICE SWAP FUTURE (LONG BOND/17 CBOT) (ZD9903 - CME) vs 5-YEAR T-NOTE (25 - CME)						
Spread Credit Rate	New	+1:+3			50%	50%
ERIS INVOICE SWAP FUTURE (LONG BOND/17 CBOT) (ZD9903 - CME) vs U.S. TREASURY BOND (17 - CME)						
Spread Credit Rate	New	+1:+1			65%	65%
ERIS INVOICE SWAP FUTURE (LONG BOND/17 CBOT) (ZD9903 - CME) vs ULTRA LONG TREASURY BOND (UBE - CME)						
Spread Credit Rate	New	+1:+1			70%	70%
ERIS INVOICE SWAP FUTURE (LONG BOND/17 CBOT) (ZD9906 - CME) vs 10-YEAR T-NOTE (21 - CME)						
Spread Credit Rate	New	+3:+5			60%	60%
ERIS INVOICE SWAP FUTURE (LONG BOND/17 CBOT) (ZD9906 - CME) vs 5-YEAR T-NOTE (25 - CME)						
Spread Credit Rate	New	+1:+3			50%	50%
ERIS INVOICE SWAP FUTURE (LONG BOND/17 CBOT) (ZD9906 - CME) vs U.S. TREASURY BOND (17 - CME)						
Spread Credit Rate	New	+1:+1			65%	65%
ERIS INVOICE SWAP FUTURE (LONG BOND/17 CBOT) (ZD9906 - CME) vs ULTRA LONG TREASURY BOND (UBE - CME)						
Spread Credit Rate	New	+1:+1			70%	70%
ERIS INVOICE SWAP FUTURE (LONG BOND/17 CBOT) (ZD9909 - CME) vs 10-YEAR T-NOTE (21 - CME)						
Spread Credit Rate	New	+3:+5			60%	60%
ERIS INVOICE SWAP FUTURE (LONG BOND/17 CBOT) (ZD9909 - CME) vs 5-YEAR T-NOTE (25 - CME)						
Spread Credit Rate	New	+1:+3			50%	50%
ERIS INVOICE SWAP FUTURE (LONG BOND/17 CBOT) (ZD9909 - CME) vs U.S. TREASURY BOND (17 - CME)						
Spread Credit Rate	New	+1:+1			65%	65%
ERIS INVOICE SWAP FUTURE (LONG BOND/17 CBOT) (ZD9909 - CME) vs ULTRA LONG TREASURY BOND (UBE - CME)						
Spread Credit Rate	New	+1:+1			70%	70%
ERIS INVOICE SWAP FUTURE (LONG BOND/17 CBOT) (ZD9912 - CME) vs 10-YEAR T-NOTE (21 - CME)						
Spread Credit Rate	New	+3:+5			60%	60%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
ERIS INVOICE SWAP FUTURE (LONG BOND/17 CBOT) (ZD9912 - CME) vs 5-YEAR T-NOTE (25 - CME)						
Spread Credit Rate	New	+1:+3			50%	50%
ERIS INVOICE SWAP FUTURE (LONG BOND/17 CBOT) (ZD9912 - CME) vs U.S. TREASURY BOND (17 - CME)						
Spread Credit Rate	New	+1:+1			65%	65%
ERIS INVOICE SWAP FUTURE (LONG BOND/17 CBOT) (ZD9912 - CME) vs ULTRA LONG TREASURY BOND (UBE - CME)						
Spread Credit Rate	New	+1:+1			70%	70%
ERIS INVOICE SWAP FUTURE (ULTRA/UBE CBOT) (ZD9803 - CME) vs 10-YEAR T-NOTE (21 - CME)						
Spread Credit Rate	New	+3:+5			60%	60%
ERIS INVOICE SWAP FUTURE (ULTRA/UBE CBOT) (ZD9803 - CME) vs 5-YEAR T-NOTE (25 - CME)						
Spread Credit Rate	New	+1:+3			50%	50%
ERIS INVOICE SWAP FUTURE (ULTRA/UBE CBOT) (ZD9803 - CME) vs U.S. TREASURY BOND (17 - CME)						
Spread Credit Rate	New	+1:+1			65%	65%
ERIS INVOICE SWAP FUTURE (ULTRA/UBE CBOT) (ZD9803 - CME) vs ULTRA LONG TREASURY BOND (UBE - CME)						
Spread Credit Rate	New	+1:+1			70%	70%
ERIS INVOICE SWAP FUTURE (ULTRA/UBE CBOT) (ZD9806 - CME) vs 10-YEAR T-NOTE (21 - CME)						
Spread Credit Rate	New	+3:+5			60%	60%
ERIS INVOICE SWAP FUTURE (ULTRA/UBE CBOT) (ZD9806 - CME) vs 5-YEAR T-NOTE (25 - CME)						
Spread Credit Rate	New	+1:+3			50%	50%
ERIS INVOICE SWAP FUTURE (ULTRA/UBE CBOT) (ZD9806 - CME) vs U.S. TREASURY BOND (17 - CME)						
Spread Credit Rate	New	+1:+1			65%	65%
ERIS INVOICE SWAP FUTURE (ULTRA/UBE CBOT) (ZD9806 - CME) vs ULTRA LONG TREASURY BOND (UBE - CME)						
Spread Credit Rate	New	+1:+1			70%	70%
ERIS INVOICE SWAP FUTURE (ULTRA/UBE CBOT) (ZD9809 - CME) vs 10-YEAR T-NOTE (21 - CME)						
Spread Credit Rate	New	+3:+5			60%	60%
ERIS INVOICE SWAP FUTURE (ULTRA/UBE CBOT) (ZD9809 - CME) vs 5-YEAR T-NOTE (25 - CME)						
Spread Credit Rate	New	+1:+3			50%	50%
ERIS INVOICE SWAP FUTURE (ULTRA/UBE CBOT) (ZD9809 - CME) vs U.S. TREASURY BOND (17 - CME)						
Spread Credit Rate	New	+1:+1			65%	65%
ERIS INVOICE SWAP FUTURE (ULTRA/UBE CBOT) (ZD9809 - CME) vs ULTRA LONG TREASURY BOND (UBE - CME)						
Spread Credit Rate	New	+1:+1			70%	70%
ERIS INVOICE SWAP FUTURE (ULTRA/UBE CBOT) (ZD9812 - CME) vs 10-YEAR T-NOTE (21 - CME)						
Spread Credit Rate	New	+3:+5			60%	60%
ERIS INVOICE SWAP FUTURE (ULTRA/UBE CBOT) (ZD9812 - CME) vs 5-YEAR T-NOTE (25 - CME)						
Spread Credit Rate	New	+1:+3			50%	50%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
ERIS INVOICE SWAP FUTURE (ULTRA/UBE CBOT) (ZD9812 - CME) vs U.S. TREASURY BOND (17 - CME)						
Spread Credit Rate	New	+1:+1			65%	65%
ERIS INVOICE SWAP FUTURE (ULTRA/UBE CBOT) (ZD9812 - CME) vs ULTRA LONG TREASURY BOND (UBE - CME)						
Spread Credit Rate	New	+1:+1			70%	70%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	Change	Ratio	Current Initial	Current Maintenance	New Initial	New Maintenance
Inter-commodity Spread Rates						
METALS - Inter-commodity Spread Rates						
ALUMINUM FUTURES (CX-ALI - CME) vs COAL (API 2) CIF ARA (ARGUS/MCCLOSKEY) SWAP FUTURES (NY-MTF - CME)						
Spread Credit Rate	New	+1:-1			20%	20%
ALUMINUM FUTURES (CX-ALI - CME) vs IRON ORE 58% FE, LOW ALUMINA, CFR CHINA (TSI) FUTURES (NY-TIC - CME)						
Spread Credit Rate	New	+1:-1			20%	20%
ALUMINUM FUTURES (CX-ALI - CME) vs IRON ORE FUTURES (NY-TIO - CME)						
Spread Credit Rate	New	+1:-1			30%	30%
ALUMINUM FUTURES (CX-ALI - CME) vs PLATINUM FUTURES (NY-PL - CME)						
Spread Credit Rate	Increase	+1:-1	30%	30%	40%	40%
ALUMINUM FUTURES (CX-ALI - CME) vs SILVER FUTURES (CX-SI - CME)						
Spread Credit Rate	Increase	+1:-1	20%	20%	30%	30%
ALUMINUM MW US TRANSACTION PREMIUM PLATTS (25MT) SWAP FUTURES (CX-AUP - CME) vs LEAD FUTURES (CX-LED - CME)						
Spread Credit Rate	New	+1:-1			20%	20%
EURO FX (EC - CME) vs GOLD FUTURES (CX-GC - CME)						
Spread Credit Rate	Increase	+1:-1	0%	0%	25%	25%
GOLD FUTURES (CX-GC - CME) vs BRITISH POUND (BP - CME)						
Spread Credit Rate	Increase	+1:-1	0%	0%	25%	25%
IRON ORE FUTURES (NY-TIO - CME) vs COPPER FUTURES (CX-HG - CME)						
Spread Credit Rate	New	+1:+1			30%	30%
IRON ORE FUTURES (NY-TIO - CME) vs PALLADIUM FUTURES (NY-PA - CME)						
Spread Credit Rate	New	+1:+1			20%	20%
ZINC FUTURES (CX-ZNC - CME) vs ALUMINUM FUTURES (CX-ALI - CME)						
Spread Credit Rate	Decrease	+1:-1	55%	55%	50%	50%
ZINC FUTURES (CX-ZNC - CME) vs COPPER FUTURES (CX-HG - CME)						
Spread Credit Rate	New	+1:-1			45%	45%
ZINC FUTURES (CX-ZNC - CME) vs IRON ORE 58% FE, LOW ALUMINA, CFR CHINA (TSI) FUTURES (NY-TIC - CME)						
Spread Credit Rate	New	+1:-1			20%	20%
ZINC FUTURES (CX-ZNC - CME) vs IRON ORE FUTURES (NY-TIO - CME)						
Spread Credit Rate	New	+1:-1			40%	40%

SPAN MINIMUM PERFORMANCE BOND REQUIREMENTS

Rate Type	<u>Tier Description</u>	Change	Current Initial	Current Maintenance	New Initial	New Maintenance
Volatility Scan (volScan) Rate						
NATURAL GAS - Volatility Scan (volScan) Rate						
SOUTHERN NATURAL, LOUISIANA NATURAL GAS INDEX SWAP (PLATTS GAS DAILY/PLATTS IFERC) FUTURES (M8) - volScan						
Clearing Member Rate	Mnths 3+	New				0.025
WAHA NATURAL GAS INDEX (PLATTS GAS DAILY / PLATTS IFERC) FUTURES (1Y) - volScan						
Clearing Member Rate	Mths 3+	New				0.035

Splitting Methodology					
CC	Name	Child Product	Child Product Name	Current Splitting	New Splitting
CC6	CORN CALENDAR OPTION - OLD/NEW CROP	CCZ	DEC-DEC CORN CSO	Split	Modified Split
PYC	CORN CALENDAR OPTION - SAME CROP	8CC	DEC-JULY CORN CSO	Split	Modified Split
KC3	KC HRW MAR-JUL CSO	KC3	KC HRW MAR-JULY WHEAT CSO	Split	Modified Split
K7C	KC HRW CONSECUTIVE CSO	K7C	KC HRW CALENDAR SPREAD OPTION	Split	Modified Split
CW3	MAR-JUL WHEAT CSO	CW3	MAR-JULY WHEAT CSO	Split	Modified Split
SC5	SOYBEAN CALENDAR OPTION - OLD/NEW CROP	SC5	SOYBEAN OLD/NEW CROP CLANDR SPREAD	Split	Modified Split
7CC	MAR-JUL CORN CSO	7CC	MAR-JULY CORN CSO	Split	Modified Split
WZC	WHEAT CALENDAR OPTION - SAME CROP	CWM	JULY-DEC WHEAT CSO	Split	Modified Split
CC6	CORN CALENDAR OPTION - OLD/NEW CROP	CC6	CORN OLD/NEW CROP CALENDAR SPREAD	Split	Modified Split
WZC	WHEAT CALENDAR OPTION - SAME CROP	WZC	WHEAT NEW CROP CALENDAR SPREAD	Split	Modified Split
PYC	CORN CALENDAR OPTION - SAME CROP	PYC	CORN NEW CROP CALENDAR SPREAD	Split	Modified Split
NY-8SS	SEMI-ANNUAL STRIP FOR CRUDE OIL SNT	6Y	CRUDE OIL OPTIONS SEMI ANNUAL	Modified Split	Split
NY-8T	CRUDE OIL COMBO ON QUARTERLY STRIP	6E	CRUDE OIL OPTIONS ON QUARTERLY STRP	Modified Split	Split
NY-BPS	BRENT OPTION ON CALENDAR FUTURES STRIP	BPC	BRENT OPTIONS ON CAL FUR STRIP	Modified Split	Split