SUBMISSION COVER SHEET							
IMPORTANT: Check box if Confidential Treatment is requested Registered Entity Identifier Code (optional): 22-472							
Organization: The Board of Trade of the City of Chicago,	Inc. ("CBOT")						
Filing as a: DCM SEF DCO	SDR						
Please note - only ONE choice allowed.							
Filing Date (mm/dd/yy): 10/27/22 Filing Description: Inc							
Month Position Limits for the Bloomberg Commodity Inde	x Futures Contract.						
SPECIFY FILING TYPE Please note only ONE choice allowed per Submission.							
Organization Rules and Rule Amendments							
	9.40.6()						
Certification	§ 40.6(a)						
Approval	§ 40.5(a)						
Notification	§ 40.6(d)						
Advance Notice of SIDCO Rule Change	§ 40.10(a)						
SIDCO Emergency Rule Change	§ 40.10(h)						
Rule Numbers:							
New Product Please note only ONE	product per Submission.						
Certification	§ 40.2(a)						
Certification Security Futures	§ 41.23(a)						
Certification Swap Class	§ 40.2(d)						
Approval	§ 40.3(a)						
Approval Security Futures	§ 41.23(b)						
Novel Derivative Product Notification	§ 40.12(a)						
Swap Submission	§ 39.5						
Official Product Name: Product Terms and Conditions (product related Rules and	Dula Amandmanta)						
Certification	§ 40.6(a)						
Certification Made Available to Trade Determination	§ 40.6(a)						
Certification Security Futures	§ 41.24(a)						
Delisting (No Open Interest)	§ 40.6(a)						
Approval	§ 40.5(a)						
Approval Made Available to Trade Determination	§ 40.5(a)						
Approval Security Futures	§ 41.24(c)						
Approval Amendments to enumerated agricultural products	§ 40.4(a), § 40.5(a)						
"Non-Material Agricultural Rule Change"	§ 40.4(b)(5)						
Notification	§ 40.6(d)						
Official Name(s) of Product(s) Affected: See filing. Rule Numbers: See filing.							





October 27, 2022

VIA ELECTRONIC PORTAL

Mr. Christopher J. Kirkpatrick Office of the Secretariat Commodity Futures Trading Commission Three Lafayette Centre 1155 21st Street, N.W. Washington, DC 20581

Re: CFTC Regulation 40.6(a) Certification. Increase of Single Month and All Month

Position Limits for the Bloomberg Commodity Index Futures Contract.

CBOT Submission No. 22-472

Dear Mr. Kirkpatrick:

The Board of Trade of the City of Chicago, Inc. ("CBOT" or "Exchange") certifies to the Commodity Futures Trading Commission ("CFTC" or the "Commission") an increase of the single month and all month position limits for the Bloomberg Commodity Index Futures contract (the "Contract"), effective on November 14, 2022 as more specifically described in the table below.

Contract Title	CME Globex / CME ClearPort Code	Rulebook Chapter	Current Single / All Month Position Limit	Increased Single / All Month Position Limit
Bloomberg Commodity Index Futures	AW / 70	29	52,000	100,000

The Position Limit, Position Accountability and Reportable Level Table and Header Notes located in the Interpretations and Special Notices Section of Chapter 5 of the CBOT Rulebook (the "Table") will be amended to reflect the increased single month and all month position limits of the Contract. Exhibit A reflects the amendments to the Table as of November 15, 2022, the effective date of this submission (collectively, the "Rule Amendments"). Exhibit A is provided in blackline format under separate cover.

Exhibit B provides updated information regarding the Contract's deliverable supply analysis.

The Exchange reviewed the designated contract market core principles ("Core Principles") as set forth in the Commodity Exchange Act ("Act") and identified that the Rule Amendments may have some bearing on the following Core Principles:

<u>Contracts Not Readily Subject to Manipulation</u>: The Contract is not readily subject to manipulation due to the deep liquidity and robustness in the underlying cash and futures markets, which provides diverse participation and are based on liquid futures contract months.

<u>Position Limitations or Accountability</u>: The speculative position limits for the Contract as demonstrated in this submission are consistent with the Commission's guidance.

<u>Availability of General Information</u>: The Exchange will make publicly available the details of the single and all month position limit increases by publishing a Market Surveillance Notice ("MSN") to the market. The MSN will also be available on CME Group's website.

The Exchange certifies that the Rule Amendments comply with the Act and regulations thereunder. There were no opposing views to the amendments to Chapter 5.

The Exchange certifies that this submission has been concurrently posted on the Exchange's website at http://www.cmegroup.com/market-regulation/rule-fillings.html.

Should you have any questions concerning the above, please contact the undersigned at 212-299-2200 or via e-mail at CMEGSubmissionInquiry@cmegroup.com.

Sincerely,

/s/ Christopher Bowen
Managing Director and Chief Regulatory Counsel

Attachments: Exhibit A - Amendments to CBOT Rulebook Chapter 5 Position Limit, Position

Accountability, and Reportable Level Table (attached under separate cover)

Exhibit B – Deliverable Supply Analysis

Exhibit A

CBOT Rulebook Chapter 5

("Trading Qualifications and Practices")
Position Limit, Position Accountability, and Reportable Level Table

(attached under separate cover)

Exhibit B

Deliverable Supply Analysis

Cash Market Overview

The Bloomberg Commodity Index ("BCOM" or "Index") is designed to be a highly liquid and diversified benchmark for commodity investments. BCOM provides broad-based exposure to commodities and no single commodity or sector dominates the Index.¹

BCOM uses both liquidity data and U.S.-dollar-weighted production data in determining the relative quantities of included commodities. BCOM purports to provide diversified exposure to commodities as an asset class. The explicit inclusion of liquidity as a weighting factor helps to ensure that BCOM can accommodate substantial investment flows.

BCOM primarily relies on liquidity data, or the relative amount of trading activity of a particular commodity, as an important indicator of the value placed on that commodity by financial and physical market participants. BCOM also relies on production data as a useful measure of the importance of a commodity to the world economy. Production data alone, however, may underestimate the economic significance of storable commodities (e.g., gold) at the expense of relatively non-storable commodities (e.g., live cattle). Production data alone may also underestimate the investment value that financial market participants place on certain commodities and/or the amount of commercial activity that is centered on various commodities. Accordingly, production statistics alone do not necessarily provide as accurate a reflection of economic importance as the pronouncements of the markets themselves. BCOM thus relies on data that is both endogenous to the futures markets (liquidity) and exogenous to the futures markets (production) in determining relative weightings.

The Index is composed of commodity futures contracts rather than physical commodities. Unlike equities, which typically entitle the holder to a continuing stake in a corporation, commodity futures contracts normally specify a certain date for delivery of the underlying physical commodity. As the exchange-traded futures contracts that compose the Index approach expiration, they are replaced by similar contracts that have a later expiration. Thus, for example, a futures contract purchased and held in August may specify an October expiration date. As time passes, the contract expiring in October may be replaced by a contract for delivery in December. This process is referred to as "rolling."

BCOM and all related subindices are cash settled, and, to avoid the physical delivery of commodities from the underlying futures, the indices roll from current to subsequent contracts during the roll period defined in the methodology, which typically falls within the 6th-10th business day of each month.

Weighted average 1 (WAV1) and weighted average 2 (WAV2) are values used in the calculation of the Index. These values are calculated on the basis of prices for the nearest contract month ("Lead Future") and the next nearest contract month ("Next Future"), respectively. Exhibit 1 below lists the Designated Contract months that are to be used to determine the Lead Future and Next Future for each Index Commodity for this calculation. To illustrate, the Lead Future for Natural Gas Futures in January is March, as is the Next Future, and in February the Lead Future is March and the Next Future is May. Thus, in February, WAV1 will incorporate the price for the March Natural Gas contract, and WAV2 will incorporate the price for the May contract. Note that as a new month begins, the Next Future becomes the Lead Future. Similarly, as a new month begins, the WAV2 from the prior month is redesignated as WAV1.

¹ Explanations of the methodology in this section are adapted and/or copied from BCOM Methodology March 2022 found here: https://assets.bbhub.io/professional/sites/10/BCOM-Methodology-MAR-2022_FINAL.pdf

Exhibit 1: Bloomberg Commodity Index Contract Calendar

Commodity	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Commodity	(F)	(G)	(H)	(J)	(K)	(M)	(N)	(Q)	(U)	(V)	(X)	(Z)
Natural Gas	Mar	Mar	May	May	Jul	Jul	Sep	Sep	Nov	Nov	Jan	Jan
WTI Crude Oil	Mar	Mar	May	May	Jul	Jul	Sep	Sep	Nov	Nov	Jan	Jan
Brent Crude Oil	Mar	May	May	Jul	Jul	Sep	Sep	Nov	Nov	Jan	Jan	Mar
RBOB Gasoline	Mar	Mar	May	May	Jul	Jul	Sep	Sep	Nov	Nov	Jan	Jan
ULS Diesel	Mar	Mar	May	May	Jul	Jul	Sep	Sep	Nov	Nov	Jan	Jan
Live Cattle	Feb	Apr	Apr	Jun	Jun	Aug	Aug	Oct	Oct	Dec	Dec	Feb
Lean Hogs	Feb	Apr	Apr	Jun	Jun	Jul	Aug	Oct	Oct	Dec	Dec	Feb
Wheat (Chicago)	Mar	Mar	May	May	Jul	Jul	Sep	Sep	Dec	Dec	Dec	Mar
Wheat (KC HRW)	Mar	Mar	May	May	Jul	Jul	Sep	Sep	Dec	Dec	Dec	Mar
Corn	Mar	Mar	May	May	Jul	Jul	Sep	Sep	Dec	Dec	Dec	Mar
Soybeans	Mar	Mar	May	May	Jul	Jul	Nov	Nov	Nov	Nov	Jan	Jan
Soybean Oil	Mar	Mar	May	May	Jul	Jul	Dec	Dec	Dec	Dec	Jan	Jan
Soybean Meal	Mar	Mar	May	May	Jul	Jul	Dec	Dec	Dec	Dec	Jan	Jan
Aluminum	Mar	Mar	May	May	Jul	Jul	Sep	Sep	Nov	Nov	Jan	Jan
Copper	Mar	Mar	May	May	Jul	Jul	Sep	Sep	Dec	Dec	Dec	Mar
Zinc	Mar	Mar	May	May	Jul	Jul	Sep	Sep	Nov	Nov	Jan	Jan
Nickel	Mar	Mar	May	May	Jul	Jul	Sep	Sep	Nov	Nov	Jan	Jan
Lead	Mar	Mar	May	May	Jul	Jul	Sep	Sep	Nov	Nov	Jan	Jan
Tin	Mar	Mar	May	May	Jul	Jul	Sep	Sep	Nov	Nov	Jan	Jan
Gold	Feb	Apr	Apr	Jun	Jun	Aug	Aug	Dec	Dec	Dec	Dec	Feb
Silver	Mar	Mar	May	May	Jul	Jul	Sep	Sep	Dec	Dec	Dec	Mar
Platinum	Apr	Apr	Apr	Jul	Jul	Jul	Oct	Oct	Oct	Jan	Jan	Jan
Sugar No.11	Mar	Mar	May	May	Jul	Jul	Oct	Oct	Oct	Mar	Mar	Mar
Cotton No.2	Mar	Mar	May	May	Jul	Jul	Dec	Dec	Dec	Dec	Dec	Mar
Coffee "C"	Mar	Mar	May	May	Jul	Jul	Sep	Sep	Dec	Dec	Dec	Mar
Cocoa	Mar	Mar	May	May	Jul	Jul	Sep	Sep	Dec	Dec	Dec	Mar
Low Sulphur Gas Oil	Mar	Mar	May	May	Jul	Jul	Sep	Sep	Nov	Nov	Jan	Jan
FCOJ	Mar	Mar	May	May	Jul	Jul	Sep	Sep	Nov	Nov	Jan	Jan
Feeder Cattle	Mar	Mar	May	May	Aug	Aug	Aug	Oct	Oct	Jan	Jan	Jan
Palladium	Mar	Mar	Jun	Jun	Jun	Sep	Sep	Sep	Dec	Dec	Dec	Mar

Once the applicable futures month is determined, the price for each commodity used to calculate WAV1 and WAV2 for each business day is obtained and converted into U.S. dollars. Once settlement prices are obtained for the Lead Future and Next Future for each commodity, the WAVs are calculated in respect of each business day as follows: WAV1 is calculated by multiplying each Commodity Index Multiplier ("CIM") by the settlement price for the respective Lead Future for that day and summing the results. WAV2 is calculated by multiplying each CIM by the settlement price for the respective Next Future for that day and summing the results. The WAVs are rounded to 8 decimal places.

The CIMs are determined using the settlement price for each commodity on the fourth business day of each year, weighted against the multiplier from the previous year.

The BCOM settlement price is calculated on each business day using the applicable settlement prices for WAV1 and WAV2 on the current business day and the prior business day. The suffix "_PS" designates the settlement price for the previous business day, and the suffix "_S" designates the settlement price for the current business day. "BCOM_S" indicates the value of BCOM on the current business day. The manner in which BCOM is calculated on a given business day depends on which of three periods during the month in which this day falls: the period prior to the roll period, the roll period, or the period following the roll period.

The "Roll Period" is used in this Methodology to refer to the sixth through tenth business days of every month.

Prior to the Roll Period

On business day 1 of the month, the Index is calculated as follows:

BCOM S= BCOM PS* WAV1 S/WAV2 PS2

On business days 2 through 5 of the month, BCOM is calculated as follows:

BCOM _S= BCOM_PS * WAV1_S / WAV1_PS

During the Roll Period

On each day of the Roll Period, the dependence of BCOM is shifted, at the rate of 20% per day, from WAV1 to WAV2 as follows:

Day 1 of Roll Period (business day 6 of the month):

BCOM_S = BCOM _PS*(WAV1_S*.80 + WAV2_S*.20)/(WAV1_PS * .80+ WAV2_PS*.20)

Day 2 of Roll Period (business day 7 of the month):

 $BCOM_S = BCOM_PS^*(WAV1_S^*.60 + WAV2_S^*.40)/(WAV1_PS^*.60 + WAV2_PS^*.40)$

Day 3 of Roll Period (business day 8 of the month):

BCOM S = BCOM PS*(WAV1 S*.40 + WAV2 S*.60)/(WAV1 PS * .40 + WAV2 PS*.60)

Day 4 of Roll Period (business day 9 of the month):

BCOM S = BCOM PS*(WAV1 S*.20 + WAV2 S*.80)/(WAV1 PS * .20 + WAV2 PS*.80)

Day 5 of Roll Period (business day 10 of the month):

 $BCOM_S = BCOM_PS*(WAV2_S/WAV2_PS)$ (3)

After the Roll Period

For the remainder of the month, the calculation of BCOM will be

BCOM _S = BCOM _PS *(WAV2_S / WAV2_PS)

As the calculation above shows, during the roll period, the value of BCOM is gradually shifted from the utilization of WAV1 for Index calculation to the utilization of WAV2, at the rate of 20% per business day. Upon the 10th business day, the current Lead Future officially rolls off. Exhibit 2 below represents an example of a roll calculation.

² On the first Business Day of the month, WAV1 is comprised of the same group of commodities that comprised the WAV2 of the prior month. Therefore, when calculating the change in the WAV1, it is divided by the WAV2 from the last Business Day of the prior month. This does not represent a "roll", but rather a redesignation of the WAV2 to WAV1.

Exhibit 2: Roll Period Calculation Example

Unit Date	Business Day	WAV1	Roll Weight1	WAV2	Roll Weight2	всом
2-Jan-97	1	1196.764	1	1195.469	0	122.574
3-Jan-97	2	1196.121	1	1195.107	0	122.509
6-Jan-97	3	1214.668	1	1213.927	0	124.408
7-Jan-97	4	1214.314	1	1214.285	0	124.372
8-Jan-97	5	1220.453	1	1220.608	0	125.001
9-Jan-97	6	1218.382	0.8	1219.878	0.2	124.816
10-Jan-97	7	1216.373	0.6	1220.351	0.4	124.712
13-Jan-97	8	1207.51	0.4	1214.11	0.6	123.966
14-Jan-97	9	1209.179	0.2	1214.664	8.0	124.046
15-Jan-97	10	1226.924	0	1230.74	1	125.687
16-Jan-97	11	1212.804	0	1218.939	1	124.482
17-Jan-97	12	1206.098	0	1213.536	1	123.93
21-Jan-97	13	1194.815	0	1203.879	1	122.944
22-Jan-97	14	1197.584	0	1206.081	1	123.169
23-Jan-97	15	1197.393	0	1206.424	1	123.204

Continuing the Natural Gas example, the December 2022, CBOT's BCOM Index Futures contract will be comprised of January 2023 Natural Gas futures contracts, among others, as noted in Exhibit 1 above. These January 2023 Natural Gas contracts will roll to March 2023 contracts over the period of the 6th and 10th business days of December (this equates to the period from December 8, 2022 – December 14, 2022). After December 14, the underlying Natural Gas futures contract within the December 2022 BCOM Index Futures contract will reference the March 2023 as the Lead Future.

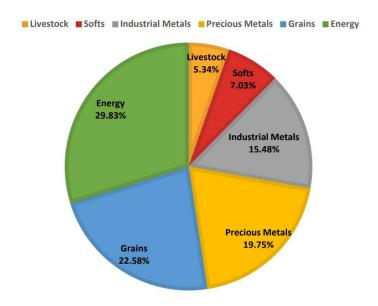
This example illustrates that the underlying futures contracts comprising CME Group futures on the BCOM Index, including its related subindices, will roll to the next available contract month during the 6th-10th business days of each month. The way the Contract is designed, the roll period for the underlying futures will occur just before the overarching futures contract expires. To complete the example, the December 2022 BCOM Index Futures contract will expire on December 21, 2022, the 3rd Wednesday of the contract month. Thus, in conjunction with the roll period, the listing schedule and expiration of the Contract makes it so that there is zero possibility of the underlying contracts going spot.

Each of the Commodities eligible for inclusion in BCOM are assigned to "Commodity Groups." The Commodity Groups, and the Commodities composing each Commodity Group, are as follows:

Commodity Group	Commodities
Energy	Crude Oil (WTI & Brent)
	Natural Gas
	RBOB Gasoline
	Low Sulphur Gas Oil
	ULS Diesel
Precious Metals	Gold
	Platinum
	Silver
Industrial Metals	Aluminum
	Copper
	Lead Nickel

	T:
	Tin
	Zinc
Livestock	Live Cattle
	Lean Hogs
Grains	Corn Soybeans
	Soybean Oil
	Soybean Meal
	Wheat (Chicago and KC
	HRW)
Softs	Cocoa
	Coffee
	Cotton
	Sugar

The 2022 target weights for BCOM are shown in the pie chart below.



The weights of each sector in BCOM may fluctuate according to market price fluctuations, however, upon each annual rebalancing, the weights are reset to the target weights.

BCOM is rebalanced annually, and it is during this rebalancing that the CIMs are determined. At the start of each calendar year, new CIMs are calculated for each component future in the BCOM Index on the "CIM Determination Date." The CIM Determination Date is always the 4th business day of each calendar year. After the CIMs are calculated, they remain fixed for the remainder of the year. The CIMs are a critical input to the calculation of the Index and help determine the target weightings for each component future in the Index. Again, the component futures weightings may fluctuate from the target weighting illustrated in the pie chart above throughout the course of the year.

Constituents for the Index are included in Exhibit 3 below with data as of October 19, 2022.3

Exhibit 3 - Bloomberg Commodity Index Constituents

Exchange	Ticker	Constituent Futures Name	Expiration	Weight (%)
СВОТ	SMF3	SOYBEAN MEAL	23-Jan	3.23
CBOT	BOF3	SOYBEAN OIL	23-Jan	3.48
CME	LCZ2	CATTLE	22-Dec	3.75

³ Exhibit 3 contains data pulled from the Bloomberg Terminal

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CBOT	C Z2	CORN	22-Dec	5.97
NYMEX	CLF3	WTI CRUDE	23-Jan	8.08
COMEX	GCZ2	COMEX GOLD	22-Dec	13.03
COMEX	HGZ2	COMEX COPPER	22-Dec	3.91
NYMEX	HOF3	HEATING OIL PHY	23-Jan	2.74
CBOT	KWZ2	KC WHEAT	22-Dec	1.94
CME	LHZ2	HOGS	22-Dec	1.76
NYMEX	NGF23	NATURAL GAS PHY	23-Jan	12.81
NYMEX	XBF3	RBOB PHY	23-Jan	2.16
CBOT	S F3	SOYBEAN	23-Jan	5.49
COMEX	SIZ2	COMEX SILVER	22-Dec	3.74
CBOT	W Z2	CHI WHEAT	22-Dec	3.05
ICE Europe	COF3	BRENT CRUDE	23-Jan	7.32
ICE Europe	QSF3	LOW SU GASOIL	23-Jan	3.48
LME	LNF3	NICKEL	23-Jan	2.77
LME	LAF23	PRI ALUM	23-Jan	3.00
LME	LXF3	ZINC	23-Jan	2.42
ICE US	SBH3	SUGAR	23-Mar	2.73
ICE US	KCZ2	COFFEE	22-Dec	2.16
ICE US	CTZ2	COTTON	22-Dec	0.98

Analysis of Deliverable Supply

Bloomberg calculates and publishes official closing values for the Bloomberg Commodity Index based on the settlements of the index's component commodity futures contracts. CME Group's BCOM futures settle to the Bloomberg Commodity Index official closing value on a daily basis.

If Bloomberg does not provide a Bloomberg Commodity Index official closing value by 16:00 Central Time (CT), then CBOT's Bloomberg Commodity Index Futures contract (the "Contract") will settle to the most recent index value available.

Under normal market conditions, Bloomberg provides and distributes final settlements for all related Bloomberg Commodity Index Futures contracts with open interest. The final settlement price is based on a special quotation of the Bloomberg Commodity Index which corresponds to the expiring futures contract at the close of business on the third Wednesday of the contract month, or, if the related Index is not published for that day, on the first preceding day on which the Index was published.⁴

The Bloomberg Commodity Index is calculated using the settlement prices of the index's component futures on that day, except under the special conditions noted below:

- If an exchange that lists a component or components of the commodity index is not open on the
 final settlement day because of a scheduled closing, then the contribution to the final settlement
 price for the affected component or components shall be based on the settlement quotation of the
 first preceding trading day; or
- Market Disruption Event ("MDE") shall mean: (a) the termination or suspension of, or material limitation or disruption in the trading of, any futures contract used in the calculation of the Bloomberg Commodity Index on that day, including if due to the closing of an exchange prior to the regularly scheduled closing time of an exchange; (b) the settlement price of any such contract reflects the maximum permitted price change from the previous day's settlement price; or (c) the failure of an exchange to publish official Settlement Prices for any such contract. If an MDE occurs on the expiration date, the Bloomberg Commodity Index contract will settle based on a special value calculated using all component futures prices as of the expiration date that were not subject

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⁴ Adapted from CME Group's Settlement Methodology https://www.cmegroup.com/confluence/display/EPICSANDBOX/Commodity+Index+Products

to an MDE and, for any futures contracts which were subject to an MDE, using the next available futures settlement price for which an MDE is no longer in effect, with a delay limited to 10 business days from the original expiration date. If on the 10th business day, an MDE is still in effect for the affected contracts, then UBS Securities LLC and CBOT will agree upon an appropriate estimated futures price or prices to be used to calculate the final adjusted settlement value of the Bloomberg Commodity Index.

To provide a snapshot of the underlying futures that would be used in the final settlement for the Contract, price and volume data are provided in Exhibits 4-7 below for the past four expiration dates corresponding to the 3rd Wednesday of the past four quarterly contract months (Sep 21, 2022; Jun 15, 2022; Mar 16, 2022; Dec 15, 2021). The contract months shown relate to Bloomberg's methodology on which contract months are eligible (please refer back to Exhibit 1 for more detail).

Given that the final settlement price for the Index is calculated from the underlying futures contracts on the final settlement day (i.e., the 3rd Wednesday of the contract month), settlement prices for the underlying futures contracts comprising the Contract are provided below. Data for both the Lead Future and Next Future contract months for each commodity are included. The volume data represents the individual commodity futures contracts volume during the respective settlement window on the final settlement day of the Index.

Exhibit 4: September 21, 2022 Final Settlement – Underlying Futures Settlement Prices and Volume⁵

Contract Month Year (YYYY-MM)	Contract Month Rank	Underlying Futures Product	Commodity Code	Settle Price ⁶	Volume during Settlement Window	Settlement Window
2022-12	Lead	CHICAGO	W	903.75	1,206	13:14:00 to
2022-12	Next	WHEAT	VV	903.75	1,206	13:15:00 CT
2022-12	Lead	CORN	С	685.50	1,734	13:14:00 to
2022-12	Next	COKIN	C	685.50	1,734	13:15:00 CT
2022-11	Lead	LIGHT SWEET	CL	82.94	4,170	14:28:00 to
2023-01	Next	CRUDE OIL	CL	81.62	152	14:30:00 ET
2022-12	Lead	GOLD	GC	1,675.70	973	13:29:00 to
2022-12	Next	GOLD	GC	1,675.70	97.	13:30:00 ET
2022-11	Lead	RBOB GASOLINE	DD	2.41	1,151	14:28:00 to
2023-01	Next	ROUD GASULINE	RB	2.32	62	14:30:00 ET
2022-12	Lead	COPPER	HG	3.47	561	12:59:00 to
2022-12	Next	COPPER	пС	3.47	561	13:00:00 ET
2022-12	Lead	KC HRW WHEAT	KW	967.00	350	13:14:00 to
2022-12	Next	KC HKW WHEAT	ΝVV	967.00	350	13:15:00 CT
2022-12	Lead	LEAN HOG	LN	86.45	688	12:59:30 to
2022-12	Next	LEAN HOG	LIN	86.45	688	13:00:00 CT
2022-12	Lead	LIVE CATTLE	48	150.75	1,183	12:59:30 to
2022-12	Next	LIVE CALILE	40	150.75	1,183	13:00:00 CT
2022-11	Lead	NATURAL GAS	NG	7.83	633	14:28:00 to
2023-01	Next	INATURAL GAS	ING	8.11	90	14:30:00 ET
2022-11	Lead	NY HEATING OIL	НО	3.26	774	

⁵ CME Group futures price data sourced from Infosource. Competitor exchange price data and all volume data sourced from Bloomberg Terminal.

⁶ Please note the prices used in the calculation of the Index and all related Subindices are converted from the raw futures settlement prices provided in Exhibits 4-7. The raw settlement prices are provided for purposes of surveillance. The conversions used in the Index calculation for each contract can be found on page 34 of the methodology document.

2023-01	Next			3.15	5	14:28:00 to 14:30:00 ET
2022-12	Lead	CHACED	CI	19.48	417	13:24:00 to
2022-12	Next	SILVER	SI	19.48	417	13:25:00 ET
2022-11	Lead	COVDEAN	S	1,461.25	798	13:14:00 to
2023-01	Next	SOYBEAN	5	1,467.00	52	13:15:00 CT
2023-03	Lead	SUGAR #11	SB	17.81	874	12:53:00 to
2023-03	Next	SUGAR #11	SD	17.81	874	12:55:00 ET
2022-12	Lead	COFFEE	KC	221.30	361	12:23:00 to
2022-12	Next	COFFEE	KC	221.30	361	12:25:00 ET
2022-12	Lead	COTTON NO 2	СТ	96.92	661	14:14:00 to
2022-12	Next	COTTON NO 2	CI	96.92	661	14:15:00 ET
2023-01	Lead			87.31	214	19:28:00 to
2023-01	Next	BRENT CRUDE	CO	87.31	214	19:30:00 London Time
2022-11	Lead			934.50	44	16:28:00 to
2023-01	Next	LOW SU GASOIL	QS	896.00	13	16:30:00 London Time
2022-11	Lead			24,921.00	-	12:20:00 to
2023-01	Next	LME NICKEL	LN	24,983.00	-	13:25:00 London Time
2022-11	Lead			2,195.00	5	12:20:00 to
2023-01	Next	LME PRI ALUM	LA	2,209.90	-	13:25:00 London Time
2022-11	Lead			3,110.75	-	12:20:00 to
2023-01	Next	LME ZINC	LX	3,084.50	-	13:25:00 London Time

Exhibit 5: June 15, 2022 Final Settlement – Underlying Futures Settlement Prices and Volume

Contract Month Year (YYYY-MM)	Contract Month Rank	Underlying Futures Product	Commodity Code	Settle Price	Volume during Settlement Window	Settlement Window
2022-09	Lead	CHICAGO	W	1,063.50	292	13:14:00 to
2022-09	Next	WHEAT	VV	1,063.50	292	13:15:00 CT
2022-09	Lead	CORN	С	729.00	400	13:14:00 to
2022-09	Next	CORN	C	729.00	400	13:15:00 CT
2022-09	Lead	LIGHT SWEET	CL	110.75	1,058	14:28:00 to
2022-09	Next	CRUDE OIL	CL	110.75	1,058	14:30:00 ET
2022-08	Lead	GOLD	GC	1,819.60	1,826	13:29:00 to
2022-12	Next		GC	1,839.40	66	13:30:00 ET
2022-09	Lead	RBOB	DD	3.62	279	14:28:00 to
2022-09	Next	GASOLINE	RB	3.62	279	14:30:00 ET
2022-09	Lead	COPPER	HG	4.18	494	12:59:00 to
2022-09	Next	COPPER	пС	4.18	494	13:00:00 ET
2022-09	Lead	KC HRW WHEAT	12101	1,140.25	120	13:14:00 to
2022-09	Next	NO HRW WHEAT	KW	1,140.25	120	13:15:00 CT
2022-08	Lead	LEAN HOG	LN	104.33	830	12:59:30 to
2022-10	Next	LEAN HOG	LIN	91.70	555	13:00:00 CT
2022-08	Lead	LIVE CATTLE	48	136.80	695	12:59:30 to
2022-10	Next	LIVE CATTLE	40	142.23	283	13:00:00 CT

2022-09	Lead	NATURAL GAS	NG	7.37	375	14:28:00 to
2022-09	Next	NATURAL GAS	NG	7.37	375	14:30:00 ET
2022-09	Lead	NIV LIE ATINIC OIL	ШО	4.29	206	14:28:00 to
2022-09	Next	NY HEATING OIL	НО	4.29	206	14:30:00 ET
2022-09	Lead	SILVER	SI	21.50	10	13:24:00 to
2022-09	Next	SILVER	SI	21.50	10	13:25:00 ET
2022-11	Lead	SOYBEAN	S	1,523.50	515	13:14:00 to
2022-11	Next	SOYBEAN	3	1,523.50	515	13:15:00 CT
2022-10	Lead	SUGAR #11	SB	18.57	1,459	12:53:00 to
2022-10	Next	SUGAR #11	SD	18.57	1,459	12:55:00 ET
2022-09	Lead	COFFEE	KC	228.50	233	12:23:00 to
2022-09	Next	COFFEE	KC	228.50	233	12:25:00 ET
2022-12	Lead	COTTON NO 2	СТ	117.92	346	14:14:00 to
2022-12	Next	COTTON NO 2	O1	117.92	346	14:15:00 ET
2022-09	Lead	BRENT CRUDE	СО	115.47	1,635	19:28:00 to 19:30:00 London
2022-11	Next	BILLINI CHODE	CO	110.76	1,163	Time
2022-09	Lead	LOW SU GASOIL	QS	1,250.00	301	16:28:00 to 16:30:00 London
2022-09	Next	LOW SO GASOIL	QS	1,250.00	301	Time
2022-09	Lead	LME NICKEL	LN	25,854.0 0	-	12:20:00 to 13:25:00 London
2022-09	Next	LIVIE INIUNEL	LIN	25,854.0 0	-	Time
2022-09	Lead	LME PRI ALUM	LA	2,591.50	19	12:20:00 to 13:25:00 London
2022-09	Next	LIVIE FRI ALUIVI	LA	2,591.50	19	Time
2022-09	Lead	LME ZINC	LX	3,641.50	-	12:20:00 to 13:25:00 London
2022-09	Next	LIVIE ZIING	LΛ	3,641.50	-	Time

Exhibit 6: March 16, 2022 Final Settlement – Underlying Futures Settlement Prices & Volume

Contract Month Year (YYYY-MM)	Contract Month Rank	Underlying Futures Product	Commodity Code	Settle Price	Volume during Settlement Window	Settlement Window	
2022-05	Lead	CHICAGO	W	1,069.25	57	13:14:00 to	
2022-07	Next	WHEAT	VV	1,042.50	14	13:15:00 CT	
2022-05	Lead	CORN	С	730.00	1,974	13:14:00 to	
2022-07	Next	CORN	C	697.00	685	13:15:00 CT	
2022-05	Lead	LIGHT SWEET	CL	93.59	1,171	14:28:00 to	
2022-07	Next	CRUDE OIL	CL	89.53	121	14:30:00 ET	
2022-06	Lead	GOLD	GC	1,914.30	285	13:29:00 to	
2022-06	Next	GOLD	GC	1,914.30	285	13:30:00 ET	
2022-05	Lead	RBOB	RB	2.95	586	14:28:00 to	
2022-07	Next	GASOLINE	KD	2.80	15	14:30:00 ET	
2022-05	Lead	COPPER	HG	4.60	553	12:59:00 to	
2022-07	Next	COFFER	пС	4.60	9	13:00:00 ET	
2022-05	Lead	KC HRW WHEAT	KW	1,072.50	5	13:14:00 to	
2022-07	Next	NO HRVV VVHEAT	r\vv	1,058.50	28	13:15:00 CT	

2022-06	Lead	LEAN HOG	LN	120.48	595	12:59:30 to	
2022-06	Next	LEANTIOG	LIN	120.48	595	13:00:00 CT	
2022-06	Lead	LIVE CATTLE	48	135.53	731	12:59:30 to	
2022-06	Next	LIVE CATTLE	40	135.53	731	13:00:00 CT	
2022-05	Lead	NATURAL GAS	NG	4.78	944	14:28:00 to	
2022-07	Next	NATURAL GAS	NG	4.88	228	14:30:00 ET	
2022-05	Lead	NY HEATING OIL	НО	2.97	407	14:28:00 to	
2022-07	Next	INT HEATING OIL	пО	2.83	58	14:30:00 ET	
2022-05	Lead	SILVER	SI	24.71	572	13:24:00 to	
2022-07	Next	SILVER	SI	24.74	12	13:25:00 ET	
2022-05	Lead	SOYBEAN	S	1,649.25	819	13:14:00 to	
2022-07	Next	SOTBEAN	3	1,626.00	309	13:15:00 CT	
2022-05	Lead	SUGAR #11	SB	18.56	1,555	12:53:00 to	
2022-07	Next	30GAN #11	36	18.47	647	12:55:00 ET	
2022-05	Lead	COFFEE	KC	217.50	90	12:23:00 to	
2022-07	Next	COFFEE	NC	217.25	49	12:25:00 ET	
2022-05	Lead	COTTON NO 2	СТ	119.80	245	14:14:00 to	
2022-07	Next	COTTON NO 2	Ci	116.00	62	14:15:00 ET	
2022-05	Lead	DDENT ODLIDE	00	98.02	11	19:28:00 to	
2022-07	Next	BRENT CRUDE	CO	93.66	11	19:30:00 London Time	
2022-05	Lead			887.75	3	16:28:00 to	
2022-07	Next	LOW SU GASOIL	QS	836.75	-	16:30:00 London Time	
2022-05	Lead	LME NICKEL	LN	45,697.0 0	-	12:20:00 to 13:25:00 London	
2022-07	Next	LIVIE INIUNEL	LIN	45,585.0 0	-	Time	
2022-05	Lead			3,257.50	1	12:20:00 to	
2022-07	Next	LME PRI ALUM	LA	3,253.25	-	13:25:00 London Time	
2022-05	Lead			3,812.50	-	12:20:00 to	
2022-07	Next	LME ZINC	LX	3,805.00	3	13:25:00 London Time	

Exhibit 7: December 15, 2021 Final Settlement – Underlying Futures Settlement Prices & Volume

Contract Month Year (YYYY-MM)	Contract Month Rank	Underlying Futures Product	Commodity Code	Settle Price	Volume during Settlement Window	Settlement Window
2022-03	Lead	CHICAGO	W	756.00	1,798	13:14:00 to
2022-03	Next	WHEAT	VV	756.00	1,798	13:15:00 CT
2022-03	Lead	CORN	С	585.75	3,000	13:14:00 to
2022-03	Next	CORN	C	585.75	3,000	13:15:00 CT
2022-03	Lead	LIGHT SWEET	CL	70.36	539	14:28:00 to
2022-03	Next	CRUDE OIL	OL.	70.36	539	14:30:00 ET
2022-02	Lead	GOLD	GC	1,764.50	1,638	13:29:00 to
2022-04	Next	GOLD	GC	1,766.90	19	13:30:00 ET
2022-03	Lead	RBOB GASOLINE	RB	2.11	73	

2022-03	Next			2.11	73	14:28:00 to	
						14:30:00 ET	
2022-03	Lead	COPPER	HG	4.18	468	12:59:00 to	
2022-03	Next			4.18	468	13:00:00 ET	
2022-03	Lead	KC HRW WHEAT	KW	785.50	793	13:14:00 to	
2022-03	Next	ROTHW WILAT	IXVV	785.50	793	13:15:00 CT	
2022-02	Lead	LEAN HOG	LN	79.33	855	12:59:30 to	
2022-04	Next	LEAN HOG	LIN	84.20	190	13:00:00 CT	
2022-02	Lead	LIVE CATTLE	48	136.58	1,170	12:59:30 to	
2022-04	Next	LIVE CATTLE	40	140.93	448	13:00:00 CT	
2022-03	Lead	NATURAL GAS	NG	3.67	372	14:28:00 to	
2022-03	Next	NATURAL GAS	NG	3.67	372	14:30:00 ET	
2022-03	Lead	NV HEATING OIL	НО	2.20	97	14:28:00 to	
2022-03	Next	NY HEATING OIL	ПО	2.20	97	14:30:00 ET	
2022-03	Lead	SILVER	SI	21.55	885	13:24:00 to	
2022-03	Next	SILVER	SI	21.55	885	13:25:00 ET	
2022-03	Lead	SOYBEAN	S	1,265.25	537	13:14:00 to	
2022-03	Next	SOTBLAN	3	1,265.25	537	13:15:00 CT	
2022-03	Lead	SUGAR #11	SB	19.29	2,182	12:53:00 to	
2022-03 2022-03	Next Lead			19.29 237.30	2,182 226	12:55:00 ET	
2022-03	Next	COFFEE	KC	237.30	226	12:23:00 to 12:25:00 ET	
2022-03	Lead			105.79	410	14:14:00 to	
2022-03	Next	COTTON NO 2	CT	105.79	410	14:15:00 ET	
2022-03	Lead			73.78	1,029	19:28:00 to	
2022-05	Next	BRENT CRUDE	CO	73.13	78	19:30:00 London Time	
2022-03	Lead	1 0 1 1 0 1 0 1	00	630.50	381	16:28:00 to	
2022-03	Next	LOW SU GASOIL	QS	630.50	381	16:30:00 London Time	
2022-03	Lead	LME NICKEL	LN	19,110.0 0	29	12:20:00 to 13:25:00 London	
2022-03	Next	LIVIE INIONEL	LIN	19,110.0 0	29	Time	
2022-03	Lead			2,597.00	145	12:20:00 to	
2022-03	Next	LME PRI ALUM	LA	2,597.00	145	13:25:00 London Time	
2022-03	Lead			3,270.50	40	12:20:00 to	
2022-03	Next	LME ZINC	LX	3,270.50	40	13:25:00 London Time	

The Exchange believes that positions of 100,000 contracts of the Contract could be held without exceeding any non-spot single month position limit for any of the component futures contracts. There is no spot month pricing from any component used in the index, so no spot month position limit is specified.

The position limit calculation methodology described below is based on an approach suggested by the Commission and has been previously used to adjust position limit levels for S&P GSCI contracts in 2012 and 2013. (See Chicago Mercantile Exchange Inc. ("CME") Submission No. <u>13-036</u>, dated February 8, 2013.) The same methodology has also been used to determine positions limit levels for Dow Jones–UBS

Roll Select Commodity Index Futures, launched in 2013, as well as Dow Jones-UBS Commodity Index Futures (See CBOT Submission No. <u>13-232</u>, dated June 12, 2013, and CBOT Submission No. <u>13-494</u>, dated October 10, 2013, respectively.

This position limit calculation methodology draws from the BCOM methodology, which utilizes each component's CIM. These CIMs are updated on a yearly basis and are calculated based on the liquidity, production, and settlement prices of each component. Also critical to this calculation is the WAV1 figure as it serves as the "normalizing constant" which can be thought of as a weighting factor for each commodity. The WAV1 figure is 5651.324 and this figure is calculated by multiplying each CIM by the settlement price for the component future for that day (in this case, the prices for each component future on September 21, 2022) and summing the results. Dividing each constituent's CIM by the WAV1 gives us the "Hedge Ratio." To find the Equivalent Position, the Exchange multiplied the Hedge Ratio by an arbitrary index value then divide that product by the component's contract unit, then multiply by the proposed position limit of 100,000 and then finally multiply by the BCOM futures contract multiplier of 100.

The component futures equivalency is a positive function of the value of the BCOM. That is, when the BCOM's value increases, more futures contracts of the underlying components are needed to replicate a position in BCOM. The current value (as of October 19, 2022) of the BCOM is 111.20. However, the highest index value over the whole history of the index is 237.95 set in July 2008. Setting the index value at 237.95 for this analysis makes it extremely unlikely that position limits for any component will be exceeded.

Once the component equivalent positions are calculated, they are then compared to each component's single month limit. All CME and CBOT products in the Index have single month position limits, in addition to Cotton, and these limits are used in comparison to the equivalent positions. For those products that either have single month accountability levels or no limits/levels (the remaining balance of products in the Index), a hypothetical limit is calculated using open interest of each contract. The hypothetical limit is calculated by finding the average annual open interest ("OI") for each contract over the past two years and using the higher annual figure. In this case, the two time periods observed were Sep. 15, 2020 – Sep. 15, 2021 and Sep. 15, 2021 – Sep. 15, 2022, and for each component, the higher annual average OI figure was used between the two time periods. Once this annual OI figure is calculated, if the figure is over 50,000, the hypothetical limit is calculated by summing 10% of 50,000 and 2.5% for the amount above 50,000. For example, COMEX Silver had an annual average OI figure of 191,801. The hypothetical limit for Silver is thus 8,545 (0.1 x 50,000 + 0.025 x (191,801-50,000)). For those contracts with an annual average OI less than 50,000, the hypothetical limit is simply calculated as 10% of the annual average OI figure.

The equivalent positions were calculated using the OI approach for the following constituent futures: WTI Crude, Heating Oil, Natural Gas, RBOB Gasoline (NYMEX); Gold, Copper, Silver (COMEX); Brent Crude, Low Sulphur Gasoil (ICE U.S.); Nickel, Aluminum, Zinc (LME); Sugar and Coffee (ICE Europe). The NYMEX and COMEX equivalent positions were calculated using a *futures equivalent* open interest figure, whereas the equivalent positions for the LME, ICE U.S., and ICE Europe products were calculated using a *futures-only* open interest figure.

The component equivalencies using 2022 weighting variables for 100,000 BCOM futures contracts with a multiplier of \$100 when the index value is set at the Index high of 237.9531 are as follows:

https://www.theice.com/futures-europe/market-resources.

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⁷ The following links contain references for the constituent futures position limits/accountability levels. CME Group position limit page: https://www.cmegroup.com/market-regulation/position-limits.html; LME accountability level memo: https://www.lme.com/api/sitecore/MemberNoticesSearchApi/Download?id=1278bb3c-4a12-4afd-9065-7a494deabf47; ICE U.S. Market Resource page: https://www.theice.com/futures-us/market-resources; ICE Europe Market Resource page:

Α	В	С	D	Е	F	G	H	1	J	K	L	M	0	Q	R	S
всом	Index															
	Contract Multiplier	100			0/04/0000		DOOM!!	400.000								
	Index Value	237.9531		As of	9/21/2022		BCOM Limit	100,000								
	mast raise	20110001														
						WAV1	5651.324									
Exchange	Symbol	Constituent	Month	Unit	Contract Unit				Hedge Ratio	Equivalent Position	Non-Spot Single Month Limit or Calculated Hypothetical Limit	Difference	5.651		Higher Annual Avg FE or Futures- Only Ol**	Use as hypothetical Li in Column L f products without Limits
CBOT	SM	SOYBEAN MEAL	22-Dec	S/ston	100	0.43715955	438.8	3,39%	0.00007736	1841	16900	15,059,31	191.8256105	Limit		
CBOT	BO	SOYBEAN OIL	22-Dec	c/lb	60000	274.8530348	0.65	3.16%	0.04863516	1929	17400	15,471,19	178.6544726	Limit		
CME	LC	CATTLE	22-Dec	c/lb	40000	133.0704101	1.5075	3.55%	0.02354677	1401	6300	4,899.24	200.6036432	Limit		
CBOT	С	CORN	22-Dec	c/bu	5000	47.25883853	6.855	5.73%	0.00836244	3980	57800	53,820.26	323.9593381	Limit		
NYMEX	CL	WTI CRUDE	22-Nov	\$/bbl	1000	5.20063777	82.94	7.63%	0.00092025	2190	80973	78,783.26	431.3408966	Accountability	3088921	80973
COMEX	GC	COMEX GOLD	22-Dec	\$/oz	100	0.42792562	1675.7	12.69%	0.00007572	1802	22059	20,256.97	717.0749614	Accountability	732351	22059
COMEX	HG	COMEX COPPER	22-Dec	c/lb	25000	63.27818201	3,467	3,88%	0.01119706	1066	9875	8,808,81	219.385457	Accountability	244982	9875
NYMEX	HO	HEATING OIL PHY	22-Nov	c/gal	42000	42.77649928	3.2615	2.47%	0.00756929	429	14141	13,712.26	139.5155524	Accountability	415644	14141
CBOT	KW	KC WHEAT	22-Dec	c/bu	5000	11.04980952	9.67	1.89%	0.00195526	931	12000	11,069.48	106.8516581	Limit		
CME	LH	HOGS	22-Dec	c/lb	40000	107.9717216	0.8645	1.65%	0.01910556	1137	6000	4,863.44	93.34155332	Limit		
NYMEX	NG	NATURAL GAS PHY	22-Nov	\$/mmbtu	10000	110.6376072	7.83	15.32%	0.01957729	4658	35593	30,934.23	866.2924644	Accountability	1273708	35593
NYMEX	XB	RBOB PHY	22-Nov	c/gal	42000	48.00511233	2.4124	2.05%	0.00849449	481	13599	13,117.61	115.807533	Accountability	393955	13599
CBOT	S	SOYBEAN	22-Nov	c/bu	5000	21.29967754	14.6125	5.51%	0.00376897	1794	27300	25,506.32	311.2415381			
COMEX	SI	COMEX SILVER	22-Dec	c/oz	5000	10.91913049	19.48	3.76%	0.00193214	920	8545	7,625.50		Accountability	191801	8545
CBOT	W	CHI WHEAT	22-Dec	c/bu	5000	19.4754306	9.0375	3.11%	0.00344617	1640	19300	17,659.95	176.009204			
ICE Eur	CO	BRENT CRUDE	23-Jan	\$/bbl	1000	4.33489702	87.31	6.70%	0.00076706	1825	12458	10,633.19	378.4798588		348337	12458
ICE Eur	QS	LOW SU GASOIL	22-Nov	\$/mton	100	0.19217715	934.5	3.18%	0.00003401	809	6554	5,745.13	179.5895467		112172	6554
LME	LN	NICKEL	22-Nov	\$/mton	6	0.0067833	24921	2.99%	0.00000120	476	1542	1,065.74		Accountability	15518	1552
LME	LA	PRI ALUM	22-Nov	\$/mton	25	0.07417965	2195	2.88%	0.00001313	1249	5156	3,906.33		Accountability	56395	5160
LME	LX	ZINC	22-Nov	\$/mton	25	0.04469693	3110.75	2.46%	0.00000791	753	1539	786.30		Accountability	15341	1534
ICE US	SB	SUGAR	23-Mar	c/lb	112000	784.1159508	0.1781	2.47%	0.13874908	2948	12051	9,103.38		Accountability	332049	12051
ICE US	KC	COFFEE	22-Dec	c/lb	37500	60.21517077	2.213	2.36%	0.01065506	676	4785	4,108.48		Accountability	47846	4785
ICE US	CT	COTTON	22-Dec	c/lb	50000	66.88653209	0.9692	1.15%	0.01183555	563	5000	4,436.74	64.8264269	Limit		
	modity Index Multipli	ier /professional/sites/10/	/BCOM-Ma	thodology.	-MΔD-2022 FIN	IAI ndf										
		ted NYMEX and COM							JICE I M							

The largest component equivalency is for natural gas futures. The calculated single-month limit for that component is 35,593 contracts so the limit of 100,000 index futures contracts results in an equivalency (4,658 contracts) that is under the calculated limit. For all other components, the component equivalencies are lower than their respective position limits.

CBOT proposes a single and all month position limit of 100,000 index futures contracts of the Contract. The reporting limit for the Contract shall remain 200 contracts.