

5. Applicants also request an exemption from section 22(d) of the Act and rule 22c-1 under the Act as secondary market trading in shares will take place at negotiated prices, not at a current offering price described in a Fund's prospectus, and not at a price based on NAV. Applicants state that (a) secondary market trading in shares does not involve a Fund as a party and will not result in dilution of an investment in shares, and (b) to the extent different prices exist during a given trading day, or from day to day, such variances occur as a result of third-party market forces, such as supply and demand. Therefore, applicants assert that secondary market transactions in shares will not lead to discrimination or preferential treatment among purchasers. Finally, applicants represent that share market prices will be disciplined by arbitrage opportunities, which should prevent shares from trading at a material discount or premium from NAV.

6. With respect to Funds that hold non-U.S. Portfolio Instruments and that effect creations and redemptions of Creation Units in kind, applicants request relief from the requirement imposed by section 22(e) in order to allow such Funds to pay redemption proceeds within fifteen calendar days following the tender of Creation Units for redemption. Applicants assert that the requested relief would not be inconsistent with the spirit and intent of section 22(e) to prevent unreasonable, undisclosed or unforeseen delays in the actual payment of redemption proceeds.

7. Applicants request an exemption to permit Funds of Funds to acquire Fund shares beyond the limits of section 12(d)(1)(A) of the Act; and the Funds, and any principal underwriter for the Funds, and/or any broker or dealer registered under the Exchange Act, to sell shares to Funds of Funds beyond the limits of section 12(d)(1)(B) of the Act. The application's terms and conditions are designed to, among other things, help prevent any potential (i) undue influence over a Fund through control or voting power, or in connection with certain services, transactions, and underwritings, (ii) excessive layering of fees, and (iii) overly complex fund structures, which are the concerns underlying the limits in sections 12(d)(1)(A) and (B) of the Act.

8. Applicants request an exemption from sections 17(a)(1) and 17(a)(2) of the Act to permit persons that are Affiliated Persons, or Second-Tier Affiliates, of the Funds, solely by virtue of certain ownership interests, to effectuate purchases and redemptions in-kind. The deposit procedures for in-kind

purchases of Creation Units and the redemption procedures for in-kind redemptions of Creation Units will be the same for all purchases and redemptions and Deposit Instruments and Redemption Instruments will be valued in the same manner as those Portfolio Instruments currently held by the Funds. Applicants also seek relief from the prohibitions on affiliated transactions in section 17(a) to permit a Fund to sell its shares to and redeem its shares from a Fund of Funds, and to engage in the accompanying in-kind transactions with the Fund of Funds.<sup>2</sup> The purchase of Creation Units by a Fund of Funds directly from a Fund will be accomplished in accordance with the policies of the Fund of Funds and will be based on the NAVs of the Funds.

9. Applicants also request relief to permit a Feeder Fund to acquire shares of another registered investment company managed by the Adviser having substantially the same investment objectives as the Feeder Fund ("Master Fund") beyond the limitations in section 12(d)(1)(A) and permit the Master Fund, and any principal underwriter for the Master Fund, to sell shares of the Master Fund to the Feeder Fund beyond the limitations in section 12(d)(1)(B).

10. Section 6(c) of the Act permits the Commission to exempt any persons or transactions from any provision of the Act if such exemption is necessary or appropriate in the public interest and consistent with the protection of investors and the purposes fairly intended by the policy and provisions of the Act. Section 12(d)(1)(f) of the Act provides that the Commission may exempt any person, security, or transaction, or any class or classes of persons, securities, or transactions, from any provision of section 12(d)(1) if the exemption is consistent with the public interest and the protection of investors. Section 17(b) of the Act authorizes the Commission to grant an order permitting a transaction otherwise prohibited by section 17(a) if it finds that (a) the terms of the proposed transaction are fair and reasonable and do not involve overreaching on the part of any person concerned; (b) the proposed transaction is consistent with the policies of each registered

<sup>2</sup> The requested relief would apply to direct sales of shares in Creation Units by a Fund to a Fund of Funds and redemptions of those shares. Applicants, moreover, are not seeking relief from section 17(a) for, and the requested relief will not apply to, transactions where a Fund could be deemed an Affiliated Person, or a Second-Tier Affiliate, of a Fund of Funds because an Adviser or an entity controlling, controlled by or under common control with an Adviser provides investment advisory services to that Fund of Funds.

investment company involved; and (c) the proposed transaction is consistent with the general purposes of the Act.

For the Commission, by the Division of Investment Management, under delegated authority.

**Eduardo A. Aleman,**

*Deputy Secretary.*

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## SECURITIES AND EXCHANGE COMMISSION

[Release No. 34-85440; File No. SR-OCC-2019-002]

### Self-Regulatory Organizations; The Options Clearing Corporation; Notice of Filing of Proposed Rule Change Related to The Options Clearing Corporation's Margin Methodology for Volatility Index Futures

March 28, 2019.

Pursuant to Section 19(b)(1) of the Securities Exchange Act of 1934 ("Exchange Act" or "Act"),<sup>1</sup> and Rule 19b-4 thereunder,<sup>2</sup> notice is hereby given that on March 18, 2019, the Options Clearing Corporation ("OCC") filed with the Securities and Exchange Commission ("Commission") the proposed rule change as described in Items I, II, and III below, which Items have been prepared by OCC. The Commission is publishing this notice to solicit comments on the proposed rule change from interested persons.

#### I. Clearing Agency's Statement of the Terms of Substance of the Proposed Rule Change

The proposed rule change is filed in connection with proposed changes to modify OCC's margin methodology for futures on indexes designed to measure volatilities implied by prices of options on a particular underlying interest (such indexes being "Volatility Indexes," and futures contracts on such Volatility Indexes being "Volatility Index Futures"). The proposed methodology enhancements for Volatility Index Futures would include: (1) Introducing "synthetic" futures (discussed below) into the daily re-estimation of prices and correlations for Volatility Index Futures; (2) an enhanced statistical distribution for modeling price returns of the "synthetic" futures; and (3) a new anti-procyclical floor for variance estimates. The proposed changes are discussed in detail in Section II below.

The proposed changes to OCC's Margins Methodology document are

<sup>1</sup> 15 U.S.C. 78s(b)(1).

<sup>2</sup> 17 CFR 240.19b-4.

contained in confidential Exhibit 5 of the filing. Material proposed to be added is marked by underlining and material proposed to be deleted is marked by strikethrough text. OCC also has included backtesting and impact analysis of the proposed model changes in confidential Exhibit 3.

The proposed rule change is available on OCC's website at <https://www.theocc.com/about/publications/bylaws.jsp>. All terms with initial capitalization that are not otherwise defined herein have the same meaning as set forth in the OCC By-Laws and Rules.<sup>3</sup>

## II. Clearing Agency's Statement of the Purpose of, and Statutory Basis for, the Proposed Rule Change

In its filing with the Commission, OCC included statements concerning the purpose of and basis for the proposed rule change and discussed any comments it received on the proposed rule change. The text of these statements may be examined at the places specified in Item IV below. OCC has prepared summaries, set forth in sections (A), (B), and (C) below, of the most significant aspects of these statements.

### (A) Clearing Agency's Statement of the Purpose of, and Statutory Basis for, the Proposed Rule Change

#### (1) Purpose

The purpose of the proposed rule change is to introduce enhancements to OCC's margin methodology for Volatility Index Futures so that OCC's margin model reflects more current market information for Volatility Index Futures and allows for more appropriate modeling of the risk attributes of such products. Specifically, the proposed methodology enhancements for Volatility Index Futures would include: (1) Introducing "synthetic" futures into the process for daily re-estimation of prices and correlations for Volatility Index Futures; (2) an enhanced statistical distribution for modeling price returns for "synthetic" futures; and (3) a new anti-procyclical floor for variance estimates. OCC's current model for Volatility Index Futures and the proposed changes thereto are described in further detail below.

#### Background

OCC's margin methodology, the System for Theoretical Analysis and Numerical Simulations ("STANS"),<sup>4</sup> is

<sup>3</sup> OCC's By-Laws and Rules can be found on OCC's public website: <http://optionsclearing.com/about/publications/bylaws.jsp>.

<sup>4</sup> See Securities Exchange Act Release No. 53322 (February 15, 2006), 71 FR 9403 (February 23, 2006) (SR-OCC-2004-20).

OCC's proprietary risk management system that calculates Clearing Member margin requirements. STANS utilizes large-scale Monte Carlo simulations to forecast price and volatility movements in determining a Clearing Member's margin requirement.<sup>5</sup> The STANS margin requirement is calculated at the portfolio level of Clearing Member accounts with positions in marginable securities. The STANS margin requirement consists of an estimate of a 99% expected shortfall<sup>6</sup> over a two-day time horizon and an add-on margin charge for model risk (the concentration/dependence stress test charge).<sup>7</sup> The STANS methodology is used to measure the exposure of portfolios of options, futures and cash instruments, including the Volatility Index Futures cleared by OCC.<sup>8</sup>

Volatility Indexes are indexes designed to measure the volatility that is implied by the prices of options on a particular reference index or asset. For example, the Cboe Volatility Index ("VIX") is an index designed to measure the 30-day expected volatility of the Standard & Poor's 500 index ("SPX").<sup>9</sup>

<sup>5</sup> See OCC Rule 601.

<sup>6</sup> The expected shortfall component is established as the estimated average of potential losses higher than the 99% value at risk threshold. The term "value at risk" or "VaR" refers to a statistical technique that, generally speaking, is used in risk management to measure the potential risk of loss for a given set of assets over a particular time horizon.

<sup>7</sup> A detailed description of the STANS methodology is available at <http://optionsclearing.com/risk-management/margins/>.

<sup>8</sup> Pursuant to OCC Rule 601(e)(1), OCC also calculates initial margin requirements for segregated futures accounts on a gross basis using the Standard Portfolio Analysis of Risk Margin Calculation System ("SPAN"). Commodity Futures Trading Commission ("CFTC") Rule 39.13(g)(8), requires, in relevant part, that derivatives clearing organizations ("DCOs") collect initial margin for customer segregated futures accounts on a gross basis. While OCC uses SPAN to calculate initial margin requirements for segregated futures accounts on a gross basis, OCC believes that margin requirements calculated on a net basis (*i.e.*, permitting offsets between different customers' positions held by a Clearing Member in a segregated futures account using STANS) affords OCC additional protections at the clearinghouse level against risks associated with liquidating a Clearing Member's segregated futures account. As a result, OCC calculates margin requirements for segregated futures accounts using both SPAN on a gross basis and STANS on a net basis, and if at any time OCC staff observes a segregated futures account where initial margin calculated pursuant to STANS on a net basis exceeds the initial margin calculated pursuant to SPAN on a gross basis, OCC collateralizes this risk exposure by applying an additional margin charge in the amount of such difference to the account. See Securities Exchange Act Release No. 72331 (June 5, 2014), 79 FR 33607 (June 11, 2014) (SR-OCC-2014-13).

<sup>9</sup> Generally speaking, the implied volatility of an option is a measure of the expected future volatility of the value of the option's annualized standard deviation of the price of the underlying security, index, or future at exercise, which is reflected in the current option premium in the market. Using the

OCC currently clears futures contracts on such Volatility Indexes. These Volatility Index Futures contracts can consequently be viewed as an indication of the market's future expectations of the volatility of a given Volatility Index's underlying reference index (*e.g.*, in the case of the VIX, providing a snapshot of the expected market volatility of the underlying over the term of the options making up the index).

#### Current Model for Volatility Index Futures

Under OCC's existing margin methodology, OCC models the potential final settlement prices of Volatility Index Futures using the underlying index as the risk factor.<sup>10</sup> Final settlement prices are simulated under the assumption that the logarithm of the values of the risk factor (*i.e.*, the underlying spot Volatility Index) follows a mean-reverting<sup>11</sup> random walk<sup>12</sup> with normally-distributed steps.<sup>13</sup> The model is designed to calibrate the distribution that defines this mean-reversion behavior so that the expected final settlement prices of the futures match their currently-observed market prices to ensure that margin coverage is sufficient to limit credit exposures to OCC's participants under normal market conditions. OCC recalculates the Monte Carlo scenarios of the returns of each futures series over its remaining life so that the standard deviation of the scenarios matches two days' worth of the implied volatility of near-the-money and contemporaneously expiring options on the Volatility Index, where available, in order to align with OCC's two-day liquidation period assumption. Currently, the calibration

Black-Scholes options pricing model, the implied volatility is the standard deviation of the underlying asset price necessary to arrive at the market price of an option of a given strike, time to maturity, underlying asset price and given the current risk-free rate. In effect, the implied volatility is responsible for that portion of the premium that cannot be explained by the then-current intrinsic value (*i.e.*, the difference between the price of the underlying and the exercise price of the option) of the option, discounted to reflect its time value.

<sup>10</sup> A "risk factor" within OCC's margin system may be defined as a product or attribute whose historical data is used to estimate and simulate the risk for an associated product.

<sup>11</sup> In finance, the term "mean reversion" describes a financial time series in which returns can be very unstable in the short run but very stable in the long run.

<sup>12</sup> A random walk is a continuous process with random increments drawn independently from a particular distribution.

<sup>13</sup> This is known as a Gaussian Ornstein-Uhlenbeck process. See Uhlenbeck, G.E. and L.S. Ornstein, "On the Theory of Brownian Motion," *Physical Review*, 36, 823-841 (1930) (explaining the Gaussian Ornstein-Uhlenbeck process).

for the distribution is performed on a daily basis.

OCC's current model for Volatility Index Futures, which utilizes the underlying Volatility Index as the sole risk factor, is subject to certain limitations, which would be addressed by the proposed changes described herein. Volatility Indexes, unlike futures contracts, are not investible (*i.e.*, they cannot be replicated by static portfolios of traded contracts). In addition, the futures market has a term structure that cannot be modeled using just the underlying index. Finally, futures on a Volatility Index are less volatile and less fat-tailed<sup>14</sup> than the index itself, and these features are term-dependent. The current model was developed before sufficient data on the futures was available, so a model based on "synthetic" futures,<sup>15</sup> as proposed herein, was not an option at the time. Also, the current model does not account for certain strategies Clearing Members might employ involving spreads between delivery dates, which may result in under-margining of those positions.

In recent years, OCC has seen significant growth in trading volume for Volatility Index Futures. As a result, OCC is proposing a number of enhancements to its margin methodology designed to provide for more accurate and responsive margin requirements for Volatility Index Futures.

#### Proposed Changes

The purpose of the proposed rule change is to introduce enhancements to OCC's margin methodology so that OCC's margin models reflect more current market information for Volatility Index Futures, introduce asymmetry into the statistical distribution used to model price returns of the "synthetic" futures, and reduce procyclicality<sup>16</sup> in the model.

<sup>14</sup> A data set with a "fat tail" is one in which extreme price returns have a higher probability of occurrence than would be the case in a normal distribution.

<sup>15</sup> As discussed in further detail below, a "synthetic" futures time series, for the intended purposes of OCC, relates to a uniform substitute for a time series of daily settlement prices for actual futures contracts, which persists over many expiration cycles and thus can be used as a basis for econometric analysis.

<sup>16</sup> A quality that is positively correlated with the overall state of the market is deemed to be "procyclical." For example, procyclicality may be evidenced by increasing margin or Clearing Fund requirements in times of stressed market conditions and low margin or Clearing Fund requirements when markets are calm. Hence, anti-procyclical features in a model are measures intended to prevent risk-based models from fluctuating too drastically in response to changing market conditions.

The proposed changes would specifically include: (1) The daily re-estimation of prices and correlations using "synthetic" futures; (2) an enhanced statistical distribution for modeling price returns for "synthetic" futures; and (3) a new anti-procyclical floor for variance estimates.<sup>17</sup> The main feature of the proposed model, relative to the current model, is the replacement of the underlying Volatility Index itself as a risk factor by risk factors that are based on observed futures prices (*i.e.*, the "synthetic" futures contracts). The proposed change would introduce a new set of risk factors and method for generating scenarios for those risk factors, and hence Volatility Index Futures settlement prices, to be incorporated into the STANS margin calculations. OCC believes its proposed methodology would provide for more accurate and responsive margin requirements and that the imposition of a floor for variance estimates would mitigate procyclicality in OCC's margin methodology for Volatility Index Futures. The proposed changes are described in further detail below.

#### 1. Daily Re-Estimations Using Synthetic Futures

As noted above, OCC currently models the potential final settlement prices of Volatility Index Futures based on the underlying index itself. OCC proposes to modify its modeling approach for Volatility Index Futures by modeling the price distributions of "synthetic" futures on a daily basis based on the historical returns of futures contracts with approximately the same tenor (as opposed to OCC's current approach of calibrating the distribution based on the Volatility Index itself). A "synthetic" futures time series for the intended purposes of OCC relates to a uniform substitute for a time series of daily settlement prices for actual futures contracts, which persists over many expiration cycles and thus can be used as a basis for econometric analysis. One feature of futures contracts is that each contract may have a different expiration date, and at any one point in time there may be a variety of futures contracts on the same underlying interest, all with varying dates of expiry, so that there is no one continuous time series for those futures. "Synthetic" futures can be used to generate a continuous time series of futures contract prices across multiple expirations. These "synthetic" futures price return histories would be inputted

<sup>17</sup> OCC would also make a number of conforming changes throughout its Margins Methodology so that the document accurately reflects the adoption of the new model.

into the existing Copula simulation process in STANS alongside the underlying interests of OCC's other cleared and cross-margin products and collateral. The purpose of this use of "synthetic" futures is to allow the margin system to better approximate correlations between futures contracts of different tenors by creating more price data points and their margin offsets.

Under the proposal, the historical "synthetic" time series for these Volatility Indexes would be updated daily and mapped to their corresponding futures contracts. By construction, the first "synthetic" time series would always contain returns of the front contract (*i.e.*, the contract closest to maturity, on any given day), the second, which would correspond to the next month out, and the remaining series would follow the same pattern. Following the expiration date of the front contract, each contract within a time series would be replaced with a contract maturing one month later. While "synthetic" time series contain returns from different contracts, a return on any given date is constructed from prices of the same contract (*e.g.*, as the front month futures contract "rolls" from the current month to the subsequent month, returns on the roll date would be constructed by using the same contract and not by calculating returns across months). The marginal probability distribution parameters for the "synthetic" time series (*i.e.*, marginal probabilities of various values of the variables in the distribution without reference to the values of the other variables) would be estimated daily using recent historical observations.<sup>18</sup> In cases in which the GARCH variance<sup>19</sup> forecast falls below the sample variance, in addition to being floored by the sample variance, the "synthetic" time series would additionally be "scaled up" through the introduction of a new floor on variance estimates based on the corresponding underlying index in order to reduce

<sup>18</sup> However, for any tenor extension or new contract that does not have enough historical data for the associated "synthetic" security, the scenarios for the longest tenor "synthetic" with enough history would be used as a proxy for generating futures theoretical price scenarios. In this case, the long run floor (discussed below) would be borrowed from the proxy "synthetic."

<sup>19</sup> See generally Tim Bollerslev, "Generalized Autoregressive Conditional Heteroskedasticity," *Journal of Econometrics*, 31(3), 307-327 (1986). The acronym "GARCH" refers to an econometric model that can be used to estimate volatility based on historical data. The general distinction between the "GARCH variance" and the "sample variance" for a given time series is that the GARCH variance uses the underlying time series data to forecast volatility.

procyclicality in the model (as discussed in further detail below).

OCC believes that using synthetic futures in its daily re-estimation process would allow OCC's econometric model for Volatility Index Futures to reflect more current market information and achieve better coverage across the term curve.<sup>20</sup> As a result, OCC believes the proposed changes would result more accurate margin requirements for Clearing Members under the current market conditions.

## 2. Enhancements to Statistical Distribution for Volatility Index Futures

In addition to using a "synthetic" futures price return history in the process for daily re-estimation of model parameters, OCC is proposing additional enhancements to its margin methodology for Volatility Index Futures to introduce asymmetry into the statistical distribution used to model price returns of the "synthetic" futures. The econometric model currently used in STANS for all price risk factors is an asymmetric GARCH(1,1) with symmetric Standardized Normal Reciprocal Inverse Gaussian (or "NRIG")-distributed logarithmic returns.<sup>21</sup> OCC proposes to move to an asymmetric NRIG distribution for purposes of modeling proportionate returns of the "synthetic" futures. OCC believes the asymmetric NRIG distribution has a better "goodness of fit" <sup>22</sup> to the historical data and allows for more appropriate modeling of observed asymmetry of the distribution. As a result, OCC believes that the proposed change would lead to more consistent treatment of returns both on the upside as well as downside of the distribution. Accordingly, OCC believes that the proposed changes would result in margin requirements for Volatility Index Futures that respond more appropriately to changes in market

<sup>20</sup> In 2018, the Commission approved, and issued a Notice of No-Objection to, proposed changes to OCC's margin methodology designed to enable OCC to: (1) Obtain daily price data for equity products for use in the daily estimation of econometric model parameters; (2) enhance OCC's econometric model for updating statistical parameters for all risk factors that reflect the most recent data obtained; (3) improve the sensitivity and stability of correlation estimates across risk factors by using de-volatilized returns; and (4) improve OCC's methodology related to the treatment of defaulting securities. See Securities Exchange Act Release No. 83326 (May 24, 2018), 83 FR 25081 (May 31, 2018) (SR-OCC-2017-022) and Securities Exchange Act Release No. 83305 (May 23, 2018), 83 FR 24536 (May 29, 2018) (SR-OCC-2017-811). Under the proposal, correlation updates for "synthetic" futures would be done daily with a one-day lag.

<sup>21</sup> See *id.*

<sup>22</sup> The goodness of fit of a statistical model describes the extent to which observed data match the values generated by the model.

volatility and therefore are more accurate.

## 3. Introduction of Anti-Procyclical Floor for Variance Estimates

OCC also proposes to introduce a new floor for variance estimates of the Volatility Index Futures that would be modeled under the newly proposed approach to mitigate procyclicality in OCC's margin model. In order to incorporate a variance level implied by a longer time series of data, OCC would calculate a floor for variance estimates based on the underlying index (*e.g.*, VIX) which is expected to have a longer history that is more reflective of the long-run variance level that cannot be otherwise captured using the "synthetic" futures data. The floor would therefore reduce the impact of a sudden increase in margin requirements from a low level and therefore mitigate procyclicality in the model.

## Clearing Member Outreach

In order to inform Clearing Members of the proposed change, OCC has provided updates to members at OCC Roundtable<sup>23</sup> and Financial Risk Advisory Council (or "FRAC")<sup>24</sup> meetings and will provide additional reminders about the proposed changes at its next FRAC meeting. In addition, OCC will publish an Information Memo to all Clearing Members describing the proposed changes and will provide additional periodic Information Memo updates prior to the implementation date. Additionally, OCC will perform targeted and direct outreach with Clearing Members that would be most impacted by the proposed change, and OCC would work closely with such Clearing Members to coordinate the implementation and to discuss the impact and timing of any required collateral deposits that may result from the proposed change.<sup>25</sup>

## Implementation Timeframe

OCC plans to implement the proposed changes on May 20, 2019, provided that all necessary regulatory approvals are received by that date. If all regulatory approvals are not received by May 20,

<sup>23</sup> The OCC Roundtable was established to bring Clearing Members, exchanges and OCC together to discuss industry and operational issues. It is comprised of representatives of senior OCC staff, participant exchanges and Clearing Members, representing the diversity of OCC's membership in industry segments, OCC-cleared volume, business type, operational structure and geography.

<sup>24</sup> The Financial Risk Advisory Council is a working group comprised of exchanges, Clearing Members and indirect participants of OCC.

<sup>25</sup> Specifically, OCC will discuss with those Clearing Members how they plan to satisfy any increase in their margin requirements associated with the proposed change.

2019, or if implementation on that date becomes otherwise impractical, OCC will implement the proposed changes within thirty (30) days after the date that OCC receives all necessary regulatory approvals for the proposed changes. OCC will announce any alternative implementation date of the proposed changes by an Information Memo posted to its public website at least one week prior to implementation.

## (2) Statutory Basis

OCC believes that the proposed rule change is consistent with Section 17A of the Act<sup>26</sup> and the rules thereunder applicable to OCC. Section 17A(b)(3)(F) of Act<sup>27</sup> requires that the rules of a clearing agency be designed to promote the prompt and accurate clearance and settlement of securities and derivatives transactions and assure the safeguarding of securities and funds which are in the custody or control of the clearing agency or for which it is responsible. The purpose of the proposed rule change is to introduce enhancements to OCC's margin methodology so that OCC's margin models reflect more current market information for Volatility Index Futures; use a statistical distribution for modeling proportionate returns of the "synthetic" futures, which OCC believes has a better "goodness of fit" to the historical data and allows for more appropriate modeling of observed asymmetry of the distribution; and reduce procyclicality in the model.

The main feature of the proposed model, relative to the current model, is the replacement of the underlying Volatility Index itself as a risk factor by risk factors that are based on observed futures prices (*i.e.*, the "synthetic" futures contracts). OCC believes that using "synthetic" futures in its daily re-estimation process would allow OCC's econometric model for Volatility Index Futures to reflect more current market information and achieve better coverage across the term curve. As a result, OCC believes the proposed changes would result more accurate margin requirements for Clearing Members under the current market conditions that respond more appropriately to changes in market volatility. In addition, OCC believes that the proposed change to an asymmetrical NRIG statistical distribution would lead to more consistent treatment of returns both on the upside as well as downside of the distribution and therefore result in margin requirements for Volatility Index Futures that respond more appropriately to changes in market

<sup>26</sup> 15 U.S.C. 78q-1.

<sup>27</sup> 15 U.S.C. 78q-1(b)(3)(F).

volatility and therefore are more accurate. Finally, the proposed rule change would also enhance OCC's approach for modeling Volatility Index Futures by introducing a floor on variance estimates in the model to mitigate procyclicality.

The proposed model would be used by OCC to calculate margin requirements designed to limit its credit exposures to participants, and OCC uses the margin it collects from a defaulting Clearing Member to protect other Clearing Members from losses as a result of the default and ensure that OCC is able to continue the prompt and accurate clearance and settlement of its cleared products. As a result, OCC believes the proposed rule change is designed to promote the prompt and accurate clearance and settlement of securities and derivatives transactions and assure the safeguarding of securities and funds in its custody or control in accordance with Section 17A(b)(3)(F) of the Act.<sup>28</sup>

Rule 17Ad-22(b)(1)<sup>29</sup> requires that a registered clearing agency that performs central counterparty services establish, implement, maintain and enforce written policies and procedures reasonably designed to measure its credit exposures to its participants at least once a day and limit its exposures to potential losses from defaults by its participants under normal market conditions so that the operations of the clearing agency would not be disrupted and non-defaulting participants would not be exposed to losses that they cannot anticipate or control. As described above, the proposed rule change would introduce new model enhancements for OCC's cleared Volatility Index Futures. OCC would use the risk-based model enhancements described herein to measure its credit exposures to its participants on a daily basis and determine margin requirements based on such calculations. OCC believes that the proposed enhancements would result in more accurate and responsive margin requirements by ensuring that OCC's margin models reflect more current market information for Volatility Index Futures and using an asymmetric distribution in its model that has a better "goodness of fit" to the historical data and allows for more appropriate modeling of observed asymmetry of the distribution. The proposed rule change would also introduce a new floor on variance estimates in the model to mitigate procyclicality. OCC believes the proposed rule change is therefore

designed to ensure that OCC sets margin requirements that would serve to limit OCC's exposures to potential losses from defaults by its participants under normal market conditions so that the operations of OCC would not be disrupted, and non-defaulting participants would not be exposed to losses that they cannot anticipate or control. Accordingly, OCC believes the proposed rule change is consistent with Rule 17Ad-22(b)(1).<sup>30</sup>

Rule 17Ad-22(b)(2)<sup>31</sup> further requires, in part, that a registered clearing agency that performs central counterparty services establish, implement, maintain and enforce written policies and procedures reasonably designed to limit its credit exposures to participants under normal market conditions and use risk-based models and parameters to set margin requirements. As noted above, OCC would use the proposed model enhancements to calculate margin requirements for Volatility Index Futures in a manner designed to limit its credit exposures to participants under normal market conditions. Moreover, OCC believes that the proposed risk-based model enhancements for Volatility Index Futures would result in more accurate and responsive margin requirements for OCC's Clearing Members and would introduce an asymmetric distribution into its model that has a better "goodness of fit" to the historical data and allows for more appropriate modeling of observed asymmetry of the distribution. The proposed floor on variance estimates would also help to reduce procyclicality in margin requirements for Volatility Index Futures. The risk-based model would therefore be used to calculate margin requirements designed to limit OCC's credit exposures to participants under normal market conditions in a manner consistent with Rule 17Ad-22(b)(2).<sup>32</sup>

Rules 17Ad-22(e)(6)(i), (iii), and (v)<sup>33</sup> further require that a covered clearing agency establish, implement, maintain and enforce written policies and procedures reasonably designed to cover its credit exposures to its participants by establishing a risk-based margin system that, among other things: (1) Considers, and produces margin levels commensurate with, the risks and particular attributes of each relevant product, portfolio, and market; (2) calculates margin sufficient to cover its

potential future exposure to participants in the interval between the last margin collection and the close out of positions following a participant default; and (3) uses an appropriate method for measuring credit exposure that accounts for relevant product risk factors and portfolio effects across products.

As described in detail above, OCC believes that the proposed model enhancements would result in more accurate, more responsive, and less procyclical margin requirements for OCC's Clearing Members clearing Volatility Index Futures, with such margin serving to protect other Clearing Members from losses arising as a result of a Clearing Member default. The proposed changes are intended to ensure that OCC's margin models reflect more current market information for Volatility Index Futures and would introduce an asymmetric distribution into its model that has a better "goodness of fit" to the historical data and allows for more appropriate modeling of the observed asymmetry of the distribution. Additionally, OCC would introduce a floor on variance estimates in the model to limit procyclicality. OCC therefore believes the proposed changes are reasonably designed to consider and produce margin levels commensurate with the risks and particular attributes of OCC's cleared Volatility Index Futures, calculate margin sufficient to cover its potential future exposure to participants in the interval between the last margin collection and the close out of positions following a participant default, and apply an appropriate method for measuring credit exposure that accounts for risk factors and portfolio effects of Volatility Index Futures in a manner consistent with Rules 17Ad-22(e)(6)(i), (iii), and (v).<sup>34</sup>

The proposed rule changes are not inconsistent with the existing rules of OCC, including any other rules proposed to be amended.

#### *(B) Clearing Agency's Statement on Burden on Competition*

Section 17A(b)(3)(I) requires that the rules of a clearing agency do not impose any burden on competition not necessary or appropriate in furtherance of the purposes of Act.<sup>35</sup> OCC does not believe that the proposed rule change would impact or impose any burden on competition. The proposed risk model enhancements would apply to all Clearing Members clearing Volatility Index Futures at OCC. The overall impact of the proposed changes will be

<sup>30</sup> *Id.*

<sup>31</sup> 17 CFR 240.17Ad-22(b)(2).

<sup>32</sup> *Id.*

<sup>33</sup> 17 CFR 240.17Ad-22(e)(6)(i), (iii), and (v).

<sup>34</sup> *Id.*

<sup>35</sup> 15 U.S.C. 78q-1(b)(3)(I).

<sup>28</sup> *Id.*

<sup>29</sup> 17 CFR 240.17Ad-22(b)(1).

mixed and depend on the composition of the portfolio in question. For instance, if a Clearing Member's portfolio is comprised of hedged spread positions in Volatility Index Futures along the term structure, then margins could be much lower when compared to a portfolio that is heavily short the front month futures contract. While at a product level, margins are identical for futures contracts, it is the increased term structure correlations that aid in providing increased offsets depending on the portfolio. OCC does not believe that the proposed rule change would unfairly inhibit access to OCC's services or disadvantage or favor any particular user in relationship to another user. In addition, the proposed rule change would be applied uniformly to all Clearing Members in establishing their margin requirements.

For the foregoing reasons, OCC believes that the proposed rule change is in the public interest, would be consistent with the requirements of the Act applicable to clearing agencies, and would not impact or impose a burden on competition.

*(C) Clearing Agency's Statement on Comments on the Proposed Rule Change Received From Members, Participants or Others*

Written comments on the proposed rule change were not and are not intended to be solicited with respect to the proposed rule change and none have been received.

**III. Date of Effectiveness of the Proposed Rule Change and Timing for Commission Action**

Within 45 days of the date of publication of this notice in the **Federal Register** or within such longer period up to 90 days (i) as the Commission may designate if it finds such longer period to be appropriate and publishes its reasons for so finding or (ii) as to which the self-regulatory organization consents, the Commission will:

- (A) By order approve or disapprove the proposed rule change, or
- (B) institute proceedings to determine whether the proposed rule change should be disapproved.

**IV. Solicitation of Comments**

Interested persons are invited to submit written data, views and arguments concerning the foregoing, including whether the proposed rule change is consistent with the Exchange Act. Comments may be submitted by any of the following methods:

*Electronic Comments*

- Use the Commission's internet comment form (<http://www.sec.gov/rules/sro.shtml>); or
- Send an email to [rule-comments@sec.gov](mailto:rule-comments@sec.gov). Please include File Number SR-OCC-2019-002 on the subject line.

*Paper Comments*

- Send paper comments in triplicate to Secretary, Securities and Exchange Commission, 100 F Street NE, Washington, DC 20549-1090.

All submissions should refer to File Number SR-OCC-2019-002. This file number should be included on the subject line if email is used. To help the Commission process and review your comments more efficiently, please use only one method. The Commission will post all comments on the Commission's internet website (<http://www.sec.gov/rules/sro.shtml>). Copies of the submission, all subsequent amendments, all written statements with respect to the proposed rule change that are filed with the Commission, and all written communications relating to the proposed rule change between the Commission and any person, other than those that may be withheld from the public in accordance with the provisions of 5 U.S.C. 552, will be available for website viewing and printing in the Commission's Public Reference Room, 100 F Street NE, Washington, DC 20549, on official business days between the hours of 10:00 a.m. and 3:00 p.m. Copies of such filing also will be available for inspection and copying at the principal office of OCC and on OCC's website at <https://www.theocc.com/about/publications/bylaws.jsp>.

All comments received will be posted without change. Persons submitting comments are cautioned that we do not redact or edit personal identifying information from comment submissions. You should submit only information that you wish to make available publicly.

All submissions should refer to File Number SR-OCC-2019-002 and should be submitted on or before April 24, 2019.

For the Commission, by the Division of Trading and Markets, pursuant to delegated authority.<sup>36</sup>

**Eduardo A. Aleman,**  
*Deputy Secretary.*

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**BILLING CODE 8011-01-P**

<sup>36</sup> 17 CFR 200.30-3(a)(12).

**SECURITIES AND EXCHANGE COMMISSION**

[Release No. 34-85439; File No. SR-ICEEU-2019-005]

**Self-Regulatory Organizations; ICE Clear Europe Limited; Notice of Filing and Immediate Effectiveness of Proposed Rule Change Relating To Adoption of a New Futures & Options Capital-to-Margin and Shortfall Margin Policy (the "F&O Margin Shortfall Policy")**

March 28, 2019.

Pursuant to Section 19(b)(1) of the Securities Exchange Act of 1934 ("Act"),<sup>1</sup> and Rule 19b-4 thereunder,<sup>2</sup> notice is hereby given that on March 15, 2019, ICE Clear Europe Limited ("ICE Clear Europe") filed with the Securities and Exchange Commission ("Commission") the proposed rule changes described in Items I, II and III below, which Items have been prepared by ICE Clear Europe. ICE Clear Europe filed the proposed rule change pursuant to Section 19(b)(3)(A) of the Act<sup>3</sup> and Rule 19b-4(f)(4)<sup>4</sup> thereunder, such that the proposed rule change was immediately effective upon filing with the Commission. The Commission is publishing this notice to solicit comments on the proposed rule change from interested persons.

**I. Clearing Agency's Statement of the Terms of Substance of the Proposed Rule Change Notice**

ICE Clear Europe proposes to adopt a new F&O Margin Shortfall Policy. These revisions do not involve any changes to the ICE Clear Europe Clearing Rules or Procedures.<sup>5</sup>

**II. Clearing Agency's Statement of the Purpose of, and Statutory Basis for, the Proposed Rule Change**

In its filing with the Commission, ICE Clear Europe included statements concerning the purpose of and basis for the proposed rule change and discussed any comments it received on the proposed rule change. The text of these statements may be examined at the places specified in Item IV below. ICE Clear Europe has prepared summaries, set forth in sections (A), (B), and (C) below, of the most significant aspects of such statements.

<sup>1</sup> 15 U.S.C. 78s(b)(1).

<sup>2</sup> 17 CFR 240.19b-4.

<sup>3</sup> 15 U.S.C. 78s(b)(3)(A).

<sup>4</sup> 17 CFR 240.19b-4(f)(4).

<sup>5</sup> Capitalized terms used but not defined herein have the meanings specified in the ICE Clear Europe Clearing Rules (the "Rules").