

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 a.m. and 3 p.m. Copies of the filing also will be available for inspection and copying at the principal office of the Exchange. Do not include personal identifiable information in submissions; you should submit only information that you wish to make available publicly. We may redact in part or withhold entirely from publication submitted material that is obscene or subject to copyright protection. All submissions should refer to file number SR-CboeBZX-2023-107 and should be submitted on or before February 6, 2024.

For the Commission, by the Division of Trading and Markets, pursuant to delegated authority.⁵¹

Sherry R. Haywood,
Assistant Secretary.

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SECURITIES AND EXCHANGE COMMISSION

Release No. 34-99300; File No. SR-CboeEDGX-2023-083]

Self-Regulatory Organizations; Cboe EDGX Exchange, Inc.; Notice of Filing of a Proposed Rule Change To Make Permanent Pilot Programs in Connection With the Listing and Trading of P.M.-Settled Series on Certain Broad-Based Index Options

January 9, 2024.

Pursuant to Section 19(b)(1) of the Securities Exchange Act of 1934 ("Act"),¹ and Rule 19b-4 thereunder,² notice is hereby given that on December 26, 2023, Cboe EDGX Exchange, Inc. ("Exchange" or "EDGX") 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 the Exchange. The Commission is publishing this notice to solicit comments on the proposed rule change from interested persons.

I. Self-Regulatory Organization's Statement of the Terms of Substance of the Proposed Rule Change

The Exchange proposes to make permanent the operation of its programs that allow the Exchange to list options

on the Mini-SPX Index ("XSP options") with P.M.-settlement and to list broad-based index options with nonstandard expirations ("Nonstandard Expirations Pilot Program").

The text of the proposed rule change is available on the Exchange's website (http://markets.cboe.com/us/equities/regulation/rule_filings/EDGX/), at the Exchange's Office of the Secretary, and at the Commission's Public Reference Room.

II. Self-Regulatory Organization's Statement of the Purpose of, and Statutory Basis for, the Proposed Rule Change

In its filing with the Commission, the Exchange 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. The Exchange has prepared summaries, set forth in sections A, B, and C below, of the most significant aspects of such statements.

A. Self-Regulatory Organization's Statement of the Purpose of, and Statutory Basis for, the Proposed Rule Change

1. Purpose

The Exchange proposes to make permanent its XSPPM Pilot Program and its Nonstandard Expirations Pilot Program. Specifically, the Exchange proposes to be permitted to list on a permanent basis (1) XSP options with third-Friday-of-the-month expiration dates whose exercise settlement value is derived from closing prices on the last trading day prior to expiration ("P.M.-settled") ("XSPPM options") and (2) options on broad-based indexes that are P.M.-settled and expire (a) on any Monday, Wednesday, or Friday (other than the third Friday-of-the-month or days that coincide with an end-of-month ("EOM") expiration) ("Weekly Expirations") and (b) on the last day of the trading month ("EOM Expirations").³ The Securities and Exchange Commission (the "Commission") approved a rule change that established a pilot program under which the Exchange is permitted to list (1) XSP options with third-Friday-of-the-month expiration dates that are P.M.-settled (the "XSPPM Pilot

Program") and (2) options on broad-based indexes with Weekly Expirations and Monthly Expirations (the "Nonstandard Expirations Pilot Program" and, with the XSPPM Pilot Program, the "Pilot Programs").⁴ XSPPM Options, Weekly Expirations, and EOMs are cash-settled and have European-style exercise. The Pilot Programs became effective on a pilot basis for a period of twelve months from the date of the approval of the Pilot Programs⁵ and were subsequently extended.⁶ Pursuant to Rule 29.11(a)(6) and (j)(3), the Pilot Programs are scheduled to expire on May 6, 2024.

⁴ See Securities Exchange Act Release No. 85182 (February 22, 2019), 84 FR 6846 (February 28, 2019) (SR-CboeEDGX-2018-037) ("Pilot Programs Approval Order"). Under the terms of the Nonstandard Expirations Pilot Program, Weekly Expirations and EOMs are permitted on any broad-based index that is eligible for regular options trading.

⁵ See *id.*

⁶ See 88054 (January 27, 2020), 85 FR 5761 (January 31, 2020) (Notice of Filing and Immediate Effectiveness of a Proposed Rule Change To Extend the Pilot Programs in Connection With the Listing and Trading of P.M.-Settled Series on Certain Broad-Based Index Options) (SR-CboeEDGX-2020-002); 88787 (April 30, 2020), 85 FR 26995 (May 6, 2020) (Notice of Filing and Immediate Effectiveness of a Proposed Rule Change To Extend the Pilot Programs in Connection With the Listing and Trading of P.M.-Settled Series on Certain Broad-Based Index Options) (SR-CboeEDGX-2020-019); 90253 (October 22, 2020) 85 FR 68390 (October 28, 2020) (Notice of Filing and Immediate Effectiveness of a Proposed Rule Change To Extend the Pilot Programs in Connection With the Listing and Trading of P.M.-Settled Series on Certain Broad-Based Index Options) (SR-CboeEDGX-2021-050); 91700 (April 28, 2021), 86 FR 23770 (May 4, 2021) (Notice of Filing and Immediate Effectiveness of a Proposed Rule Change To Extend the Pilot Programs in Connection With the Listing and Trading of P.M.-Settled Series on Certain Broad-Based Index Options) (SR-CboeEDGX-2021-022); 93453 (October 28, 2021), 86 FR 60667 (November 3, 2021) (Notice of Filing and Immediate Effectiveness of a Proposed Rule Change To Extend the Pilot Programs in Connection With the Listing and Trading of P.M.-Settled Series on Certain Broad-Based Index Options) (SR-CboeEDGX-2021-047); 94803 (April 27, 2022), 87 FR 26237 (May 3, 2022) (Notice of Filing and Immediate Effectiveness of a Proposed Rule Change To Extend the Pilot Programs in Connection With the Listing and Trading of P.M.-Settled Series on Certain Broad-Based Index Options) (SR-CboeEDGX-2022-025); 96209 (November 2, 2022), 87 FR 67520 (November 8, 2022) (Notice of Filing and Immediate Effectiveness of a Proposed Rule Change To Extend the Pilot Programs in Connection With the Listing and Trading of P.M.-Settled Series on Certain Broad-Based Index Options) (SR-CboeEDGX-2022-047); 97443 (May 5, 2023) 88 FR 30356 (May 11, 2023) (Notice of Filing and Immediate Effectiveness of a Proposed Rule Change To Extend the Pilot Programs in Connection With the Listing and Trading of P.M.-Settled Series on Certain Broad-Based Index Options) (SR-CboeEDGX-2023-035); and 98640 (September 28, 2023), 88 FR 68846 (October 4, 2023) (SR-CboeEDGX-2023-061) (Notice of Filing and Immediate Effectiveness of a Proposed Rule Change To Extend the Pilot Programs in Connection With the Listing and Trading of P.M.-Settled Series on Certain Broad-Based Index Options).

³ In addition to proposing to delete the language in Rule 29.11(a)(6) and (j)(3) regarding the expiration date of the Pilot Programs, the Exchange proposes to delete the word "pilot" from the heading of Rule 29.11(j) and make a corresponding change to Rules 29.11(c)(5)(C).

⁵¹ 17 CFR 200.30-3(a)(12).

¹ 15 U.S.C. 78s(b)(1).

² 17 CFR 240.19b-4.

The Exchange hereby requests that the Commission approve the Pilot Programs on a permanent basis.

By way of background, when cash-settled⁷ index options were first introduced in the 1980s, settlement was based on the closing value of the underlying index on the option's expiration date. The Commission later became concerned about the impact of P.M.-settled, cash-settled index options on the markets for the underlying stocks at the close on expiration Fridays. Specifically, certain episodes of price reversals around the close on quarterly expiration dates attracted the attention of regulators to the possibility that the simultaneous expiration of index futures, futures options, and options might be inducing abnormal volatility in the index value around the close.⁸ Academic research at the time provided at least some evidence suggesting that futures and options expirations contributed to excess volatility and reversals around the close on those days.⁹ In light of the concerns with P.M. settlement and to help ameliorate the price effects associated with expirations of P.M.-settled, cash-settled index products, in 1987, the Commodity Futures Trading Commission ("CFTC") approved a rule change by the Chicago Mercantile Exchange ("CME") to provide for A.M. settlement¹⁰ for index futures, including futures on the S&P 500.¹¹ The Commission subsequently approved a rule change by Cboe Options, Inc. ("Cboe Options") to list and trade A.M.-settled SPX options.¹² In 1992, the Commission approved Cboe

Options' proposal to transition all of its European-style cash-settled options on the S&P 500 Index to A.M. settlement;¹³ however, in 1993, the Commission approved a rule allowing Cboe Options to list P.M.-settled options on certain broad-based indices, including the S&P 500, expiring at the end of each calendar quarter ("Quarterly Index Expirations") (since adopted as permanent).¹⁴ Starting in 2006, the Commission approved numerous rule changes, on a pilot basis, permitting the Cboe Options to introduce other index options, including SPX options, with P.M.-settlement. These include P.M.-settled index options expiring weekly (other than the third Friday of the month) and at the end of each month ("EOM"),¹⁵ P.M.-settled options on the S&P 500 Index that expire on the third Friday-of-the-month ("SPXPM"),¹⁶ as well as P.M.-settled Mini-SPX Index ("XSP") options and Mini-Russell 2000 Index ("MRUT") options expiring on the third Friday of the month.¹⁷ As noted above, the Commission approved a rule to allow the Exchange to list XSPPM options and broad-based index options with Weekly and EOM Expirations.¹⁸ The Commission recently approved proposed rule changes to make Cboe Options' pilot programs to list P.M.-settled index options (including pilot

programs substantively the same as the Pilot Programs) permanent.¹⁹

As stated above, since its inception in 2019, the Exchange has continuously extended the Pilot Program periods and, during the course of the Pilot Programs and in support of the extensions of the Pilot Programs, the Exchange has submitted reports to the Commission regarding the Pilot Programs that detail the Exchange's experience with the Pilot Programs, pursuant to the Pilot Programs Approval Order.²⁰ Specifically, the Exchange has submitted annual Pilot Program reports to the Commission that contain an analysis of volume, open interest, and trading patterns. In addition, for series that exceed certain minimum open interest parameters, the annual report would provide analysis of index price volatility and, if needed, share trading activity. The Exchange has also submitted periodic interim reports that contain some, but not all, of the information contained in the annual reports (together with the periodic interim reports, the "pilot reports").²¹

The pilot reports for the XSPPM Pilot Program contained the following volume and open interest data:

- (1) monthly volume aggregated for all trades;
- (2) monthly volume aggregated by expiration date;
- (3) monthly volume for each individual series;
- (4) month-end open interest aggregated for all series;
- (5) month-end open interest for all series aggregated by expiration date; and
- (6) month-end open interest for each individual series.

The pilot reports for the Nonstandard Expirations Pilot Program contained the following volume and open interest data:

- (1) monthly volume aggregated for all Weekly and EOM trades;
- (2) volume in Weekly and EOM series aggregated by expiration date;

¹⁹ See Securities Exchange Act Release Nos. 98454 (September 20, 2023) (SR-CBOE-2023-005) (order approving proposed rule change to make permanent the operation of a program that allows the Exchange to list p.m.-settled third Friday-of-the-month SPX options series); 98455 (September 20, 2023) (SR-CBOE-2023-019) (order approving proposed rule change to make permanent the operation of a program that allows the Exchange to list p.m.-settled third Friday-of-the-month XSP and MRUT options series); and 98456 (September 20, 2023) (SR-CBOE-2023-020) (order approving proposed rule change to make the nonstandard expirations pilot program permanent).

²⁰ See *supra* note 4.

²¹ In providing the pilot reports to the Commission, the Exchange previously requested confidential treatment of the pilot reports under the Freedom of Information Act ("FOIA"). See 5 U.S.C. 552.

⁷ The seller of a "cash-settled" index option pays out the cash value of the applicable index on expiration or exercise. A "physically settled" option, like equity and ETF options, involves the transfer of the underlying asset rather than cash. See Characteristics and Risks of Standardized Options, available at: <https://www.theocc.com/Company-Information/Documents-and-Archives/Options-Disclosure-Documents>.

⁸ The close of trading on the quarterly expiration Friday (*i.e.*, the third Friday of March, June, September and December), when options, index futures, and options on index futures all expire simultaneously, became known as the "triple witching hour."

⁹ See Securities and Exchange Commission, Division of Economic Risk and Analysis, Memorandum, Cornerstone Analysis of PM Cash-Settled Index Option Pilots (February 2, 2021) ("DERA Staff PM Pilot Memo") at 5, available at: https://www.sec.gov/files/Analysis_of_PM_Cash-Settled_Index_Option_Pilots.pdf.

¹⁰ The exercise settlement value for an A.M.-settled index option is determined by reference to the reported level of the index as derived from the opening prices of the component securities on the business day before expiration.

¹¹ See Securities Exchange Act Release No. 24367 (April 17, 1987), 52 FR 13890 (April 27, 1987) (SR-CBOE-87-11) (noting that CME moved S&P 500 futures contract's settlement value to opening prices on the delivery date).

¹² See *id.*

¹³ See Securities Exchange Act Release No. 30944 (July 21, 1992), 57 FR 33376 (July 28, 1992) (SR-CBOE-92-09). Thereafter, the Commission approved proposals by the options markets to transfer most of their cash-settled index products to A.M. settlement.

¹⁴ See Securities Exchange Act Release No. 31800 (February 1, 1993), 58 FR 7274 (February 5, 1993) (SR-CBOE-92-13); see also Securities Exchange Act Release Nos. 54123 (July 11, 2006), 71 FR 40558 (July 17, 2006) (SR-CBOE-2006-65); and 60164 (June 23, 2009), 74 FR 31333 (June 30, 2009) (SR-CBOE-2009-029).

¹⁵ See Securities Exchange Act Release Nos. 62911 (September 14, 2010), 75 FR 57539 (September 21, 2010) (SR-CBOE-2009-075); 76529 (November 30, 2015), 80 FR 75695 (December 3, 2015) (SR-CBOE-2015-106); 78132 (June 22, 2016), 81 FR 42018 (June 28, 2016) (SR-CBOE-2016-046); and 78531 (August 10, 2016), 81 FR 54643 (August 16, 2016) (SR-CBOE-2016-046).

¹⁶ See Securities Exchange Act Release No. 68888 (February 8, 2013), 78 FR 10668 (February 14, 2013) (SR-CBOE-2012-120). Pursuant to Securities Exchange Act Release No. 80060 (February 17, 2017), 82 FR 11673 (February 24, 2017) (SR-CBOE-2016-091), the Exchange moved third-Friday P.M.-settled options into the S&P 500 Index options class, and as a result, the trading symbol for P.M.-settled S&P 500 Index options that have standard third Friday-of-the-month expirations changed from "SPXPM" to "SPXW." This change went into effect on May 1, 2017, pursuant to Cboe Options Regulatory Circular RG17-054.

¹⁷ See Securities Exchange Act Release Nos. 70087 (July 31, 2013), 78 FR 47809 (August 6, 2013) (SR-CBOE-2013-055); and 91067 (February 5, 2021) 86 FR 9108 (February 11, 2021) (SR-CBOE-2020-116).

¹⁸ See *supra* note 4.

(3) month-end open interest aggregated for all Weekly and EOM series;

(4) month-end open interest for EOM series aggregated by expiration date and week-ending open interest for Weekly series aggregated by expiration date;

(5) ratio of monthly aggregate volume in Weekly and EOM series to total monthly class volume; and

(6) ratio of month-end open interest in EOM series to total month-end class open interest and ratio of week-ending open interest in EOM series to total week-ending open interest.

The annual reports for the Pilot Programs also contained the information noted in respective Items (1) through (6) above for Expiration Friday, A.M.-settled series, if applicable, for the period covered in the pilot report. With respect to the Nonstandard Expirations Pilot Program, upon request by the Commission, the Exchange provided data files containing: (1) Weekly and EOM option volume data aggregated by series, and (2) Weekly week-ending open interest for expiring series and EOM month-end open interest for expiring series. In the annual reports, the Exchange also provided the following analyses of trading patterns in XSPPM options and index options with Weekly and EOM Expirations:

- with respect to the XSPPM Pilot Program, a time series analysis of open interest and an analysis of the distribution of trade sizes; and
- with respect to the Nonstandard Expirations Pilot Program, Weekly and EOM option volume data aggregated by series, and Weekly open interest for expiring series and EOM month-end open interest for expiring series.

Finally, for series that exceed certain minimum parameters,²² the annual reports contained the following analysis related to index price changes and underlying share trading volume at the close on Expiration Fridays:

(1) a comparison of index price changes at the close of trading on a given Expiration Friday with comparable price changes from a control sample. The data includes a calculation of percentage price changes for various time intervals and compare that information to the respective control sample. Raw percentage price change data as well as percentage price change data normalized for prevailing market volatility, as measured by the Cboe Volatility Index (VIX), is provided; and

(2) a calculation of share volume for a sample set of the component securities representing an upper limit on share trading that could be attributable to expiring in-the-money series. The data includes a comparison of the calculated share volume for securities in the sample set to the average daily trading volumes of those securities over a sample period.

Also, during the course of the Pilot Programs, the Exchange provided the Commission with any additional data or analyses the Commission requested if it deemed such data or analyses necessary to determine whether the Nonstandard Expirations Pilot Program was consistent with the Exchange Act. The Exchange has made public on its website all data and analyses previously submitted to the Commission under the Nonstandard Expirations Pilot Program,²³ and will continue to make public any data and analyses it submits to the Commission while the Pilot Programs is still in effect.

The Exchange has concluded that the Pilot Programs do not negatively impact market quality or raise any unique or prohibitive regulatory concerns. The Exchange has not identified any evidence from the pilot data indicating that the trading of XSPPM, Weekly options, and EOM options has any adverse impact on fair and orderly markets on Expiration Fridays for the underlying indexes or the underlying securities comprising those indexes, nor have there been any observations of abnormal market movements attributable to XSPPM, Weekly and EOM options from any market participants that have come to the attention of the Exchange.

Based on a study conducted by the Commission's Division of Economic and Risk Analysis ("DERA") staff on the pilot data from 2006 through 2018,²⁴ and the Exchange's review of the pilot data from 2019 through 2021, the size of the market for P.M.-settled SPX options (including quarterly, weekly, EOM and third Friday expirations) since 2007 has grown from a trivial portion of the overall market to a substantial share

(from around 0.1% of open interest in 2007 to 30% in 2021).²⁵ Notional value of open interest in P.M.-settled SPX options increased from approximately a median of \$1.5 billion in 2007 to \$1.9 trillion in 2021, approximately 1260 times its value in 2007. Notional open interest in A.M.-settled SPX options was already hovering around a median of \$1.4 trillion in 2007, and it has since increased to approximately \$4.4 trillion in 2021. It is also important to note that open interest on expiring P.M.-settled SPX options, as compared to A.M.-settled options, is spread out across a greater number of expiration dates, which results in a smaller percentage of open interest expiring on any one date, thus mitigating concerns that SPXPM option expiration may have a disruptive effect on the market.²⁶ Daily trading volume in P.M.-settled SPX options has increased from a median of about 700 contracts in 2007 to nearly 1.9 million contracts in 2021,²⁷ and now exceeds trading volume in A.M.-settled SPX options.

Moreover, the DERA staff study of the P.M.-settled SPX options pilot data (2006 through 2018) did not identify any significant economic impact on S&P 500 futures,²⁸ the S&P 500, or the underlying component securities of the S&P 500 surrounding the close. For purposes of the study, volatility was by and large measured by using the standard deviation²⁹ of one-minute returns of S&P 500 futures values and the index value during regular hours on each day reviewed (excluding the first and last 15 minutes of trading) and then compared with the standard deviation of one-minute returns (for S&P 500 futures, the S&P 500, and the underlying component securities of the S&P 500) over the last 15 minutes of a trading

²⁵ The DERA staff study reviewed and provided statistics for market share, median notional value of open interest and median volume in 2007 and in 2018. The Exchange provides updated statistics for market share, median notional value of open interest and median volume in 2021, replacing the 2018 statistics provided in the Commission staff study.

²⁶ See DERA Staff PM Pilot Memo, at 2.

²⁷ The Exchange notes that the DERA staff study used two-sided volume data for the median volume in 2007 and in 2018; therefore, the Exchange provides two-sided volume data for the median volume in 2021.

²⁸ Futures on the S&P 500 experience high volume and liquidity both before and after the close of the underlying market. Therefore, futures are a useful measure of abnormal volatility surrounding the close and the open. See DERA Staff PM Pilot Memo, at 14. The Exchange agrees with this approach.

²⁹ Standard deviation applied to a rate of return (in this case, one-minute) of an instrument can indicate that instrument's historical volatility. The greater the standard deviation, the greater the variance between price and the mean, which indicates a larger price range, *i.e.*, higher volatility.

²² The Exchange and the Commission determined the minimum open interest parameters, control sample, time intervals, method for randomly selecting the component securities, and sample periods.

²³ Available at <https://www.cboe.com/aboutcboe/legal-regulatory/national-market-system-plans/pm-settlement-spxpm-data>.

²⁴ See DERA Staff PM Pilot Memo, at 13 ("Option settlement quantity data for A.M.- and P.M.-settled options were obtained from the Cboe, including the number of contracts that settled in-the-money for each exchange-traded option series on the S&P 500 index . . . on expiration days from January 20, 2006 through December 31, 2018. Daily open interest and volume data for [SPX] option series were also obtained from Cboe, including open interest data from January 3, 2006 through December 31, 2018 and trading volume data from January 3, 2006 through December 31, 2018.")

day.³⁰ Using this as a general measure,³¹ the DERA staff study then reviewed whether, and to what extent, the settlement quantity of SPXPM options and the levels of open interest in SPXPM options on expiration days (as compared to non-expiration days) may be associated with general price volatility and price reversals for S&P 500 futures, the S&P 500, and the underlying component securities of the S&P 500 near the close. From its review of the study, the Exchange agrees that, although volatility before the market close is generally higher than during the rest of the trading day, there is no evidence of any significant adverse economic impact to the futures, index, or underlying index component securities markets as a result of the quantity of P.M.-settled SPX options that settle at the close or the amount of expiring open interest in P.M.-settled SPX options. For example, the largest settlement event that occurred during the time period of the study (a settlement of \$100.4 billion of notional on December 29, 2017) had an estimated impact on the futures price of only approximately 0.02% (a predicted impact of \$0.54 relative to a closing futures price of \$2,677).

In particular, the DERA staff study found that an additional P.M.-settled SPX options settlement quantity equal to \$10 billion in notional value is associated with a marginal impact on futures prices during the last 15 minutes of the trading day of only about \$0.06 (where the hypothetical index level is 2,500), additional expiring open interest in P.M.-settled SPX options equal to \$10 billion in notional value is associated with a marginal impact on futures prices during the last 15 minutes of the trading day of only about \$0.05 (assumed index level is 2,500). Also, an additional increase in settlement quantity or in expiring open interest, each equal to \$20 million in notional value, did not result in any meaningful futures price reversals near the close (neither was

found to cause a price reversal of over one standard deviation³²).

Likewise, the study identified that an additional total P.M.-settled SPX options settlement quantity equal to \$10 billion in notional value corresponds to price movement in the S&P 500 of only about \$0.08 (assuming an index level of 2,500) during the last 15 minutes of the trading day, and that additional expiring open interest equal to \$10 billion in notional value corresponds to a price movement in the S&P 500 of only about \$0.06 (assuming an index level of 2,500) during the last 15 minutes of the trading day. The study also identified that it would take an increase of \$34 billion in notional value of total settlement quantity and of expiring open interest for one additional S&P 500 price reversal of greater than two standard deviations to occur in the last 15 minutes before the market close. Also, regarding potential impact to S&P 500 component securities, it would take an increase in total P.M.-settled SPX options settlement quantity equal to \$20 billion to effect a price movement of only approximately \$0.03 for a \$200 stock, an increase in expiring open interest in P.M.-settled SPX options equal to \$10 billion to effect a price movement less than half a standard deviation, and an increase in total P.M.-settled SPX settlement quantity equal to \$7 billion to achieve a price reversal greater two standard deviations.

The study employed the same metrics to determine whether there is greater price volatility for S&P 500 futures, the S&P 500, and the component securities of the S&P 500 related to SPXPM option settlements during an environment of high market volatility (*i.e.*, on days in which the VIX Index was in the top 10% of closing index values) and did not identify indicators of any significant economic impact on these markets near the close as a result of the P.M.-settled SPX options settlement.³³ In addition to this, the DERA staff study, applying the same metrics and analysis as for P.M.-settled SPX options to A.M.-settled SPX options, did not identify any evidence of a statistically significant relationship between settlement quantity or expiring open interest of A.M.-settled options and volatility near the open.

Upon review of the results of the DERA staff study, the Exchange agrees that each of the above-described marginal price movements in S&P 500 futures, the S&P 500, and the S&P 500

component securities affected by increases in P.M.-settled SPX options settlement quantity and expiring open interest appear to be de minimis pricing changes from those that occur over regular trading hours (outside of the last 15 minutes of the trading day). Further, the Exchange has not observed any significant economic impact or other adverse effects on the market from similar reviews of its pilot reports and data submitted after 2018.³⁴ In its review of a sample of the pilot data from 2019 through 2021, the Exchange similarly measured volatility over the final fifteen minutes of each trading day by taking the standard deviation of rolling one-minute returns of the S&P 500 level (excluding the first and last fifteen minutes of trading) and comparing such with the standard deviation of one-minute returns³⁵ of the S&P 500 level, over the last 15 minutes of a trading day. The Exchange identified an average standard deviation ratio of 1.42 for the S&P 500 on non-expiration days and an average standard deviation ratio of 1.54 for the S&P 500 on expiration days (a ratio between expiration days and non-expiration days of 1.09). The Exchange also notes that, using the same methodology, it observed that, from 2015 through 2019,³⁶ the average standard deviation ratio for the S&P 500 on non-expiration days was 1.11 and the average standard deviation ratio for the S&P 500 on expiration days was 1.22 (a ratio between expiration days and non-expiration days of 1.10). While the average standard deviation ratio on both expiration and non-expiration days was higher in 2019 through 2021 due to overall market volatility, the ratios between the standard deviation ratios on expiration days and non-expirations days remained nearly identical between the 2015 through 2019 timeframe and the 2019 through 2021. This shows that, in cases where overall market volatility may increase, the normalized impact on expiration days to non-expiration days generally remains consistent.

In addition to this, the Exchange notes that the S&P 500 Index is rebalanced quarterly. The changes resulting from each rebalancing coincide with the third-Friday of the quarterly rebalancing month (*i.e.*, March, June, September, October and December)³⁷ and generally

³⁰ For example, if on a particular day the standard deviation of one-minute returns between 3:45 p.m. ET and 4:00 p.m. ET is 0.004 and the standard deviation of returns from 9:45 a.m. ET to 3:45 p.m. ET is 0.002, this metric would take on a value of 2 for that day, indicating that volatility during the last 15 minutes of the trading day was twice as high as it was during the rest of the trading day. See DERA Staff PM Pilot Memo, at 15; *see also* DERA Staff PM Pilot Memo, at Section V, which discusses in detail the metrics used to measure, for the purposes of the study, the extent to which the market may experience abnormal volatility surrounding SPXPM option settlement.

³¹ See DERA Staff PM Pilot Memo, at Section V, which discusses in detail the metrics used to measure, for the purposes of the study, the extent to which the market may experience abnormal volatility surrounding SPXPM option settlement.

³² See *supra* note 29.

³³ The Exchange also notes that the study did not identify any evidence that less liquid S&P 500 constituent securities experienced any greater impact from the settlement of P.M.-settled SPX options.

³⁴ Total SPX open interest volumes were examined for expiration dates over a roughly two-year period between October 2019 and November 2021.

³⁵ Calculated at every tick for the prior minute.

³⁶ November 2015 through November 2021.

³⁷ See S&P Dow Jones Indices, Equity Indices Policies & Practices, Methodology (August 2021), at 15, available at <https://www.spglobal.com/spdji/en/>

drive an increase in trading activity from investors that seek to track the S&P 500. As such, the Exchange measured volatility on quarterly rebalancing dates and found that the average standard deviation ratio was 1.62, which suggests more closing volatility on quarterly rebalance dates compared to non-quarterly expiration dates (for which the average standard deviation ratio was 1.22), thus indicating that the impact rebalancing may have on the S&P 500 is greater than any impact that P.M.-settled SPX options may have on the S&P 500.

The Exchange additionally focused its study of the post-2018 sample pilot data on reviewing for potential correlation between excess market volatility and price reversals and the hedging activity of liquidity providers. As explained in the DERA staff study, potential impact of P.M.-settled SPX options on the correlated equity markets is thought to stem from the hedging activity of liquidity providers in such options.³⁸ To determine any such potential correlation, the Exchange studied the expected action of liquidity providers that are the primary source of the hedging on settlement days. These liquidity providers generally delta-hedge their S&P 500 index exposure via S&P 500 futures and on settlement day unwind their futures positions that correspond with the delta of their in-the-money (ITM) expiring P.M.-settled SPX options. Assuming such behavior, the Exchange estimated the Market-On-Close (“MOC”) ³⁹ volume for the shares of the S&P 500 component securities (*i.e.*, “MOC share volume”) that could ultimately result from the unwinding of the liquidity providers’ futures positions by equating the notional value of the futures positions that correspond to expiring ITM open interest to the number S&P 500 component security contracts (based on the weight of each S&P 500 component security). That is, the Exchange calculated (an estimate) of the amount of MOC volume in the S&P 500 component markets attributable hedging activity as a result of expiring ITM P.M.-settled SPX options (*i.e.*, “hedging MOC”). The Exchange then: (1) compared the hedging MOC share volume to all MOC share volume on expiration days and non-expiration trading days; and (2) compared the notional value of the hedging futures positions (*i.e.*, that correspond to expiring ITM P.M.-settled SPX options

open interest) to the notional value of expiring ITM P.M.-settled SPX options open interest, the notional value of all expiring P.M.-settled SPX options open interest and the notional value of all P.M.-settled SPX options open interest.

The Exchange observed that, on average, there were approximately 25% more MOC shares executed on expiration days (332 expiration days) than non-expiration days (209 non-expiration days). While, at first glance, the volume of MOC shares executed on expiration days seems much greater than the volume executed on non-expiration days, the Exchange notes that much of this difference is attributable to just eight expiration days—the quarterly index rebalancing dates captured within the scope of the post-2018 sample pilot data. The average MOC share volume on the eight quarterly rebalancing dates was approximately 4.8 times the average MOC share volume on the non-quarterly rebalancing expiration dates; again, indicating that the impact rebalancing may have on the S&P 500 Index is greater than any impact that P.M.-settled SPX options may have on the S&P 500 Index. That is, the Exchange observed that the majority of closing volume on quarterly rebalance dates is driven by rebalancing of shares in the S&P 500, and not by P.M.-settled SPX options expiration-related hedging activity. Notwithstanding the MOC share volume on quarterly rebalancing dates, the volume of MOC shares executed on expiration days (324 expiration days) was only approximately 13% more than that on non-expiration days, substantially less than the increase in volume over non-expiration days wherein the eight index rebalancing dates are included in expiration day volume. In addition to this, the Exchange observed that the hedging MOC share volume (*i.e.*, the expected MOC share volume resulting from hedging activity in connection with expiring ITM P.M.-settled SPX options) was, on average, less than the MOC share volume on non-expiration days, and was only approximately 20% of the total MOC share volume on expiration days, indicating that other sources of MOC share volume generally exceed the volume resulting from hedging activity of expiring ITM P.M.-settled SPX options and would more likely be a source of any potential market volatility.

The Exchange also observed that, across all third-Friday expirations, the notional value of the hedging futures positions was approximately 25% of the notional value of expiring ITM P.M.-settled SPX options, approximately 3.8% of the notional value of all expiring P.M.-settled SPX options, and

approximately only 0.5% of the notional value of all P.M.-settled SPX options. As such, the estimated hedging activity from liquidity providers on expiration days is a fraction of the expiring open interest in P.M.-settled SPX options, which, the Exchange notes, is only 14% of the total open interest in P.M.-settled SPX options; thus, indicating negligible capacity for hedging activity to increase volatility in the underlying markets.

While unrelated to the initial concerns of P.M.-settlement as described above, at the request of the Commission, the Exchange recently completed an analysis intended to evaluate whether the Pilot Programs impacted the quality of the A.M.-settled option market. Specifically, the Exchange compared values of key market quality indicators (specifically, the bid-ask spread ⁴⁰ and effective spread) ⁴¹ in SPXW options (which trade on Cboe Options, an affiliated of the Exchange, pursuant to a nonstandard expiration program substantively similar to the Nonstandard Expiration Pilot Program) both before and after the introduction of Tuesday expirations and Thursday expirations for SPXW options on April 18 and May 11, 2022, respectively.⁴² Options on the Standard & Poor’s Depository Receipts S&P 500 ETF (“SPY”) were used as a control group to account for any market factors that might influence key market quality indicators. The Exchange used data from January 3, 2022 through March 4, 2022 (the two-month period prior to the introduction of SPXW options with Tuesday expirations) and data from May 11, 2022 to July 10, 2022 (the two-month period following the introduction of SPXW options with Thursday expirations).⁴³

Given the time that has passed since the implementation of the Pilot

⁴⁰ The Exchange calculated for each of SPXW options (with Monday, Wednesday, and Friday expirations) and SPY Weekly options (with Monday, Wednesday, and Friday expirations) the daily time-weighted bid-ask spread on the Exchange during its regular trading hours session, adjusted for the difference in size between SPXW options and SPY options (SPXW options are approximately ten times the value of SPY options).

⁴¹ The Exchange calculated the volume-weighted average daily effective spread for simple trades for each of SPXW options (with Monday, Wednesday, and Friday expirations) and SPY Weekly options (with Monday, Wednesday, and Friday expirations) as twice the amount of the absolute value of the difference between an order execution price and the midpoint of the national best bid and offer at the time of execution, adjusted for the difference in size between SPXW options and SPY options.

⁴² For purposes of comparison, the Exchange paired SPXW options and SPY options with the same moneyness and same days to expiration.

⁴³ The Exchange observed comparable market volatility levels during the pre-intervention and post-intervention time ranges.

documents/methodologies/methodology-sp-equity-indices-policies-practices.pdf.

³⁸ See DERA Staff PM Pilot Memo, at 10–12.

³⁹ MOC orders allow a market participant to trade at the closing price. Market participants generally utilize MOC orders to ensure they exit positions at the end of the trading day.

Programs, as well as the fact that when the Exchange began offering XSPPM, Weekly and EOM options, XSPPM, Weekly, and EOM options had already been trading on other exchanges for nearly a decade, the Exchange is unable to analyze whether the introduction of those options significantly impacted the market quality of corresponding A.M.-settled options. The Exchange believes analyzing whether the introduction of new SPXW P.M.-settled expirations (*i.e.*, SPXW options with Tuesday and Thursday expirations) impacted the market quality of then-existing SPXW P.M.-settled expirations (*i.e.*, SPXW options with Monday, Wednesday, and Friday expirations) provides a reasonable substitute to evaluate whether the introduction of XSPPM, Weekly and EOM options impacted the market quality of any corresponding A.M.-settled options when the pilot began.⁴⁴

As a result of this analysis, the Exchange believes the introduction of SPX options with Tuesday and Thursday options had no significant impact on the market quality of SPXW options with Monday, Wednesday, and Friday expirations. With respect to the majority of series analyzed, the Exchange observed no statistically significant difference in the bid-ask spread or the effective spread of the series in the period prior to introduction of the Tuesday and Thursday expirations and the period following the introduction of the Tuesday and Thursday expirations. While statistically insignificant, the Exchange notes that in many series, particularly as they were closer to expiration, the Exchange observed that the values of these spreads decreased during the period following the introduction of the Tuesday and Thursday expirations.⁴⁵

To further note, given the significant changes in the closing procedures of the primary markets in recent decades, including considerable advances in trading systems and technology, the Exchange believes that the risks of any potential impact of Weekly and EOM options on the underlying cash markets are also de minimis.

The Exchange proposes to make the Pilot Programs permanent as P.M.-settled index products have become a part of the Exchange's product offerings, providing investors with greater trading opportunities and flexibility. As indicated by the significant growth in

the size of the market for P.M.-settled options, such options have been, and continue to be, well-received and widely used by market participants. Therefore, the Exchange wishes to be able to have the authority to continue to provide investors with the ability to trade XSPPM, Weekly, and EOM options on a permanent basis. The Exchange believes that the permanent continuation of the Pilot Programs will serve to maintain the status quo by continuing to offer a product to which investors have become accustomed and have incorporated into their business models and day-to-day trading methodologies for nearly 14 years (and for nearly 5 years on the Exchange). As such, the Exchange also believes that ceasing to have the authority to offer XSPPM, Weekly, and EOM options may result in market disruption and investor confusion. The Exchange has not identified any significant impact on market quality nor any unique or prohibitive regulatory concerns as a result of the Pilot Programs, and, as such, the Exchange believes that the continuation of the Pilot Programs as a pilot, including the use of time and resources to compile and analyze interim and annual pilot reports and pilot data, is no longer necessary and that making the Pilot Programs permanent will allow the Exchange to otherwise allocate time and resources to other industry initiatives.

2. Statutory Basis

The Exchange believes the proposed rule change is consistent with the Act and the rules and regulations thereunder applicable to the Exchange and, in particular, the requirements of Section 6(b) of the Act.⁴⁶ Specifically, the Exchange believes the proposed rule change is consistent with the Section 6(b)(5)⁴⁷ requirements that the rules of an exchange be designed to prevent fraudulent and manipulative acts and practices, to promote just and equitable principles of trade, to foster cooperation and coordination with persons engaged in regulating, clearing, settling, processing information with respect to, and facilitating transactions in securities, to remove impediments to and perfect the mechanism of a free and open market and a national market system, and, in general, to protect investors and the public interest.

In particular, the Exchange believes that the making the Pilot Programs permanent will allow the Exchange to be able to have the authority to continue to offer XSPPM, Weekly, and EOM options—products that have become a part of the Exchange's offerings—on a continuous and permanent basis. Since their reintroduction beginning in 2006,⁴⁸ P.M.-settled options have been, and continue to be, well-received and widely used by market participants, providing investors with greater trading opportunities and flexibility. The Exchange believes that the permanent continuation of the Pilot Programs will remove impediments to and perfect the mechanism of a free and open market and a national market system, and, in general, protect investors and the public interest by continuing to offer a product to which investors have become accustomed and have incorporated into their business models and day-to-day trading strategies for nearly 14 years (including nearly 5 years on the Exchange). As indicated by the significant growth in the size of the market for P.M.-settled options, such options have been, and continue to be, well-received and widely used by market participants. Conversely, the Exchange believes ceasing to offer the Pilot Programs may result in market disruption and investor confusion, as P.M.-settled index products have become a part of the Exchange's product offerings, providing investors with greater trading opportunities and flexibility.

The Exchange further believes that making the Pilot Programs permanent will remove impediments to and perfect the mechanism of a free and open market and a national market system and protect investors, while maintaining a fair and orderly market, as the Exchange believes that previous concerns (arising in the 1980s) regarding options expirations potentially contributing to excess volatility and reversals around the close have been adequately diminished. As described in detail above, the Exchange has observed no significant adverse market impact or identified any meaningful regulatory concerns during the approximately 5-year operation of the Pilot Programs as pilots nor during the nearly years since P.M.-settled SPX options were reintroduced to the marketplace.⁴⁹ Notably, the Exchange did not identify any significant economic impact (including on pricing or volatility or in

⁴⁴ The full analysis is included in Exhibit 3 of this rule filing.

⁴⁵ In any series in which the Exchange observed an increase in the market quality indicators, the Exchange notes any such increase was also statistically insignificant.

⁴⁶ 15 U.S.C. 78f(b).

⁴⁷ 15 U.S.C. 78f(b)(5).

⁴⁸ See *supra* notes 24–44. As described above, the Exchange's conclusion is consistent with the analysis in the DERA Staff PM Pilot Memo.

⁴⁹ See *supra* notes 24–44.

connection with reversals) on related futures, the underlying indexes, or the underlying component securities of the underlying indexes surrounding the close as a result of the quantity of XSPPM, Weekly, and EOM options that settle at the close or the amount of expiring open interest in XSPPM, Weekly, and EOM options, nor any demonstrated capacity for options hedging activity to impact volatility in the underlying markets. While the DERA staff study and corresponding Exchange study described above specifically evaluated SPX options, because XSPPM, Weekly, and EOM options may only overly broad-based index options, the Exchange believes it is appropriate to extrapolate the data to apply to the XSPPM, Weekly, and EOM options, as SPX options also overlay a broad-based index. Additionally, with respect to XSP options, XSP options overly the same index comprised of the same securities (just one tenth the size). This is particularly true given that the reports submitted by the Exchange during the pilot period have similarly demonstrated no significant economic impact on the respective underlying indexes or other products.

The Exchange also believes the introduction of XSPPM, Weekly, and EOM options had no significant impact on the market quality of corresponding A.M.-settled options (which the Exchange does not list) or other options. The Exchange believes this as a result of its analysis conducted after the introduction of SPXW options with Tuesday and Thursday expirations, which demonstrated no statistically significant impact on the bid-ask or effective spreads of SPXW options with Monday, Wednesday, and Friday expirations after trading in the SPXW options with Tuesday and Thursday expirations began. While SPXW options are P.M.-settled and SPX options are A.M.-settled, they are otherwise nearly identical products. As noted above, XSPPM options are nearly identical to P.M.-settled and A.M.-settled SPX options, as they are based on an index comprised of the same securities, just 1/10th the size. Additionally, Weekly, and EOM options may only overly broad-based indexes, including the Mini-SPX Index. Therefore, the Exchange believes analyzing the impact of new SPXW options on then-existing SPXW options permit the Exchange to extrapolate from this data that it is unlikely the introduction of any other XSPPM, Weekly, or EOM options significantly impacted the market quality of A.M.-settled options when the pilots began.

Additionally, the significant changes in the closing procedures of the primary

markets in recent decades, including considerable advances in trading systems and technology, has significantly minimized risks of any potential impact of XSPPM, Weekly, or EOM options on the underlying cash markets. As such, the Exchange believes that permanent Pilot Programs do not raise any unique or prohibitive regulatory concerns and that such trading has not, and will not, adversely impact fair and orderly markets on Expiration Fridays for the underlying indexes and their component securities. Further, as the Exchange has not identified any significant impact on market quality or any unique or prohibitive regulatory concerns as a result of offering XSPPM, Weekly, and EOM options, the Exchange believes that the continuation of the Pilot Programs as pilots, including the gathering, submission and review of the pilot reports and data, is no longer necessary and that making the Pilot Programs permanent will allow the Exchange to otherwise allocate time and resources to other industry initiatives.

B. Self-Regulatory Organization's Statement on Burden on Competition

The Exchange does not believe that the proposed rule change will impose any burden on competition that is not necessary or appropriate in furtherance of the purposes of the Act. The Exchange does not believe that making the Pilot Programs permanent will impose any unnecessary or inappropriate burden on intramarket competition because XSPPM, Weekly, and EOM options will continue to be available to all market participants who wish to participate in the markets for those options. The Exchange believes that the growth the market of P.M.-settled options products, including XSPPM, Weekly, and EOM options, has experienced since their reintroduction through pilot programs indicates strong, continued investor interest and demand, warranting a permanent Pilot Program. The Exchange believes that, for the period that XSPPM, Weekly, and EOM options have been in operation as pilot programs, they have provided investors with a desirable product with which to trade and wishes to permanently offer this product to investors. Furthermore, during the pilot period, the Exchange has not observed any significant adverse market effects nor identified any regulatory concerns as a result of the Pilot Programs, and, as such, the continuation of the Pilot Programs as pilots, including the gathering, submission and review of the pilot reports and data, is no longer necessary. Permanent Pilot Programs will allow the

Exchange to otherwise allocate time and resources to other industry initiatives.

The Exchange further does not believe that making the Pilot Programs permanent will impose any burden on intermarket competition that is not necessary or appropriate in furtherance of the purposes of the Act because other exchanges are free to and do offer competing products.⁵⁰ To the extent that the permanent offering and continued trading of XSPPM, Weekly, and EOM options may make the Exchange a more attractive marketplace to market participants at other exchanges, such market participants may elect to become Exchange market participants.

C. Self-Regulatory Organization's Statement on Comments on the Proposed Rule Change Received From Members, Participants, or Others

The Exchange neither solicited nor received written comments on the proposed rule change.

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 Exchange consents, the Commission will:

- A. by order approve or disapprove such 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 Act. Comments may be submitted by any of the following methods:

Electronic Comments

- Use the Commission's internet comment form (<https://www.sec.gov/rules/sro.shtml>); or
- Send an email to rule-comments@sec.gov. Please include file number SR-CboeEDGX-2023-083 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.

⁵⁰ See, e.g., Cboe Options Rule 4.13(e) and Interpretation and Policy .13.

All submissions should refer to file number SR–CboeEDGX–2023–083. 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 (<https://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 a.m. and 3 p.m. Copies of the filing also will be available for inspection and copying at the principal office of the Exchange. Do not include personal identifiable information in submissions; you should submit only information that you wish to make available publicly. We may redact in part or withhold entirely from publication submitted material that is obscene or subject to copyright protection. All submissions should refer to file number SR–CboeEDGX–2023–083 and should be submitted on or before February 6, 2024.

For the Commission, by the Division of Trading and Markets, pursuant to delegated authority.⁵¹

Sherry R. Haywood,
Assistant Secretary.

[FR Doc. 2024–00638 Filed 1–12–24; 8:45 am]

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SECURITIES AND EXCHANGE COMMISSION

[Release No. 34–99303; File No. SR–NSCC–2023–011]

Self-Regulatory Organizations; National Securities Clearing Corporation; Order Granting Approval of a Proposed Rule Change To Refine the Margin Liquidity Adjustment (“MLA”) Charge Calculation and the Description of the MLA Charge

January 9, 2024.

I. Introduction

On November 17, 2023, National Securities Clearing Corporation

(“NSCC”) filed with the Securities and Exchange Commission (“Commission”), pursuant to Section 19(b)(1) of the Securities Exchange Act of 1934 (“Act”) ¹ and Rule 19b–4 thereunder,² proposed rule change SR–NSCC–2023–011 (“Proposed Rule Change”) to modify NSCC’s Rules & Procedures (“Rules”) ³ to refine the Margin Liquidity Adjustment (“MLA”) charge calculation and the description of the MLA Charge, as described in greater detail below. The Proposed Rule Change was published for public comment in the **Federal Register** on December 1, 2023.⁴ The Commission has received no comments on the Proposed Rule Change. For the reasons discussed below, the Commission is approving the Proposed Rule Change.

II. Background

A. Overview of NSCC’s Margin Methodology

NSCC provides central counterparty (“CCP”) services, including clearing, settlement, risk management, and a guarantee of completion for virtually all broker-to-broker trades involving equity securities, corporate and municipal debt securities, and certain other securities. As a CCP, NSCC interposes itself as the buyer to every seller and seller to every buyer for the financial transactions it clears. As such, NSCC is exposed to the risk that one or more of its members may fail to make a payment or to deliver securities.

A key tool that NSCC uses to manage its credit exposure to its members is determining and collecting an appropriate Required Fund Deposit (*i.e.*, margin) for each member.⁵ The objective of a Member’s margin is to mitigate potential losses to NSCC associated with liquidating a Member’s portfolio in the event NSCC ceases to act for that Member (hereinafter referred to as a “default”).⁶ The aggregated amount of all members’ margin constitutes the NSCC Clearing Fund. NSCC would

access its Clearing Fund should a defaulting Member’s own margin be insufficient to satisfy losses to NSCC caused by the liquidation of that Member’s portfolio.⁷ Each member’s margin consists of several components, each of which is designed to address specific risks faced by NSCC arising out of its members’ trading activity.

B. NSCC’s MLA Charge

The MLA Charge ⁸ is a margin component designed to address the market impact costs of liquidating a defaulted Member’s portfolio that may increase when that portfolio includes large Net Unsettled Positions in a particular group of securities with a similar risk profile or in a particular asset type (referred to as “asset groups”), thereby causing those costs to be higher than the amount collected for the Member’s volatility charge.⁹ A portfolio with large Net Unsettled Positions in a particular group of securities with a similar risk profile or in a particular asset type may be more difficult to liquidate in the market in the event the Member defaults because a concentration in that group of securities or in an asset type could reduce the marketability of those large positions. Therefore, such portfolios create a risk that NSCC may face increased market impact cost to liquidate that portfolio in the assumed margin period of risk of three business days at market prices.

The MLA Charge is calculated to address this increased market impact cost by determining an amount of margin to mitigate this risk. The MLA Charge is calculated for different asset groups. Essentially, the calculation is designed to compare the total market value of a Net Unsettled Position in a particular asset group, which NSCC would be required to liquidate in the event of a Member default, to the available trading volume of that asset group or equities subgroup in the market.¹⁰

Specifically, when calculating the MLA Charge, NSCC currently categorizes securities into separate asset groups that have similar risk profiles—(1) equities ¹¹ (excluding equities

¹ 15 U.S.C. 78s(b)(1).

² 17 CFR 240.19b–4.

³ Terms not defined herein are defined in the NSCC Rules, as applicable, available at http://dtcc.com/~media/Files/Downloads/legal/rules/nscc_rules.pdf.

⁴ See Securities Exchange Act Release No. 99022 (Nov. 27, 2023), 88 FR 83993 (Dec. 1, 2023) (File No. SR–NSCC–2023–011) (“Notice of Filing”).

⁵ See Rule 4 (Clearing Fund) and Procedure XV (Clearing Fund Formula and Other Matters) of the Rules, *supra* note 3.

⁶ The Rules identify when NSCC may cease to act for a Member and the types of actions NSCC may take. For example, NSCC may suspend a firm’s membership with NSCC or prohibit or limit a Member’s access to NSCC’s services in the event that Member defaults on a financial or other obligation to NSCC. See Rule 46 (Restrictions on Access to Services) of the Rules, *supra* note 3.

⁷ See Rule 4 (Clearing Fund), *supra* note 3.

⁸ See Securities Exchange Act Release Nos. 90181 (Oct. 14, 2020), 85 FR 66646 (Oct. 20, 2020) (File No. SR–NSCC–2020–016) and 90034 (Sep. 28, 2020), 85 FR 62342 (Oct. 2, 2020) (File No. SR–NSCC–2020–804) (introduced the MLA Charge).

⁹ The volatility charge is designed to capture the market price risk associated with liquidating each Member’s portfolio at a 99th percentile level of confidence. See Notice of Filing, *supra* note 4, at 83994.

¹⁰ See *id.*

¹¹ NSCC excludes long positions in Family-Issued Securities, as defined in Rule 1 (Definitions) of the

⁵¹ 17 CFR 200.30–3(a)(12).