

Exhibit A

Proposed new language is double-underlined; proposed deletions are in ~~[brackets and strikethrough]~~

PLAN TO ADDRESS EXTRAORDINARY MARKET VOLATILITY

SUBMITTED TO

THE SECURITIES AND EXCHANGE COMMISSION

PURSUANT TO RULE 608 OF REGULATION NMS

UNDER THE

SECURITIES EXCHANGE ACT OF 1934

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Preamble

The Participants submit to the SEC this Plan establishing procedures to address extraordinary volatility in NMS Stocks. The procedures provide for market-wide limit up-limit down requirements that prevent trades in individual NMS Stocks from occurring outside of the specified Price Bands. These limit up-limit down requirements are coupled with Trading Pauses to accommodate more fundamental price moves. The Plan procedures are designed, among other things, to protect investors and promote fair and orderly markets. The Participants developed this Plan pursuant to Rule 608(a)(3) of Regulation NMS under the Exchange Act, which authorizes the Participants to act jointly in preparing, filing, and implementing national market system plans.

I. Definitions

(A) "Eligible Reported Transactions" shall have the meaning prescribed by the Operating Committee and shall generally mean transactions that are eligible to update the last sale price of an NMS Stock.

(B) "Exchange Act" means the Securities Exchange Act of 1934, as amended.

(C) "Limit State" shall have the meaning provided in Section VI of the Plan.

(D) "Limit State Quotation" shall have the meaning provided in Section VI of the Plan.

(E) "Lower Price Band" shall have the meaning provided in Section V of the Plan.

(F) "Market Data Plans" shall mean the effective national market system plans through which the Participants act jointly to disseminate consolidated information in compliance with Rule 603(b) of Regulation NMS under the Exchange Act.

(G) "National Best Bid" and "National Best Offer" shall have the meaning provided in Rule 600(b)(42) of Regulation NMS under the Exchange Act.

(H) "NMS Stock" shall have the meaning provided in Rule 600(b)(47) of Regulation NMS under the Exchange Act.

(I) "Opening Price" shall mean the price of a transaction that opens trading on the Primary Listing Exchange. If the Primary Listing Exchange opens with quotations, the "Opening Price" shall mean the closing price of the NMS Stock on the Primary Listing Exchange on the previous trading day, or if no such closing price exists, the last sale on the Primary Listing Exchange.

(J) "Operating Committee" shall have the meaning provided in Section III(C) of the Plan.

(K) "Participant" means a party to the Plan.

(L) "Plan" means the plan set forth in this instrument, as amended from time to time in accordance with its provisions.

(M) "Percentage Parameter" shall mean the percentages for each tier of NMS Stocks set forth in Appendix A of the Plan.

(N) "Price Bands" shall have the meaning provided in Section V of the Plan.

(O) "Primary Listing Exchange" shall mean the Participant on which an NMS Stock is listed. If an NMS Stock is listed on more than one Participant, the Participant on which the NMS Stock has been listed the longest shall be the Primary Listing Exchange.

(P) "Processor" shall mean the single plan processor responsible for the consolidation of information for an NMS Stock pursuant to Rule 603(b) of Regulation NMS under the Exchange Act.

(Q) "Pro-Forma Reference Price" shall have the meaning provided in Section V(A)(2) of the Plan.

(R) "Reference Price" shall have the meaning provided in Section V of the Plan.

(S) "Regular Trading Hours" shall have the meaning provided in Rule 600(b)(~~64~~88) of Regulation NMS under the Exchange Act. For purposes of the Plan, Regular Trading Hours can end earlier than 4:00 p.m. ET in the case of an early scheduled close.

(T) "Regulatory Halt" shall have the meaning specified in the Market Data Plans.

(U) "Reopening Price" shall mean the price of a transaction that reopens trading on the Primary Listing Exchange following a Trading Pause or a Regulatory Halt, or, if the Primary Listing Exchange reopens with quotations, the midpoint of those quotations.

(V) "SEC" shall mean the United States Securities and Exchange Commission.

(W) "Straddle State" shall have the meaning provided in Section VII(A)(2) of the Plan.

(X) "Trading center" shall have the meaning provided in Rule 600(b)(78) of Regulation NMS under the Exchange Act.

(Y) "Trading Pause" shall have the meaning provided in Section VII of the Plan.

(Z) "Upper Price Band" shall have the meaning provided in Section V of the Plan.

II. Parties

(A) List of Parties

The parties to the Plan are as follows:

- (1) 24X National Exchange LLC
One Landmark Square, 18th Floor
Stamford, Connecticut 06901
- (2) Cboe BZX Exchange, Inc.
400 South LaSalle Street
Chicago, Illinois 60605
- (3) Cboe BYX Exchange, Inc.
400 South LaSalle Street
Chicago, Illinois 60605
- (4) Cboe EDGA Exchange, Inc.
400 South LaSalle Street
Chicago, Illinois 60605
- (5) Cboe EDGX Exchange, Inc.
400 South LaSalle Street
Chicago, Illinois 60605
- (6) Financial Industry Regulatory Authority, Inc.
1735 K Street, NW
Washington, DC 20006
- (7) Investors Exchange LLC
~~[4] 3~~ World Trade Center, ~~[44th]~~ 58th
Floor
New York, New York 10007
- (8) Long Term Stock Exchange
101 Greenwich St., Suite 11A
New York, NY 10006
- (9) MEMX LLC
~~[1111 Town Square Place, Suite 520]~~
525 Washington Blvd, Suite 300
Jersey City, NJ 07310
- (10) MIAX Pearl, LLC
7 Roszel Road, Suite 1A

Princeton, NJ 08540

- (11) NASDAQ Texas, LLC
One Liberty Plaza
New York, New York 10006
- (12) NASDAQ PHLX LLC
1900 Market Street
Philadelphia, Pennsylvania 19103
- (13) The Nasdaq Stock Market LLC
1 Liberty Plaza
165 Broadway
New York, NY 10006
- (14) NYSE National, Inc.
11 Wall Street
New York, NY 10005
- (15) New York Stock Exchange LLC
11 Wall Street
New York, New York 10005
- (16) NYSE American LLC
11 Wall Street
New York, New York 10005
- (17) NYSE Arca, Inc.
11 Wall Street
New York, New York 10005
- (18) NYSE Texas, Inc.
11 Wall Street
New York, New York 10005
- (B) Compliance Undertaking

By subscribing to and submitting the Plan for approval by the SEC, each Participant agrees to comply with and to enforce compliance, as required by Rule 608(c) of Regulation NMS under the Exchange Act, by its members with the provisions of the Plan. To this end, each Participant shall adopt a rule requiring compliance by its members with the provisions of the Plan, and each Participant shall take such actions as are necessary and appropriate as a participant of the Market Data Plans to cause and enable the Processor for each NMS Stock to fulfill the functions set forth in this Plan.

(C) New Participants

The Participants agree that any entity registered as a national securities exchange or national securities association under the Exchange Act may become a Participant by: (1) becoming a participant in the applicable Market Data Plans; (2) executing a copy of the Plan, as then in effect; (3) providing each then-current Participant with a copy of such executed Plan; and (4) effecting an amendment to the Plan as specified in Section III (B) of the Plan.

(D) Advisory Committee

(1) Formation. Notwithstanding other provisions of this Plan, an Advisory Committee to the Plan shall be formed and shall function in accordance with the provisions set forth in this section.

(2) Composition. Members of the Advisory Committee shall be selected for two-year terms as follows:

(A) Advisory Committee Selections. By affirmative vote of a majority of the Participants, the Participants shall select at least one representatives from each of the following categories to be members of the Advisory Committee: (1) a broker-dealer with a substantial retail investor customer base; (2) a broker-dealer with a substantial institutional investor customer base; (3) an alternative trading system; (4) a broker-dealer that primarily engages in trading for its own account; and (5) an investor.

(3) Function. Members of the Advisory Committee shall have the right to submit their views to the Operating Committee on Plan matters, prior to a decision by the Operating Committee on such matters. Such matters shall include, but not be limited to, proposed material amendments to the Plan.

(4) Meetings and Information. Members of the Advisory Committee shall have the right to attend meetings of the Operating Committee and to receive any information concerning Plan matters; provided, however, that the Operating Committee may meet in executive session if, by affirmative vote

of a majority of the Participants, the Operating Committee determines that an item of Plan business requires confidential treatment.

III. Amendments to Plan

(A) General Amendments

Except with respect to the addition of new Participants to the Plan, any proposed change in, addition to, or deletion from the Plan shall be effected by means of a written amendment to the Plan that: (1) sets forth the change, addition, or deletion; (2) is executed on behalf of each Participant; and, (3) is approved by the SEC pursuant to Rule 608 of Regulation NMS under the Exchange Act, or otherwise becomes effective under Rule 608 of Regulation NMS under the Exchange Act.

(B) New Participants

With respect to new Participants, an amendment to the Plan may be effected by the new national securities exchange or national securities association executing a copy of the Plan, as then in effect (with the only changes being the addition of the new Participant's name in Section II(A) of the Plan) and submitting such executed Plan to the SEC for approval. The amendment shall be effective when it is approved by the SEC in accordance with Rule 608 of Regulation NMS under the Exchange Act or otherwise becomes effective pursuant to Rule 608 of Regulation NMS under the Exchange Act.

(C) Operating Committee

(1) Each Participant shall select from its staff one individual to represent the Participant as a member of an Operating Committee, together with a substitute for such individual. The substitute may participate in deliberations of the Operating Committee and shall be considered a voting member thereof only in the absence of the primary representative. Each Participant shall have one vote on all matters considered by the Operating Committee. No later than the initial date of Plan operations, the Operating Committee shall designate one member of the Operating Committee to act as the Chair of the Operating Committee.

The Operating Committee shall monitor the procedures established pursuant to this Plan and advise the Participants with respect to any deficiencies, problems, or recommendations as the Operating Committee may deem appropriate. The Operating Committee shall establish specifications and procedures for the implementation and operation of the Plan that are consistent with the provisions of this Plan and the Appendixes thereto. With respect to matters in this paragraph, Operating Committee decisions shall be approved by a simple majority vote.

(2) Any recommendation for an amendment to the Plan from the Operating Committee that receives an affirmative vote of at least two-thirds of the Participants, but is less than unanimous, shall be submitted to the SEC as a request for an amendment to the Plan initiated by the Commission under Rule 608 of Regulation NMS.

IV. Trading Center Policies and Procedures

All trading centers in NMS Stocks, including both those operated by Participants and those operated by members of Participants, shall establish, maintain, and enforce written policies and procedures that are reasonably designed to comply with the limit up - limit down requirements specified in Sections VI and VIII of the Plan, and to comply with the Trading Pauses specified in Section VII of the Plan.

V. Price Bands

(A) Calculation and Dissemination of Price Bands

(1) The Processor for each NMS stock shall calculate and disseminate to the public a Lower Price Band and an Upper Price Band during Regular Trading Hours for such NMS Stock. The Price Bands shall be based on a Reference Price for each NMS Stock that equals the arithmetic mean price of Eligible Reported Transactions for the NMS stock over the immediately preceding five-minute period (except for periods following openings and reopenings, which are addressed below). If no Eligible Reported Transactions for the NMS Stock have occurred over the immediately preceding five-minute

period, the previous Reference Price shall remain in effect. The Price Bands for an NMS Stock shall be calculated by applying the Percentage Parameter for such NMS Stock to the Reference Price, with the Lower Price Band being a Percentage Parameter below the Reference Price, and the Upper Price Band being a Percentage Parameter above the Reference Price. The Price Bands shall be calculated during Regular Trading Hours. Between 3:35 p.m. and 4:00 p.m. ET, or in the case of an early scheduled close, during the last 25 minutes of trading before the early scheduled close, the Price Bands shall be calculated by applying double the Percentage Parameters set forth in Appendix A for (i) all Tier 1 NMS Stocks and (ii) Tier 2 NMS Stocks priced equal to or below \$3.00. If the Processor has not yet disseminated Price Bands, but a Reference Price is available, a trading center may calculate and apply Price Bands based on the same Reference Price that the Processor would use for calculating such Price Bands until such trading center receives Price Bands from the Processor. If, under Section VII(B)(2), the Primary Listing Exchange notifies the Processor that it is unable to reopen an NMS Stock due to a systems or technology issue and it has not declared a Regulatory Halt, the Processor will calculate and disseminate Price Bands by applying triple the Percentage Parameters set forth in Appendix A for the first 30 seconds such Price Bands are disseminated.

(2) The Processor shall calculate a Pro-forma Reference Price on a continuous basis during Regular Trading Hours, as specified in Section V(A)(1) of the Plan. If a Pro-forma Reference Price has not moved by 1% or more from the Reference Price currently in effect, no new Price Bands shall be disseminated, and the current Reference Price shall remain the effective Reference Price. When the Pro-forma Reference Price has moved by 1% or more from the Reference Price currently in effect, the Pro-forma Reference Price shall become the Reference Price, and the Processor shall disseminate new Price Bands based on the new Reference Price; provided, however, that each new Reference Price shall remain in effect for at least 30 seconds.

(B) Openings

(1) Except when a Regulatory Halt is in effect at the start of Regular Trading Hours, the first

Reference Price for a trading day shall be the Opening Price on the Primary Listing Exchange in an NMS Stock if such Opening Price occurs less than five minutes after the start of Regular Trading Hours.

During the period less than five minutes after the Opening Price, a Pro-Forma Reference Price shall be updated on a continuous basis to be the arithmetic mean price of Eligible Reported Transactions for the NMS Stock during the period following the Opening Price (including the Opening Price), and if it differs from the current Reference Price by 1% or more shall become the new Reference Price, except that a new Reference Price shall remain in effect for at least 30 seconds. Subsequent Reference Prices shall be calculated as specified in Section V(A) of the Plan.

(2) If the Opening Price on the Primary Listing Exchange in an NMS Stock does not occur within five minutes after the start of Regular Trading Hours, the first Reference Price for a trading day shall be the arithmetic mean price of Eligible Reported Transactions for the NMS Stock over the preceding five minute time period, and subsequent Reference Prices shall be calculated as specified in Section V(A) of the Plan.

(C) Reopenings

(1) Following a Trading Pause in an NMS Stock, and if the Primary Listing Exchange has not declared a Regulatory Halt, if the Primary Listing Exchange reopens trading with a transaction or quotation that does not include a zero bid or zero offer, the next Reference Price shall be the Reopening Price on the Primary Listing Exchange. Subsequent Reference Prices shall be determined in the manner prescribed for normal openings, as specified in Section V(B)(1) of the Plan. If the Primary Listing Exchange notifies the Processor that it is unable to reopen an NMS Stock due to a systems or technology issue, or if the Primary Listing Exchange reopens trading with a quotation that has a zero bid or zero offer, or both, the next Reference Price shall be the last effective Price Band that was in a Limit State before the Trading Pause. Subsequent Reference Prices shall be calculated as specified in Section V(A) of the Plan.

(2) Following a Regulatory Halt, the next Reference Price shall be the Opening or Reopening

Price on the Primary Listing Exchange if such Opening or Reopening Price occurs within five minutes after the end of the Regulatory Halt, and subsequent Reference Prices shall be determined in the manner prescribed for normal openings, as specified in Section V(B)(l) of the Plan. If such Opening or Reopening Price has not occurred within five minutes after the end of the Regulatory Halt, the Reference Price shall be equal to the arithmetic mean price of Eligible Reported Transactions for the NMS Stock over the preceding five minute time period, and subsequent Reference Prices shall be calculated as specified in Section V(A) of the Plan.

VI. Limit Up-Limit Down Requirements

(A) Limitations on Trades and Quotations Outside of Price Bands

(1) All trading centers in NMS Stocks, including both those operated by Participants and those operated by members of Participants, shall establish, maintain, and enforce written policies and procedures that are reasonably designed to prevent trades at prices that are below the Lower Price Band or above the Upper Price Band for an NMS Stock. Single-priced opening, reopening, and closing transactions on the Primary Listing Exchange, however, shall be excluded from this limitation. In addition, any transaction that both (i) does not update the last sale price (except if solely because the transaction was reported late or because the transaction was an odd-lot sized transaction), and (ii) is excepted or exempt from Rule 611 under Regulation NMS shall be excluded from this limitation.

(2) When a National Best Bid is below the Lower Price Band or a National Best Offer is above the Upper Price Band for an NMS Stock, the Processor shall disseminate such National Best Bid or National Best Offer with an appropriate flag identifying it as non-executable. When a National Best Offer is equal to the Lower Price Band or a National Best Bid is equal to the Upper Price Band for an NMS Stock, the Processor shall distribute such National Best Bid or National Best Offer with an appropriate flag identifying it as a "Limit State Quotation".

(3) All trading centers in NMS Stocks, including both those operated by Participants and those operated by members of Participants, shall establish, maintain, and enforce written policies and procedures that are reasonably designed to prevent the display of offers below the Lower Price Band and bids above the Upper Price Band for an NMS Stock. The Processor shall disseminate an offer below the Lower Price Band or bid above the Upper Price Band that may be submitted despite such reasonable policies and procedures, but with an appropriate flag identifying it as non-executable; provided, however, that any such bid or offer shall not be included in National Best Bid or National Best Offer calculations.

(B) Entering and Exiting a Limit State

(1) All trading for an NMS Stock shall immediately enter a Limit State if the National Best Offer equals the Lower Price Band and does not cross the National Best Bid, or the National Best Bid equals the Upper Price Band and does not cross the National Best Offer.

(2) When trading for an NMS Stock enters a Limit State, the Processor shall disseminate this information by identifying the relevant quotation (i.e., a National Best Offer that equals the Lower Price Band or a National Best Bid that equals the Upper Price Band) as a Limit State Quotation. At this point, the Processor shall cease calculating and disseminating updated Reference Prices and Price Bands for the NMS Stock until either trading exits the Limit State or trading resumes with an opening or re-opening as provided in Section V.

(3) Trading for an NMS Stock shall exit a Limit State if, within 15 seconds of entering the Limit State, the entire size of all Limit State Quotations are executed or cancelled.

(4) If trading for an NMS Stock exits a Limit State within 15 seconds of entry, the Processor shall immediately calculate and disseminate updated Price Bands based on a Reference Price that equals the arithmetic mean price of Eligible Reported Transactions for the NMS Stock over the immediately

preceding five-minute period (including the period of the Limit State).

(5) If trading for an NMS Stock does not exit a Limit State within 15 seconds of entry, the Limit State will terminate when the Primary Listing Exchange declares a Trading Pause pursuant to Section VII of the Plan or at the end of Regular Trading Hours.

VII. Trading Pauses

(A) Declaration of Trading Pauses

(1) If trading for an NMS Stock does not exit a Limit State within 15 seconds of entry during Regular Trading Hours, then the Primary Listing Exchange shall declare a Trading Pause for such NMS Stock and shall notify the Processor.

(2) The Primary Listing Exchange may also declare a Trading Pause for an NMS Stock when an NMS Stock is in a Straddle State, which is when National Best Bid (Offer) is below (above) the Lower (Upper) Price Band and the NMS Stock is not in a Limit State, and trading in that NMS Stock deviates from normal trading characteristics such that declaring a Trading Pause would support the Plan's goal to address extraordinary market volatility. The Primary Listing Exchange shall develop policies and procedures for determining when it would declare a Trading Pause in such circumstances. If a Trading Pause is declared for an NMS Stock under this provision, the Primary Listing Exchange shall notify the Processor.

(3) The Processor shall disseminate Trading Pause information to the public. No trades in an NMS Stock shall occur during a Trading Pause, but all bids and offers may be displayed.

(B) Reopening of Trading During Regular Trading Hours

(1) Five minutes after declaring a Trading Pause for an NMS Stock, and if the Primary Listing Exchange has not declared a Regulatory Halt, the Primary Listing Exchange shall attempt to reopen trading using its established reopening procedures. The Processor will publish the following information that the Primary Listing Exchange provides to the Processor in connection with such reopening: auction

reference price; auction collars; and number of extensions to the reopening auction. The Trading Pause shall end when the Primary Listing Exchange reports a Reopening Price.

(2) The Primary Listing Exchange shall notify the Processor if it is unable to reopen trading in an NMS Stock due to a systems or technology issue and if it has not declared a Regulatory Halt. The Processor shall disseminate this information to the public.

(3) Trading centers may not resume trading in an NMS Stock following a Trading Pause without Price Bands in such NMS Stock.

(4) The Processor shall update the Price Bands as set forth in Section V(C)(1) - (2) of the Plan after receiving notification from the Primary Listing Exchange of a Reopening Price following a Trading Pause (or a resume message in the case of a reopening quote that has a zero bid or zero offer, or both) or that it is unable to reopen trading following a Trading Pause due to a systems or technology issue, provided that if the Primary Listing Exchange is unable to reopen due to a systems or technology issue, the update to the Price Bands will be no earlier than ten minutes after the beginning of the Trading Pause.

(C) Trading Pauses Within Ten Minutes of the End of Regular Trading Hours

(1) If an NMS Stock is in a Trading Pause during the last ten minutes of trading before the end of Regular Trading Hours, the Primary Listing Exchange shall not reopen trading and shall attempt to execute a closing transaction using its established closing procedures. All trading centers may begin trading the NMS Stock when the Primary Listing Exchange executes a closing transaction.

(2) If the Primary Listing Exchange does not execute a closing transaction within five minutes after the end of Regular Trading Hours, all trading centers may begin trading the NMS Stock.

VIII. Overnight Protections

(A) For the purposes of this section VIII, the following definitions shall apply:

(1) “Closing Price” of an NMS Stock shall mean the Listing Market Official Closing Price of an NMS Stock, adjusted for relevant corporate actions.

(2) “Consolidated Price” shall mean the consolidated last round lot sale price of an NMS Stock as of 7:45 p.m., Eastern Time, adjusted for relevant corporate actions.

(3) “Overnight Percentage Parameter” shall mean 20% for both Tier 1 and Tier 2 NMS Stocks and non-leveraged ETPs; the Overnight Percentage Parameters for a leveraged ETP shall be 20%, multiplied by the leverage ratio of such product.

(4) “Overnight Price Bands” shall have the meaning provided in Section VIII(B)(1) of the Plan.

(5) “Overnight Protected Hours” will begin at 9:00 p.m. Eastern Time on Sunday through Thursday and conclude at 4:00 a.m. Eastern Time on the next calendar day.

(6) “Overnight Reference Prices” shall mean the two reference prices used for calculating Overnight Price Bands: (i) the Closing Price; and (ii) the Consolidated Price.

Any term not defined in this Section VIII(A) shall have the meaning assigned to it in Section I.

(B) Overnight Price Bands

(1) The Primary Listing Exchange for each NMS Stock shall calculate and disseminate to the Processors an Overnight Lower Price Band and an Overnight Upper Price Band (each as defined below) to be disseminated by the Processors and applied during Overnight Protected Hours for such NMS Stock. The Overnight Price Bands for an NMS Stock shall be calculated by applying the Overnight Percentage Parameter for such NMS Stock to the Overnight Reference Prices. The Overnight Lower Price Band shall be an Overnight Percentage Parameter below the lower of the two Overnight Reference Prices, and the Overnight Upper Price Band shall be an Overnight Percentage Parameter above the higher of the two Overnight Reference Prices.

(2) Minimum Price Bands. For any NMS Stock with a Closing Price of less than \$1.00, the minimum Overnight Upper Price Band and the minimum Overnight Lower Price Band shall each be \$1.00 from the applicable Overnight Reference Price. For any NMS Stock with a Closing Price of \$1.00 or more, the minimum Overnight Upper Price Band and the minimum Overnight Lower Price Band shall each be \$3.00 from the applicable Overnight Reference Price. The Minimum Price Band for a leveraged ETP shall be multiplied by the leverage ratio of such product.

(3) The Primary Listing Exchange for each NMS Stock shall be responsible for determining the Overnight Reference Prices and calculating the Overnight Price Bands. Each Primary Listing Exchange shall transmit the calculated Overnight Price Bands to the Processors no later than 8:55 p.m. Eastern Time.

(4) The Processors shall disseminate to the public the Overnight Price Bands provided by the Primary Listing Exchange prior to 9:00 p.m. Eastern Time.

(C) All trading centers in NMS Stocks that are operative during Overnight Protected Hours, including both those operated by Participants and those operated by members of Participants, shall establish, maintain, and enforce written policies and procedures that are reasonably designed to prevent trades at prices that are below the Overnight Lower Price Band or above the Overnight Upper Price Band for an NMS Stock during Overnight Protected Hours.

(D) During the Overnight Protected Hours, the Primary Listing Exchange for an NMS Stock may declare a Regulatory Halt, in accordance with Primary Listing Exchange rules. In the event the Primary Listing Exchange declares a Regulatory Halt it shall notify the Processor, which shall disseminate notice of the halt. Once a Regulatory Halt is declared, trading in such NMS stock will not reopen during Overnight Protected Hours.

VIIIX. Implementation

The initial date of Plan operations shall be April 8, 2013. Overnight Protections, as described in

Section VIII, are expected to commence on December 6, 2026.

IX. Withdrawal from Plan

If a Participant obtains SEC approval to withdraw from the Plan, such Participant may withdraw from the Plan at any time on not less than 30 days' prior written notice to each of the other Participants.

At such time, the withdrawing Participant shall have no further rights or obligations under the Plan.

XI. Counterparts and Signatures

The Plan may be executed in any number of counterparts, no one of which need contain all signatures of all Participants, and as many of such counterparts as shall together contain all such signatures shall constitute one and the same instrument.

IN WITNESS THEREOF, this Plan has been executed as of the ___ day of _____ 2026 by each of the parties hereto.

24X NATIONAL EXCHANGE LLC

BY:  _____

Cboe BYX EXCHANGE, INC

BY: _____

Cboe EDGX EXCHANGE, INC.

BY: _____

INVESTORS EXCHANGE LLC

BY: _____

MEMX LLC

BY: _____

NASDAQ TEXAS, LLC

BY: _____

Cboe BZX EXCHANGE, INC.

BY: _____

Cboe EDGA EXCHANGE, INC.

BY: _____

FINANCIAL INDUSTRY
REGULATORY AUTHORITY, INC.

BY: _____

LONG TERM STOCK EXCHANGE

BY: _____

MIAX PEARL, LLC

BY: _____

NASDAQ PHLX LLC

BY: _____

IN WITNESS THEREOF, this Plan has been executed as of the ___ day of _____ 2026 by each of the parties hereto.

24X NATIONAL EXCHANGE LLC

BY: _____

Cboe BYX EXCHANGE, INC

BY: Matthew Swamaye

Cboe EDGX EXCHANGE, INC.

BY: Matthew Swamaye

INVESTORS EXCHANGE LLC

BY: _____

MEMX LLC

BY: _____

NASDAQ TEXAS, LLC

BY: _____

Cboe BZX EXCHANGE, INC.

BY: Matthew Swamaye

Cboe EDGA EXCHANGE, INC.

BY: Matthew Swamaye

FINANCIAL INDUSTRY
REGULATORY AUTHORITY, INC.

BY: _____

LONG TERM STOCK EXCHANGE

BY: _____

MIAX PEARL, LLC

BY: _____

NASDAQ PHLX LLC

BY: _____

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24X NATIONAL EXCHANGE LLC

BY: _____

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INVESTORS EXCHANGE LLC

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MEMX LLC

BY: _____

NASDAQ TEXAS, LLC

BY: _____

Cboe BZX EXCHANGE, INC.

BY: _____

Cboe EDGA EXCHANGE, INC.

BY: _____

FINANCIAL INDUSTRY
REGULATORY AUTHORITY, INC.

BY:  _____

LONG TERM STOCK EXCHANGE

BY: _____

MIAX PEARL, LLC

BY: _____

NASDAQ PHLX LLC

BY: _____

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24X NATIONAL EXCHANGE LLC

BY: _____

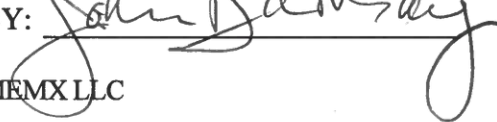
Cboe BYX EXCHANGE, INC

BY: _____

Cboe EDGX EXCHANGE, INC.

BY: _____

INVESTORS EXCHANGE LLC

BY:  _____
MEMX LLC

BY: _____

NASDAQ TEXAS, LLC

BY: _____

Cboe BZX EXCHANGE, INC.

BY: _____

Cboe EDGA EXCHANGE, INC.

BY: _____

FINANCIAL INDUSTRY
REGULATORY AUTHORITY, INC.

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LONG TERM STOCK EXCHANGE

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MIAX PEARL, LLC

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NASDAQ PHLX LLC

BY: _____

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24X NATIONAL EXCHANGE LLC

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Cboe BYX EXCHANGE, INC

BY: _____

Cboe EDGX EXCHANGE, INC.

BY: _____

INVESTORS EXCHANGE LLC

BY: _____

MEMX LLC

BY: _____

NASDAQ TEXAS, LLC

BY: _____

Cboe BZX EXCHANGE, INC.

BY: _____

Cboe EDGA EXCHANGE, INC.

BY: _____

FINANCIAL INDUSTRY
REGULATORY AUTHORITY, INC.

BY: _____

LONG TERM STOCK EXCHANGE

BY: Jill Ostergaard

MIAX PEARL, LLC

BY: _____

NASDAQ PHLX LLC

BY: _____

IN WITNESS THEREOF, this Plan has been executed as of the ___ day of _____ 2026 by each of the parties hereto.

24X NATIONAL EXCHANGE LLC

BY: _____

Cboe BYX EXCHANGE, INC

BY: _____

Cboe EDGX EXCHANGE, INC.

BY: _____

INVESTORS EXCHANGE LLC

BY: _____

MEMX LLC

BY:  _____

NASDAQ TEXAS, LLC

BY: _____

Cboe BZX EXCHANGE, INC.

BY: _____

Cboe EDGA EXCHANGE, INC.

BY: _____

FINANCIAL INDUSTRY
REGULATORY AUTHORITY, INC.

BY: _____

LONG TERM STOCK EXCHANGE

BY: _____

MIAX PEARL, LLC

BY: _____

NASDAQ PHLX LLC

BY: _____

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INVESTORS EXCHANGE LLC

BY: _____

MEMX LLC

BY: _____

NASDAQ TEXAS, LLC

BY: _____

Cboe BZX EXCHANGE, INC.

BY: _____

Cboe EDGA EXCHANGE, INC.

BY: _____

FINANCIAL INDUSTRY
REGULATORY AUTHORITY, INC.

BY: _____

LONG TERM STOCK EXCHANGE

BY: _____

MIAX PEARL, LLC

BY: 

Barbara J. Comly, EVP - General Counsel
NASDAQ PHLX LLC

BY: _____

IN WITNESS THEREOF, this Plan has been executed as of the ___ day of _____ 2026 by each of the parties hereto.

24X NATIONAL EXCHANGE LLC

BY: _____

Cboe BYX EXCHANGE, INC

BY: _____

Cboe EDGX EXCHANGE, INC.

BY: _____

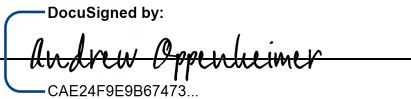
INVESTORS EXCHANGE LLC

BY: _____

MEMX LLC

BY: _____

NASDAQ TEXAS, LLC

BY:  CAE24F9E9B67473...

Cboe BZX EXCHANGE, INC.

BY: _____

Cboe EDGA EXCHANGE, INC.

BY: _____

FINANCIAL INDUSTRY
REGULATORY AUTHORITY, INC.

BY: _____

LONG TERM STOCK EXCHANGE

BY: _____

MIAX PEARL, LLC

BY: _____

NASDAQ PHLX LLC

BY:  CAE24F9E9B67473...

THE NASDAQ STOCK MARKET LLC

BY:  _____
DocuSigned by:
CAE24F9E9B67473...

NEW YORK STOCK EXCHANGE
LLC

BY: _____

NYSE ARCA, INC.

BY: _____

NYSE NATIONAL, INC.

BY: _____

NYSE American LLC

BY: _____

NYSE TEXAS, INC.

BY: _____

THE NASDAQ STOCK MARKET LLC

BY: _____

NEW YORK STOCK EXCHANGE
LLC

BY: Robert Turtoro

NYSE ARCA, INC.

BY: Robert Turtoro

NYSE NATIONAL, INC.

BY: Robert Turtoro

NYSE American LLC

BY: Robert Turtoro

NYSE TEXAS, INC.

BY: Robert Turtoro

Appendix A - Percentage Parameters

I. Tier 1 NMS Stocks

(1) Tier 1 NMS Stocks shall include all NMS Stocks included in the S&P 500 Index and the Russell 1000 Index, and the exchange-traded products ("ETP") identified as Schedule 1 to this Appendix. Schedule 1 to the Appendix will be reviewed and updated semi-annually based on the fiscal year by the Primary Listing Exchange to add ETPs that meet the criteria, or delete ETPs that are no longer eligible. To determine eligibility for an ETP to be included as a Tier 1 NMS Stock, all ETPs across multiple asset classes and issuers, including domestic equity, international equity, fixed income, currency, and commodities and futures will be identified. Leveraged ETPs will be excluded and the list will be sorted by notional consolidated average daily volume ("CADY"). The period used to measure CADY will be from the first day of the previous fiscal half year up until one week before the beginning of the next fiscal half year. Daily volumes will be multiplied by closing prices and then averaged over the period. ETPs, including inverse ETPs, that trade over \$2,000,000 CADY will be eligible to be included as a Tier 1 NMS Stock. The semi-annual updates to Schedule 1 do not require an amendment to the Plan. The Primary Listing Exchanges will maintain the updated Schedule 1 on their respective websites.

(2) The Percentage Parameters for Tier 1 NMS Stocks with a Reference Price more than \$3.00 shall be 5%.

(3) The Percentage Parameters for Tier 1 NMS Stocks with a Reference Price equal to \$0.75 and up to and including \$3.00 shall be 20%.

(4) The Percentage Parameters for Tier 1 NMS Stocks with a Reference Price less than \$0.75 shall be the lesser of (a) \$0.15 or (b) 75%.

(5) The Reference Price used for determining which Percentage Parameter shall be applicable during a trading day shall be based on the closing price of the NMS Stock on the Primary

Listing Exchange on the previous trading day, or if no closing price exists, the last sale on the Primary Listing Exchange reported by the Processor.

II. Tier 2 NMS Stocks

(1) Tier 2 NMS Stocks shall include all NMS Stocks other than those in Tier 1, provided, however, that all rights and warrants are excluded from the Plan.

(2) The Percentage Parameters for Tier 2 NMS Stocks with a Reference Price more than \$3.00 shall be 10%.

(3) The Percentage Parameters for Tier 2 NMS Stocks with a Reference Price equal to \$0.75 and up to and including \$3.00 shall be 20%.

(4) The Percentage Parameters for Tier 2 NMS Stocks with a Reference Price less than \$0.75 shall be the lesser of (a) \$0.15 or (b) 75%.

(5) Notwithstanding the foregoing, the Percentage Parameters for a Tier 2 NMS Stock that is a leveraged ETP shall be the applicable Percentage Parameter set forth in clauses (2), (3), or (4) above, multiplied by the leverage ratio of such product.

(6) The Reference Price used for determining which Percentage Parameter shall be applicable during a trading day shall be based on the closing price of the NMS Stock on the Primary Listing Exchange on the previous trading day, or if no closing price exists, the last sale on the Primary Listing Exchange reported by the Processor.

**Appendix A - Schedule 1
(as of January 2, 2020)**

Ticker	ETP Name	Exchange
SPY	SPDR S&P 500 ETF Trust	NYSE Arca
QQQ	Invesco QQQ Trust	NASDAQ
IWM	iShares Russell 2000 ETF	NYSE Arca
EEM	iShares MSCI Emerging Markets ETF	NYSE Arca
GDX	VanEck Vectors Gold Miners ETF	NYSE Arca
HYG	iShares iBoxx \$ High Yield Corporate Bond ETF	NYSE Arca
EFA	iShares MSCI EAFE ETF	NYSE Arca
TLT	iShares 20+ Year Treasury Bond ETF	NASDAQ
GLD	SPDR Gold Trust	NYSE Arca
XLF	Financial Select Sector SPDR Fund	NYSE Arca
LQD	iShares iBoxx \$ Investment Grade Corporate Bond ETF	NYSE Arca
IVV	iShares Core S&P 500 ETF	NYSE Arca
XLU	Utilities Select Sector SPDR Fund	NYSE Arca
EWZ	iShares MSCI Brazil ETF	NYSE Arca
FXI	iShares China Large-Cap ETF	NYSE Arca
XLE	Energy Select Sector SPDR Fund	NYSE Arca
XLK	Technology Select Sector SPDR Fund	NYSE Arca
XLV	Health Care Select Sector SPDR Fund	NYSE Arca
VXX	iPath Series B S&P 500 VIX Short-Term Futures ETN	CboeBZX
XLI	Industrial Select Sector SPDR Fund	NYSE Arca
XLP	Consumer Staples Select Sector SPDR Fund	NYSE Arca
DIA	SPDR Dow Jones Industrial Average ETF Trust	NYSE Arca
VOO	Vanguard S&P 500 ETF	NYSE Arca
IEMG	iShares Core MSCI Emerging Markets ETF	NYSE Arca
IYR	iShares U.S. Real Estate ETF	NYSE Arca
GDXJ	VanEck Vectors Junior Gold Miners ETF	NYSE Arca
JNK	SPDR Bloomberg Barclays High Yield Bond ETF	NYSE Arca
XOP	SPDR S&P Oil & Gas Exploration & Production ETF	NYSE Arca
SMH	VanEck Vectors Semiconductor ETF	NASDAQ
IEF	iShares 7-10 Year Treasury Bond ETF	NASDAQ
VWO	Vanguard FTSE Emerging Markets ETF	NYSE Arca
IEFA	iShares Core MSCI EAFE ETF	CboeBZX
AGG	iShares Core U.S. Aggregate Bond ETF	NYSE Arca
VNQ	Vanguard Real Estate ETF	NYSE Arca
EMB	iShares JP Morgan USO Emerging Markets Bond ETF	NASDAQ
XLY	Consumer Discretionary Select Sector SPDR Fund	NYSE Arca
VTI	Vanguard Total Stock Market ETF	NYSE Arca
XBI	SPDR S&P BIOTECH ETF	NYSE Arca

Ticker	ETP Name	Exchange
EWJ	iShares MSCI Japan ETF	NYSE Arca
MDY	SPDR S&P Midcap 400 ETF Trust	NYSE Arca
VEA	Vanguard FTSE Developed Markets ETF	NYSE Arca
XLB	Materials Select Sector SPDR Fund	NYSE Arca
KRE	SPDR S&P Regional Banking ETF	NYSE Arca
SLV	iShares Silver Trust	NYSE Arca
USO	United States Oil Fund LP	NYSE Arca
IAU	iShares Gold Trust	NYSE Arca
USMV	iShares Edge MSCI Min Vol USA ETF	CboeBZX
IBB	iShares NASDAQ Biotechnology ETF	NASDAQ
BND	Vanguard Total Bond Market ETF	NASDAQ
IJR	iShares Core S&P Small Cap ETF	NYSE Arca
SHV	iShares Short Treasury Bond ETF	NASDAQ
IWD	iShares Russell 1000 Value ETF	NYSE Arca
SPLV	Invesco S&P 500 Low Volatility ETF	NYSE Arca
IWF	iShares Russell 1000 Growth ETF	NYSE Arca
XRT	SPDR S&P Retail ETF	NYSE Arca
EWY	iShares MSCI South Korea ETF	NYSE Arca
MCHI	iShares MSCI China ETF	NASDAQ
ACWI	iShares MSCI ACWI ETF	NASDAQ
VCIT	Vanguard Intermediate-Term Corporate Bond ETF	NASDAQ
AMLP	Alerian MLP ETF	NYSE Arca
SHY	iShares 1-3 Year Treasury Bond ETF	NASDAQ
VGK	Vanguard FTSE Europe ETF	NYSE Arca
BIL	SPDR Bloomberg Barclays 1-3 Month T-Bill ETF	NYSE Arca
EZU	iShares MSCI Eurozone ETF	CboeBZX
IJH	iShares Core S&P Mid-Cap ETF	NYSE Arca
XLRE	Real Estate Select Sector SPDR Fund	NYSE Arca
XLC	Communication Services Select Sector SPDR Fund	NYSE Arca
IWB	iShares Russell 1000 ETF	NYSE Arca
EWT	iShares MSCI Taiwan ETF	NYSE Arca
TIP	iShares TIPS Bond ETF	NYSE Arca
MTUM	iShares Edge MSCI USA Momentum Factor ETF	CboeBZX
RSX	VanEck Vectors Russia ETF	CboeBZX
VTV	Vanguard Value ETF	NYSE Arca
INDA	iShares MSCI India ETF	CboeBZX
PFF	iShares Preferred & Income Securities ETF	NASDAQ
EWH	iShares MSCI Hong Kong ETF	NYSE Arca
VT	Vanguard Total World Stock ETF	NYSE Arca
MBB	iShares MBS ETF	NASDAQ

Ticker	ETP Name	Exchange
IGV	iShares Expanded Tech-Software Sector ETF	CboeBZX
BSV	Vanguard Short-Term Bond ETF	NYSE Arca
SVXY	ProShares Short VIX Short-Term Futures ETF	NYSE Arca
BKLN	Invesco Senior Loan ETF	NYSE Arca
VIG	Vanguard Dividend Appreciation ETF	NYSE Arca
OIH	VanEck Vectors Oil Services ETF	NYSE Arca
EWV	iShares MSCI Mexico ETF	NYSE Arca
VEU	Vanguard FTSE All-World ex-US Index Fund	NYSE Arca
VCSH	Vanguard Short-Term Corporate Bond ETF	NASDAQ
SH	ProShares Short S&P500	NYSE Arca
IEI	iShares 3-7 Year Treasury Bond ETF	NASDAQ
GOVT	iShares U.S. Treasury Bond ETF	CboeBZX
SOXX	iShares PHLX Semiconductor ETF	NASDAQ
VGT	Vanguard Information Technology ETF	NYSE Arca
BNDX	Vanguard Total International Bond ETF	NASDAQ
ASHR	Xtrackers Harvest CST 300 China A-Shares ETF	NYSE Arca
ITOT	iShares Core S&P Total U.S. Stock Market ETF	NYSE Arca
IWO	iShares Russell 2000 Growth ETF	NYSE Arca
VUG	Vanguard Growth ETF	NYSE Arca
JPST	JPMorgan Ultra-Short Income ETF	CboeBZX
IWN	iShares Russell 2000 Value ETF	NYSE Arca
MINT	PIMCO Enhanced Short Maturity Active ETF	NYSE Arca
VYM	Vanguard High Dividend Yield Index ETF	NYSE Arca
ITB	iShares U.S. Home Construction ETF	CboeBZX
FEZ	SPDR EURO STOXX 50 ETF	NYSE Arca
QUAL	iShares Edge MSCI USA Quality Factor ETF	CboeBZX
EWG	iShares MSCI Germany ETF	NYSE Arca
MUB	iShares National Muni Bond ETF	NYSE Arca
IVE	iShares S&P 500 Value ETF	NYSE Arca
SCHF	Schwab International Equity ETF	NYSE Arca
VXUS	Vanguard Total International Stock ETF	NASDAQ
XHB	SPDR S&P Homebuilders ETF	NYSE Arca
AAXJ	iShares MSCI All Country Asia ex Japan ETF	NASDAQ
EWU	iShares MSCI United Kingdom ETF	NYSE Arca
IVW	iShares S&P 500 Growth ETF	NYSE Arca
KBE	SPDR S&P Bank ETF	NYSE Arca
VO	Vanguard Mid-Cap ETF	NYSE Arca
VB	Vanguard Small-Cap ETF	NYSE Arca
EMLC	VanEck Vectors J.P. Morgan EM Local Currency Bond ETF	NYSE Arca

Ticker	ETP Name	Exchange
SCHX	Schwab U.S. Large-Cap ETF	NYSE Arca
IGSB	iShares Short-Term Corporate Bond ETF	NASDAQ
ACWX	iShares MSCI ACWI ex U.S. ETF	NASDAQ
PSQ	ProShares Short QQQ	NYSE Arca
FLOT	iShares Floating Rate Bond ETF	CboeBZX
IGIB	iShares Intermediate-Term Corporate Bond ETF	NASDAQ
SJNK	SPDR Bloomberg Barclays Short Term High Yield Bond ETF	NYSE Arca
UNG	United States Natural Gas Fund LP	NYSE Arca
XME	SPDR S&P Metals & Mining ETF	NYSE Arca
BIV	Vanguard Intermediate-Term Bond ETF	NYSE Arca
NEAR	iShares Short Maturity Bond ETF	CboeBZX
DXJ	WisdomTree Japan Hedged Equity Fund	NYSE Arca
VIXY	ProShares VIX Short-Term Futures ETF	NYSE Arca
KWEB	KraneShares CSI China Internet ETF	NYSE Arca
IWR	iShares Russell Midcap ETF	NYSE Arca
EFAV	iShares Edge MSCI Min Vol EAFE ETF	CboeBZX
EWC	iShares MSCI Canada ETF	NYSE Arca
IXUS	iShares Core MSCI Total International Stock ETF	NASDAQ
EWA	iShares MSCI Australia ETF	NYSE Arca
RSP	Invesco S&P 500 Equal Weight ETF	NYSE Arca
DGRO	iShares Core Dividend Growth ETF	NYSE Arca
FDN	First Trust Dow Jones Internet Index Fund	NYSE Arca
SCZ	iShares MSCI EAFE Small-Cap ETF	NASDAQ
SCHB	Schwab U.S. Broad Market ETF	NYSE Arca
DVY	iShares Select Dividend ETF	NASDAQ
SDY	SPDR S&P Dividend ETF	NYSE Arca
IHI	iShares U.S. Medical Devices ETF	NYSE Arca
OEF	iShares S&P 100 ETF	NYSE Arca
SPIB	SPDR Portfolio Intermediate Term Corporate Bond ETF	NYSE Arca
IWS	iShares Russell Mid-Cap Value ETF	NYSE Arca
AMJ	J.P. Morgan Alerian MLP Index ETN	NYSE Arca
SCHO	Schwab Short-Term US Treasury ETF	NYSE Arca
FTSM	First Trust Enhanced Short Maturity ETF	NASDAQ
SPYG	SPDR Portfolio S&P 500 Growth ETF	NYSE Arca
SPAB	SPDR Portfolio Aggregate Bond ETF	NYSE Arca
VCLT	Vanguard Long-Term Corporate Bond ETF	NASDAQ
SCHD	Schwab US Dividend Equity ETF	NYSE Arca
EWL	iShares MSCI Switzerland ETF	NYSE Arca
IWV	iShares Russell 3000 ETF	NYSE Arca

Ticker	ETP Name	Exchange
VXF	Vanguard Extended Market ETF	NYSE Arca
FVD	First Trust Value Line Dividend Index Fund	NYSE Arca
IYT	iShares Transportation Average ETF	CboeBZX
EWQ	iShares MSCI France ETF	NYSE Arca
VMBS	Vanguard Mortgage-Backed Securities ETF	NASDAQ
ILF	iShares Latin America 40 ETF	NYSE Arca
SPTL	SPDR Portfolio Long Term Treasury ETF	NYSE Arca
BLY	Vanguard Long-Term Bond ETF	NYSE Arca
VBR	Vanguard Small Cap Value ETF	NYSE Arca
VLUE	iShares Edge MSCI USA Value Factor ETF	CboeBZX
EPI	WisdomTree India Earnings Fund	NYSE Arca
VFH	Vanguard Financials ETF	NYSE Arca
VGSH	Vanguard Short-Term Treasury ETF	NASDAQ
SCHP	Schwab US TIPS ETF	NYSE Arca
USIG	iShares Broad USD Investment Grade Corporate Bond ETF	NASDAQ
IWP	iShares Russell Mid-Cap Growth ETF	NYSE Arca
ITA	iShares U.S. Aerospace & Defense ETF	CboeBZX
SCHG	Schwab U.S. Large-Cap Growth ETF	NYSE Arca
PCY	Invesco Emerging Markets Sovereign Debt ETF	NYSE Arca
IUSG	iShares Core S&P U.S. Growth ETF	NASDAQ
SPSB	SPDR Portfolio Short Term Corporate Bond ETF	NYSE Arca
VTEB	Vanguard Tax-Exempt Bond ETF	NYSE Arca
SPYV	SPDR Portfolio S&P 500 Value ETF	NYSE Arca
GSLC	Goldman Sachs ActiveBeta U.S. Large Cap Equity ETF	NYSE Arca
CWB	SPDR Bloomberg Barclays Convertible Securities ETF	NYSE Arca
VTIP	Vanguard Short-Term Inflation-Protected Securities ETF	NASDAQ
HYLB	Xtrackers USD High Yield Corporate Bond ETF	NYSE Arca
FLRN	SPDR Bloomberg Barclays Investment Grade Floating Rate ETF	NYSE Arca
SPEM	SPDR Portfolio Emerging Markets ETF	NYSE Arca
VHT	Vanguard Health Care ETF	NYSE Arca
PGX	Invesco Preferred ETF	NYSE Arca
EEMV	iShares Edge MSCI Min Vol Emerging Markets ETF	CboeBZX
SPDW	SPDR Portfolio Developed World ex-US ETF	NYSE Arca
NOBL	ProShares S&P 500 Dividend Aristocrats ETF	CboeBZX
HDV	iShares Core High Dividend ETF	NYSE Arca
EWP	iShares MSCI Spain ETF	NYSE Arca
SHYG	iShares 0-5 Year High Yield Corporate Bond ETF	NYSE Arca
VBK	Vanguard Small-Cap Growth ETF	NYSE Arca
IUSV	iShares Core S&P US Value ETF	NASDAQ

Ticker	ETP Name	Exchange
SCHE	Schwab Emerging Markets Equity ETF	NYSE Arca
VGLT	Vanguard Long-Term Treasury ETF	NASDAQ
SCHH	Schwab U.S. REIT ETF	NYSE Arca
SPLG	SPDR Portfolio Large Cap ETF	NYSE Arca
IEUR	iShares Core MSCI Europe ETF	NYSE Arca
VV	Vanguard Large-Cap ETF	NYSE Arca
ACWV	iShares Edge MSCI Min Vol Global ETF	CboeBZX
SCHY	Schwab U.S. Large-Cap Value ETF	NYSE Arca
EFV	iShares MSCI EAFE Value ETF	CboeBZX
VPL	Vanguard FTSE Pacific ETF	NYSE Arca
US	iShares S&P Small-Cap 600 Value ETF	NYSE Arca
VOE	Vanguard Mid-Cap Value ETF	NYSE Arca
SCHZ	Schwab US Aggregate Bond ETF	NYSE Arca
VDE	Vanguard Energy ETF	NYSE Arca
DBEF	Xtrackers MSCI EAFE Hedged Equity ETF	NYSE Arca
EWI	iShares MSCI Italy ETF	NYSE Arca
GBIL	Goldman Sachs Access Treasury 0-1 Year ETF	NYSE Arca
ICSH	iShares Ultra Short-Term Bond ETF	CboeBZX
FPE	First Trust Preferred Securities & Income ETF	NYSE Arca
SCHA	Schwab U.S. Small-Cap ETF	NYSE Arca
HYD	VanEck Vectors High-Yield Municipal Index ETF	CboeBZX
EDY	Vanguard Extended Duration Treasury ETF	NYSE Arca
HEDJ	WisdomTree Europe Hedged Equity Fund	NYSE Arca
VPU	Vanguard Utilities ETF	NYSE Arca
EZA	iShares MSCI South Africa ETF	NYSE Arca
HYS	PIMCO 0-5 Year High Yield Corporate Bond Index ETF	NYSE Arca
VGIT	Vanguard Intermediate-Term Treasury ETF	NASDAQ
LMBS	First Trust Low Duration Opportunities ETF	NASDAQ
SCHR	Schwab Intermediate-Term US Treasury ETF	NYSE Arca
GSY	Invesco Ultra Short Duration ETF	NYSE Arca
EPP	iShares MSCI Pacific ex-Japan ETF	NYSE Arca
FBT	First Trust NYSE Arca Biotechnology Index Fund	NYSE Arca
IYF	iShares U.S. Financials ETF	NYSE Arca
IYW	iShares U.S. Technology ETF	NYSE Arca
SRLN	SPDR Blackstone / GSO Senior Loan ETF	NYSE Arca
VNQI	Vanguard Global ex-U.S. Real Estate ETF	NASDAQ
USRY	iShares Broad USD High Yield Corporate Bond ETF	CboeBZX
IDV	iShares International Select Dividend ETF	CboeBZX
MGK	Vanguard Mega Cap Growth ETF	NYSE Arca

Ticker	ETP Name	Exchange
TLH	iShares 10-20 Year Treasury Bond ETF	NYSE Arca
SPHD	Invesco S&P 500 High Dividend Low Volatility ETF	NYSE Arca
VTWO	Vanguard Russell 2000 ETF	NASDAQ
USFR	WisdomTree Floating Rate Treasury Fund	NYSE Arca
VOT	Vanguard Mid-Cap Growth ETF	NYSE Arca
KSA	iShares MSCI Saudi Arabia ETF	NYSE Arca
PDBC	Invesco Optimum Yield Diversified Commodity Strategy No K-1 ETF	NASDAQ
IGLB	iShares Long-Term Corporate Bond ETF	NYSE Arca
SCHM	Schwab U.S. Mid-Cap ETF	NYSE Arca
ISTB	iShares Core 1-5 Year USD Bond ETF	NASDAQ
IJK	iShares S&P Mid-Cap 400 Growth ETF	NYSE Arca
GLDM	SPDR Gold MiniShares Trust	NYSE Arca
DOG	ProShares Short Dow30	NYSE Arca
KBWB	Invesco KBW Bank ETF	NASDAQ
EUFN	iShares MSCI Europe Financials ETF	NASDAQ
EIDO	iShares MSCI Indonesia ETF	NYSE Arca
XAR	SPDR S&P Aerospace & Defense ETF	NYSE Arca
RWM	ProShares Short Russell2000	NYSE Arca
BOND	PIMCO Active Bond ETF	NYSE Arca
VDC	Vanguard Consumer Staples ETF	NYSE Arca
UUP	Invesco DB US Dollar Index Bullish Fund	NYSE Arca
SPTI	SPDR Portfolio Intermediate Term Treasury ETF	NYSE Arca
FXE	Invesco CurrencyShares Euro Trust	NYSE Arca
VSS	Vanguard FTSE All-World ex-US Small-Cap ETF	NYSE Arca
EFG	iShares MSCI EAFE Growth ETF	CboeBZX
FXO	First Trust Financials AlphaDEX Fund	NYSE Arca
XMLV	Invesco S&P MidCap Low Volatility ETF	NYSE Arca
FTEC	Fidelity MSCI Information Technology Index ETF	NYSE Arca
SPYD	SPDR Portfolio S&P 500 High Dividend ETF	NYSE Arca
QTEC	First Trust NASDAQ-100 Technology Sector Index Fund	NASDAQ
THD	iShares MSCI Thailand ETF	NYSE Arca
MOAT	VanEck Vectors Morningstar Wide Moat ETF	CboeBZX
EWM	iShares MSCI Malaysia ETF	NYSE Arca
RWR	SPDR Dow Jones REIT ETF	NYSE Arca
BNO	United States Brent Oil Fund LP	NYSE Arca
FTCS	First Trust Capital Strength ETF	NASDAQ
DBC	Invesco DB Commodity Index Tracking Fund	NYSE Arca
TOTL	SPDR DoubleLine Total Return Tactical ETF	NYSE Arca
EWS	iShares MSCI Singapore ETF	NYSE Arca

Ticker	ETP Name	Exchange
PTLC	Pacer Trendpilot US Large Cap ETF	CboeBZX
SPTS	SPDR Portfolio Short Term Treasury ETF	NYSE Arca
GUNR	FlexShares Morningstar Global Upstream Natural Resources Index Fund	NYSE Arca
PRF	Invesco FTSE RAFI US 1000 ETF	NYSE Arca
ECH	iShares MSCI Chile ETF	CboeBZX
SPTM	SPDR Portfolio Total Stock Market ETF	NYSE Arca
MJ	ETFMG Alternative Harvest ETF	NYSE Arca
IYE	iShares U.S. Energy ETF	NYSE Arca
VOX	Vanguard Communication Services ETF	NYSE Arca
UT	iShares S&P Small-Cap 600 Growth ETF	NASDAQ
IPAY	ETFMG Prime Mobile Payments ETF	NYSE Arca
RWX	SPDR Dow Jones International Real Estate ETF	NYSE Arca
FNDX	Schwab Fundamental US Large Co. Index ETF	NYSE Arca
IAGG	iShares Core International Aggregate Bond ETF	CboeBZX
ANGL	VanEck Vectors Fallen Angel High Yield Bond ETF	NASDAQ
IEV	iShares Europe ETF	NYSE Arca
VOOG	Vanguard S&P 500 Growth ETF	NYSE Arca
FLCB	Franklin Liberty U.S. Core Bond ETF	NYSE Arca
IJJ	iShares S&P Mid-Cap 400 Value ETF	NYSE Arca
IUSB	iShares Core Total USD Bond Market ETF	NASDAQ
TBF	Proshares Short 20+ Year Treasury	NYSE Arca
BBEU	JPMorgan BetaBuilders Europe ETF	CboeBZX
SPSM	SPDR Portfolio Small Cap ETF	NYSE Arca
SIZE	iShares Edge MSCI USA Size Factor ETF	NYSE Arca
SHM	SPDR Nuveen Bloomberg Barclays Short Term Municipal Bond ETF	NYSE Arca
TUR	iShares MSCI Turkey ETF	NASDAQ
RODM	Hartford Multifactor Developed Markets (ex-US) ETF	NYSE Arca
BBJP	JPMorgan BetaBuilders Japan ETF	CboeBZX
MLPI	ETRACS Alerian MLP Infrastructure Index ETN	NYSE Arca
IXN	iShares Global Tech ETF	NYSE Arca
LGLV	SPDR SSGA US Large Cap Low Volatility Index ETF	NYSE Arca
FNDF	Schwab Fundamental International Large Co. Index ETF	NYSE Arca
SGOL	Aberdeen Standard Physical Gold Shares ETF	NYSE Arca
IGOV	iShares International Treasury Bond ETF	NASDAQ
FIXD	First Trust TCW Opportunistic Fixed Income ETF	NASDAQ
EWD	iShares MSCI Sweden ETF	NYSE Arca
ICF	iShares Cohen & Steers REIT ETF	CboeBZX
VIS	Vanguard Industrials ETF	NYSE Arca

Ticker	ETP Name	Exchange
MDYV	SPDR S&P 400 Mid Cap Value ETF	NYSE Arca
SPHQ	Invesco S&P 500 Quality ETF	NYSE Arca
SKYY	First Trust Cloud Computing ETF	NASDAQ
IGF	iShares Global Infrastructure ETF	NASDAQ
REM	iShares Mortgage Real Estate ETF	CboeBZX
BOTZ	Global X Robotics & Artificial Intelligence ETF	NASDAQ
FXL	First Trust Technology AlphaDEX Fund	NYSE Arca
EMLP	First Trust North American Energy Infrastructure Fund	NYSE Arca
SUB	iShares Short-Term National Muni Bond ETF	NYSE Arca
SPLB	SPDR Portfolio Long Term Corporate Bond ETF	NYSE Arca
HEWJ	iShares Currency Hedged MSCI Japan ETF	NYSE Arca
VONG	Vanguard Russell 1000 Growth ETF	NASDAQ
IYG	iShares US Financial Services ETF	NYSE Arca
IYZ	iShares U.S. Telecommunications ETF	CboeBZX
VCR	Vanguard Consumer Discretionary ETF	NYSE Arca
DGS	WisdomTree Emerging Markets SmallCap Dividend Fund	NYSE Arca
XES	SPDR S&P Oil & Gas Equipment & Services ETF	NYSE Arca
IHF	iShares U.S. Healthcare Providers ETF	NYSE Arca
VWOB	Vanguard Emerging Markets Government Bond ETF	NASDAQ
XSLV	Invesco S&P SmallCap Low Volatility ETF	NYSE Arca
HEZU	iShares Currency Hedged MSCI Eurozone ETF	NYSE Arca
ONEQ	Fidelity Nasdaq Composite Index Tracking Stock	NASDAQ
PULS	PGIM Ultra Short Bond ETF	NYSE Arca
ARKK	ARK Innovation ETF	NYSE Arca
SLYV	SPDR S&P 600 Small Cap Value ETF	NYSE Arca
DGRW	WisdomTree US Quality Dividend Growth Fund	NASDAQ
FNDE	Schwab Fundamental Emerging Markets Large Co. Index ETF	NYSE Arca
KIE	SPDR S&P Insurance ETF	NYSE Arca
USRT	iShares Core U.S. REIT ETF	NYSE Arca
IYH	iShares U.S. Healthcare ETF	NYSE Arca
RPV	Invesco S&P 500 Pure Value ETF	NYSE Arca
DEM	WisdomTree Emerging Markets High Dividend Fund	NYSE Arca
HEFA	iShares Currency Hedged MSCI EAFE ETF	CboeBZX
XSD	SPDR S&P Semiconductor ETF	NYSE Arca
IXC	iShares Global Energy ETF	NYSE Arca
MLPA	Global X MLP ETF	NYSE Arca
ERUS	iShares MSCI Russia ETF	NYSE Arca
SIL	Global X Silver Miners ETF	NYSE Arca
DON	WisdomTree U.S. MidCap Dividend Fund	NYSE Arca

Ticker	ETP Name	Exchange
VNLA	Janus Henderson Short Duration Income ETF	NYSE Arca
AGGY	WisdomTree Yield Enhanced U.S. Aggregate Bond Fund	NYSE Arca
SPMD	SPDR Portfolio Mid Cap ETF	NYSE Arca
RPG	Invesco S&P 500 Pure Growth ETF	NYSE Arca
BBRE	JPMorgan BetaBuilders MSCI U.S. REIT ETF	CboeBZX
STIP	iShares 0-5 Year TIPS Bond ETF	NYSE Arca
FTSL	First Trust Senior Loan Fund	NASDAQ
PHYS	Sprott Physical Gold Trust	NYSE Arca
GXC	SPDR S&P China ETF	NYSE Arca
PPLT	Aberdeen Standard Physical Platinum Shares ETF	NYSE Arca
FXB	Invesco CurrencyShares British Pound Sterling Trust	NYSE Arca
TFI	SPDR Nuveen Bloomberg Barclays Municipal Bond ETF	NYSE Arca
GVI	iShares Intermediate Government/Credit Bond ETF	CboeBZX
MLPX	Global X MLP & Energy Infrastructure ETF	NYSE Arca
IXJ	iShares Global Healthcare ETF	NYSE Arca
ESGD	iShares ESG MSCI EAFE ETF	NASDAQ
FNDA	Schwab Fundamental US Small Co. Index ETF	NYSE Arca
CEF	Sprott Physical Gold and Silver Trust	NYSE Arca
SLQD	iShares 0-5 Year Investment Grade Corporate Bond ETF	NASDAQ
LEMB	iShares J.P. Morgan EM Local Currency Bond ETF	NYSE Arca
IYC	iShares U.S. Consumer Services ETF	NYSE Arca
FMB	First Trust Managed Municipal ETF	NASDAQ
PDP	Invesco DWA Momentum ETF	NASDAQ
HYLS	First Trust Tactical High Yield ETF	NASDAQ
DBEU	Xtrackers MSCI Europe Hedged Equity ETF	NYSE Arca
IDEV	iShares Core MSCI International Developed Markets ETF	NYSE Arca
REET	iShares Global REIT ETF	NYSE Arca
RYT	Invesco S&P 500 Equal Weight Technology ETF	NYSE Arca
HYMB	SPDR Nuveen Bloomberg Barclays High Yield Municipal Bond ETF	NYSE Arca
MGC	Vanguard Mega Cap ETF	NYSE Arca
IDU	iShares U.S. Utilities ETF	NYSE Arca
JPIN	J.P. Morgan Diversified Return International Equity ETF	NYSE Arca
XLG	Invesco S&P 500 Top 50 ETF	NYSE Arca
SLYG	SPDR S&P 600 Small Cap Growth ETF	NYSE Arca
SCHC	Schwab International Small-Cap Equity ETF	NYSE Arca
RWO	SPDR Dow Jones Global Real Estate ETF	NYSE Arca
VIOO	Vanguard S&P Small-Cap 600 ETF	NYSE Arca
VRP	Invesco Variable Rate Preferred ETF	NYSE Arca
FXY	Invesco Currencyshares Japanese Yen Trust	NYSE Arca

Ticker	ETP Name	Exchange
RDIV	Invesco S&P Ultra Dividend Revenue ETF	NYSE Arca
PXH	Invesco FTSE RAFI Emerging Markets ETF	NYSE Arca
MGV	Vanguard Mega Cap Value ETF	NYSE Arca
CORP	PIMCO Investment Grade Corporate Bond Index ETF	NYSE Arca
VAW	Vanguard Materials ETF	NYSE Arca
EWN	iShares MSCI Netherlands ETF	NYSE Arca
BWX	SPDR Bloomberg Barclays International Treasury Bond ETF	NYSE Arca
EUM	ProShares Short MSCI Emerging Markets	NYSE Arca
QYLD	Global X NASDAQ 100 Covered Call ETF	NASDAQ
PGF	Invesco Financial Preferred ETF	NYSE Arca
FREL	Fidelity MSCI Real Estate Index ETF	NYSE Arca
IGM	iShares Expanded Tech Sector ETF	NYSE Arca
IAT	iShares U.S. Regional Banks ETF	NYSE Arca
TAN	Invesco Solar ETF	NYSE Arca
VONV	Vanguard Russell 1000 Value ETF	NASDAQ
FUTY	Fidelity MSCI Utilities Index ETF	NYSE Arca
KBA	KraneShares Boserá MSCI China A Share ETF	NYSE Arca
PRFZ	Invesco FTSE RAFI US 1500 Small-Mid ETF	NASDAQ
FBND	Fidelity Total Bond ETF	NYSE Arca
FXH	First Trust Health Care AlphaDEX Fund	NYSE Arca
PSK	SPDR Wells Fargo Preferred Stock ETF	NYSE Arca
IQLT	iShares Edge MSCI Intl Quality Factor ETF	NYSE Arca
EPHE	iShares MSCI Philippines ETF	NYSE Arca
ITM	VanEck Vectors AMT-Free Intermediate Municipal Index ETF	CboeBZX
GSIE	Goldman Sachs ActiveBeta International Equity ETF	NYSE Arca
DLN	WisdomTree U.S. LargeCap Dividend Fund	NYSE Arca
HACK	ETFMG Prime Cyber Security ETF	NYSE Arca
DJP	iPath Bloomberg Commodity Index Total Return ETN	NYSE Arca
FHLC	Fidelity MSCI Health Care Index ETF	NYSE Arca
DBJP	Xtrackers MSCI Japan Hedged Equity ETF	NYSE Arca
URTH	iShares MSCI World ETF	NYSE Arca
VYMI	Vanguard International High Dividend Yield ETF	NASDAQ
FDT	First Trust Developed Markets ex-US AlphaDEX Fund	NASDAQ
BSCL	Invesco BulletShares 2021 Corporate Bond ETF	NASDAQ
FXU	First Trust Utilities AlphaDEX Fund	NYSE Arca
BSCK	Invesco BulletShares 2020 Corporate Bond ETF	NASDAQ
IYJ	iShares U.S. Industrials ETF	CboeBZX
AGZ	iShares Agency Bond ETF	NYSE Arca
INTF	iShares Edge MSCI Multifactor Intl ETF	NYSE Arca

Ticker	ETP Name	Exchange
SPMB	SPDR Portfolio Mortgage Backed Bond ETF	NYSE Arca
GSG	iShares S&P GSCI Commodity Indexed Trust	NYSE Arca
PSJ	Invesco Dynamic Software ETF	NYSE Arca
SDIV	Global X Superdividend ETF	NYSE Arca
VIGI	Vanguard International Dividend Appreciation ETF	NASDAQ
RING	iShares MSCI Global Gold Miners ETF	NASDAQ
CWI	SPDR MSCI ACWI ex-US ETF	NYSE Arca
IWY	iShares Russell Top 200 Growth ETF	NYSE Arca
ESGU	iShares ESG MSCI USA ETF	NASDAQ
ZROZ	PIMCO 25+ Year Zero Coupon US Treasury Index ETF	NYSE Arca
SPIP	SPDR Portfolio TIPS ETF	NYSE Arca
FNCL	Fidelity MSCI Financials Index ETF	NYSE Arca
ESGE	iShares ESG MSCI EM ETF	NASDAQ
BAB	Invesco Taxable Municipal Bond ETF	NYSE Arca
PZA	Invesco National AMT-Free Municipal Bond ETF	NYSE Arca
MDYG	SPDR S&P 400 Mid Cap Growth ETF	NYSE Arca
RDVY	First Trust Rising Dividend Achievers ETF	NASDAQ
DSI	iShares MSCI KLD 400 Social ETF	NYSE Arca
BSCM	Invesco BulletShares 2022 Corporate Bond ETF	NASDAQ
IXG	iShares Global Financials ETF	NYSE Arca
CIBR	First Trust NASDAQ Cybersecurity ETF	NASDAQ
JHMM	John Hancock Multifactor Mid Cap ETF	NYSE Arca
FCG	First Trust Natural Gas ETF	NYSE Arca
PHB	Invesco Fundamental High Yield Corporate Bond ETF	NYSE Arca
FV	First Trust Dorsey Wright Focus 5 ETF	NASDAQ
BSJL	Invesco Bulletshares 2021 High Yield Corporate Bond ETF	NASDAQ
FNDC	Schwab Fundamental International Small Co. Index ETF	NYSE Arca
DVYE	iShares Emerging Markets Dividend ETF	NYSE Arca
DES	WisdomTree U.S. SmallCap Dividend Fund	NYSE Arca
VONE	Vanguard Russell 1000 ETF	NASDAQ
GNR	SPDR S&P Global Natural Resources ETF	NYSE Arca
FPX	First Trust US Equity Opportunities ETF	NYSE Arca
BSJK	Invesco BulletShares 2020 High Yield Corporate Bond ETF	NASDAQ
PSLV	Sprott Physical Silver Trust	NYSE Arca
SUSA	iShares MSCI USA ESG Select ETF	NYSE Arca
AOM	iShares Core Moderate Allocation ETF	NYSE Arca
IEO	iShares U.S. Oil & Gas Exploration & Production ETF	CboeBZX
XMMO	Invesco S&P MidCap Momentum ETF	NYSE Arca
PPA	Invesco Aerospace & Defense ETF	NYSE Arca

Ticker	ETP Name	Exchange
NUSI	Nationwide Risk-Managed Income ETF	NYSE Arca
COMT	iShares Commodities Select Strategy ETF	NASDAQ
PDEC	Innovator S&P 500 Power Buffer ETF - December	CboeBZX
EBND	SPDR Bloomberg Barclays Emerging Markets Local Bond ETF	NYSE Arca
CMF	iShares California Muni Bond ETF	NYSE Arca
VOOV	Vanguard S&P 500 Value ETF	NYSE Arca
IGE	iShares North American Natural Resources ETF	CboeBZX
FDL	First Trust Morningstar Dividend Leaders Index Fund	NYSE Arca
PXF	Invesco FTSE RAFI Developed Markets ex-U.S. ETF	NYSE Arca
PFFD	Global X U.S. Preferred ETF	CboeBZX
ROBO	ROBO Global Robotics & Automation Index ETF	NYSE Arca
IBDL	iShares iBonds Dec 2020 Term Corporate ETF	NYSE Arca
IDLY	Invesco S&P International Developed Low Volatility ETF	NYSE Arca
FFTY	Innovator IBD 50 ETF	NYSE Arca
SPHB	Invesco S&P 500 High Beta ETF	NYSE Arca
DLS	WisdomTree International SmallCap Dividend Fund	NYSE Arca
LRGF	iShares Edge MSCI Multifactor USA ETF	NYSE Arca
SDOG	ALPS Sector Dividend Dogs ETF	NYSE Arca
QQEW	First Trust Nasdaq-100 Equal Weighted Index Fund	NASDAQ
CQQQ	Invesco China Technology ETF	NYSE Arca
EPOL	iShares MSCI Poland ETF	NYSE Arca
REZ	iShares Residential Real Estate ETF	NYSE Arca
DBA	Invesco DB Agriculture Fund	NYSE Arca
ARKW	ARK Next Generation Internet ETF	NYSE Arca
FSTA	Fidelity MSCI Consumer Staples Index ETF	NYSE Arca
JXI	iShares Global Utilities ETF	NYSE Arca
AOR	iShares Core Growth Allocation ETF	NYSE Arca
MOO	VanEck Vectors Agribusiness ETF	NYSE Arca
IBDM	iShares iBonds Dec 2021 Term Corporate ETF	NYSE Arca
GREK	Global X MSCI Greece ETF	NYSE Arca
PKW	Invesco Buyback Achievers ETF	NASDAQ
QUS	SPDR MSCI USA StrategicFactors ETF	NYSE Arca
XT	iShares Exponential Technologies ETF	NASDAQ
PALL	Aberdeen Standard Physical Palladium Shares ETF	NYSE Arca
GEM	Goldman Sachs ActiveBeta Emerging Markets Equity ETF	NYSE Arca
BBCA	JPMorgan BetaBuilders Canada ETF	CboeBZX
ESGV	Vanguard ESG U.S. Stock ETF	CboeBZX
INDY	iShares India 50 ETF	NASDAQ
FEX	First Trust Large Cap Core AlphaDEX Fund	NASDAQ

Ticker	ETP Name	Exchange
MNA	IQ Merger Arbitrage ETF	NYSE Arca
NFRA	FlexShares STOXX Global Broad Infrastructure Index Fund	NYSE Arca
RPAR	RPAR Risk Parity ETF	NYSE Arca
EWX	SPDR S&P Emerging Markets Small Cap ETF	NYSE Arca
BSJM	Invesco BulletShares 2022 High Yield Corporate Bond ETF	NASDAQ
FEM	First Trust Emerging Markets AlphaDEX Fund	NASDAQ
PTF	Invesco DWA Technology Momentum ETF	NASDAQ
ARKG	ARK Genomic Revolution ETF	CboeBZX
JKH	iShares Morningstar Mid-Cap Growth ETF	NYSE Arca
GBF	iShares Government/Credit Bond ETF	NYSE Arca
SILJ	ETFMG Prime Junior Silver Miners ETF	NYSE Arca
SLY	SPDR S&P 600 Small Cap ETF	NYSE Arca
FTC	First Trust Large Cap Growth AlphaDEX Fund	NASDAQ
FTA	First Trust Large Cap Value AlphaDEX Fund	NASDAQ
QDF	FlexShares Quality Dividend Index Fund	NYSE Arca
IBDN	iShares iBonds Dec 2022 Term Corporate ETF	NYSE Arca
JPUS	JPMorgan Diversified Return U.S. Equity ETF	NYSE Arca
AMZA	InfraCap MLP ETF	NYSE Arca
IBDO	iShares iBonds Dec 2023 Term Corporate ETF	NYSE Arca
SRET	Global X SuperDividend REIT ETF	NASDAQ
VNM	VanEck Vectors Vietnam ETF	CboeBZX
BSCN	Invesco Bulletshares 2023 Corporate Bond ETF	NASDAQ
USSG	Xtrackers MSCI USA ESG Leaders Equity ETF	NYSE Arca
EMRY	iShares Emerging Markets High Yield Bond ETF	CboeBZX
IPAC	iShares Core MSCI Pacific ETF	NYSE Arca
RYU	Invesco S&P 500 Equal Weight Utilities ETF	NYSE Arca
BSCO	Invesco BulletShares 2024 Corporate Bond ETF	NASDAQ
PWV	Invesco Dynamic Large Cap Value ETF	NYSE Arca
ICLN	iShares Global Clean Energy ETF	NASDAQ
SMMV	iShares Edge MSCI Min Vol USA Small-Cap ETF	CboeBZX
FLCO	Franklin Liberty Investment Grade Corporate ETF	NYSE Arca
CLOU	Global X Cloud Computing ETF	NASDAQ
PLW	Invesco 1-30 Laddered Treasury ETF	NASDAQ
100	iShares Global 100 ETF	NYSE Arca
PPH	VanEck Vectors Pharmaceutical ETF	NASDAQ
SPGP	Invesco S&P 500 GARP ETF	NYSE Arca
FINX	Global X FinTech ETF	NASDAQ
KXI	iShares Global Consumer Staples ETF	NYSE Arca
RHS	Invesco S&P 500 Equal Weight Consumer Staples ETF	NYSE Arca

Ticker	ETP Name	Exchange
DIV	Global X SuperDividend US ETF	NYSE Arca
FDIS	Fidelity MSCI Consumer Discretionary Index ETF	NYSE Arca
PFXF	VanEck Vectors Preferred Securities ex Financials ETF	NYSE Arca
IYM	iShares U.S. Basic Materials ETF	NYSE Arca
SIVR	Aberdeen Standard Physical Silver Shares ETF	NYSE Arca
FXG	First Trust Consumer Staples AlphaDEX Fund	NYSE Arca
PICK	iShares MSCI Global Metals & Mining Producers ETF	CboeBZX
TFLO	iShares Treasury Floating Rate Bond ETF	NYSE Arca
IWC	iShares Micro-Cap ETF	NYSE Arca
FENY	Fidelity MSCI Energy Index ETF	NYSE Arca
NUAG	Nuveen Enhanced Yield U.S. Aggregate Bond ETF	NYSE Arca
JKE	iShares Morningstar Large-Cap Growth ETF	NYSE Arca
MXI	iShares Global Materials ETF	NYSE Arca
IBDP	iShares iBonds Dec 2024 Term Corporate ETF	NYSE Arca
LVHD	Legg Mason Low Volatility High Dividend ETF	NASDAQ
DBEH	iM DBi Hedge Strategy ETF	NYSE Arca
FXR	First Trust Industrials/Producer Durables AlphaDEX Fund	NYSE Arca
IYY	iShares Dow Jones U.S. ETF	NYSE Arca
EZM	WisdomTree U.S. MidCap Fund	NYSE Arca
XPH	SPDR S&P Pharmaceuticals ETF	NYSE Arca
DFJ	WisdomTree Japan SmallCap Dividend Fund	NYSE Arca
PCEF	Invesco CEF Income Composite ETF	NYSE Arca
LIT	Global X Lithium & Battery Tech ETF	NYSE Arca
AOK	iShares Core Conservative Allocation ETF	NYSE Arca
ILTB	iShares Core 10+ Year USD Bond ETF	NYSE Arca
IQDF	FlexShares International Quality Dividend Index Fund	NYSE Arca
USMC	Principal U.S. Mega-Cap Multi-Factor Index ETF	NASDAQ
IHE	iShares U.S. Pharmaceuticals ETF	NYSE Arca
FDVV	Fidelity High Dividend ETF	NYSE Arca
FXD	First Trust Consumer Discretionary AlphaDEX Fund	NYSE Arca
FM	iShares MSCI Frontier 100 ETF	NYSE Arca
PTMC	Pacer Trendpilot US Mid Cap ETF	CboeBZX
TDIV	First Trust NASDAQ Technology Dividend Index Fund	NASDAQ
QLTA	iShares Aaa-A Rated Corporate Bond ETF	NYSE Arca
ICVT	iShares Convertible Bond ETF	CboeBZX
SCHK	Schwab 1000 Index ETF	NYSE Arca
SMDV	ProShares Russell 2000 Dividend Growers ETF	CboeBZX
AVUS	Avantis U.S. Equity ETF	NYSE Arca
REGL	ProShares S&P MidCap 400 Dividend Aristocrats ETF	CboeBZX

Ticker	ETP Name	Exchange
FLQL	Franklin LibertyQ U.S. Equity ETF	CboeBZX
IXP	iShares Global Comm Services ETF	NYSE Arca
BBAX	JPMorgan BetaBuilders Developed Asia ex-Japan ETF	CboeBZX
PUI	Invesco DWA Utilities Momentum ETF	NASDAQ
XHE	SPDR S&P Health Care Equipment ETF	NYSE Arca
XSOE	WisdomTree Emerging Markets ex-State-Owned Enterprises Fund	NYSE Arca
HYEM	VanEck Vectors Emerging Markets High Yield Bond ETF	NYSE Arca
FCOM	Fidelity MSCI Communication Services Index ETF	NYSE Arca
CFA	VictoryShares US 500 Volatility Wtd ETF	NASDAQ
RYH	Invesco S&P 500 Equal Weight Health Care ETF	NYSE Arca
DBO	Invesco DB Oil Fund	NYSE Arca
CGW	Invesco S&P Global Water Index ETF	NYSE Arca
BAR	GraniteShares Gold Shares	NYSE Arca
PEY	Invesco High Yield Equity Dividend Achievers ETF	NASDAQ
IBDQ	iShares iBonds Dec 2025 Term Corporate ETF	NYSE Arca
AOA	iShares Core Aggressive Allocation ETF	NYSE Arca
EES	WisdomTree U.S. SmallCap Fund	NYSE Arca
PTNQ	Pacer Trendpilot 100 ETF	CboeBZX
CMBS	iShares CMBS ETF	NYSE Arca
ATMP	Barclays ETN+ Select MLP ETN	CboeBZX
PHO	Invesco Water Resources ETF	NASDAQ
LDUR	PIMCO Enhanced Low Duration Active ETF	NYSE Arca
CFO	VictoryShares US 500 Enhanced Volatility Wtd ETF	NASDAQ
GIGB	Goldman Sachs Access Investment Grade Corporate Bond ETF	NYSE Arca
DTD	WisdomTree U.S. Total Dividend Fund	NYSE Arca
FDLO	Fidelity Low Volatility Factor ETF	NYSE Arca
JO	iPath Series B Bloomberg Coffee Subindex Total Return ETN	NYSE Arca
HDGE	AdvisorShares Ranger Equity Bear ETF	NYSE Arca
JAGG	J.P. Morgan Exchange-Traded Fund Trust	NYSE Arca
LTPZ	PIMCO 15+ Year US TIPS Index ETF	NYSE Arca
SNLN	Highland iBoxx Senior Loan ETF	NASDAQ
SMIN	iShares MSCI India Small Cap ETF	CboeBZX
SHE	SPDR SSGA Gender Diversity Index ETF	NYSE Arca
DWX	SPDR S&P International Dividend ETF	NYSE Arca
FLTR	VanEck Vectors Investment Grade Floating Rate ETF	NYSE Arca
FEP	First Trust Europe AlphaDEX Fund	NASDAQ
GWX	SPDR S&P International Small Cap ETF	NYSE Arca
VSGX	Vanguard ESG International Stock ETF	CboeBZX
ARGT	Global X MSCI Argentina ETF	NYSE Arca

Ticker	ETP Name	Exchange
AMU	ETRACS Alerian MLP Index ETN	NYSE Arca
ENZL	iShares MSCI New Zealand ETF	NASDAQ
IVOO	Vanguard S&P Mid-Cap 400 ETF	NYSE Arca
POCT	Innovator S&P 500 Power Buffer ETF - October	CboeBZX
PSCH	Invesco S&P SmallCap Health Care ETF	NASDAQ
TPYP	Tortoise North American Pipeline Fund	NYSE Arca
AWTM	Aware Ultra-Short Duration Enhanced Income ETF	NYSE Arca
XSW	SPDR S&P Software & Services ETF	NYSE Arca
IVLU	iShares Edge MSCI Intl Value Factor ETF	NYSE Arca
VRIG	Invesco Variable Rate Investment Grade ETF	NASDAQ
ZIV	VelocityShares Daily Inverse VIX Medium-Term ETN	NASDAQ
QAI	IQ Hedge Multi-Strategy Tracker ETF	NYSE Arca
FGD	First Trust Dow Jones Global Select Dividend Index Fund	NYSE Arca
XNTK	SPDR NYSE Technology ETF	NYSE Arca
PNQI	Invesco NASDAQ Internet ETF	NASDAQ
VTC	Vanguard Total Corporate Bond ETF	NASDAQ
EXI	iShares Global Industrials ETF	NYSE Arca
FLTB	Fidelity Limited Term Bond ETF	NYSE Arca
SRVR	Pacer Benchmark Data & Infrastructure Real Estate SCTR ETF	NYSE Arca
EPS	WisdomTree U.S. LargeCap Fund	NYSE Arca
FXC	Invesco CurrencyShares Canadian Dollar Trust	NYSE Arca
REMX	VanEck Vectors Rare Earth/Strategic Metals ETF	NYSE Arca
ULST	SPDR SSgA Ultra Short Term Bond ETF	NYSE Arca
BOCT	Innovator S&P 500 Buffer ETF - October	CboeBZX
SUSL	iShares ESG MSCI USA Leaders ETF	NASDAQ
TILT	FlexShares Morningstar US Market Factor Tilt Index Fund	CboeBZX
EPU	iShares MSCI Peru ETF	NYSE Arca
PWB	Invesco Dynamic Large Cap Growth ETF	NYSE Arca
BSCP	Invesco Bulletshares 2025 Corporate Bond ETF	NASDAQ
PNOV	Innovator S&P 500 Power Buffer ETF - November	CboeBZX
WIP	SPDR FTSE International Government Inflation-Protected Bond ETF	NYSE Arca
BDEC	Innovator S&P 500 Buffer ETF - December	CboeBZX
SCHI	Schwab 5-10 Year Corporate Bond ETF	NYSE Arca
PJP	Invesco Dynamic Pharmaceuticals ETF	NYSE Arca
HDEF	Xtrackers MSCI EAFE High Dividend Yield Equity ETF	NYSE Arca
IHDG	WisdomTree International Hedged Quality Dividend Growth Fund	NYSE Arca
HEWG	iShares Currency Hedged MSCI Germany ETF	NASDAQ
FIDU	Fidelity MSCI Industrials Index ETF	NYSE Arca
IBDR	iShares iBonds Dec 2026 Term Corporate ETF	NYSE Arca

Ticker	ETP Name	Exchange
OUSA	O'Shares FTSE US Quality Dividend ETF	NYSE Arca
FXF	Invesco CurrencyShares Swiss Franc Trust	NYSE Arca
HFXI	IQ 50 Percent Hedged FTSE International ETF	NYSE Arca
FNY	First Trust Mid Cap Growth AlphaDEX Fund	NASDAQ
AVDE	Avantis International Equity ETF	NYSE Arca
FIW	First Trust Water ETF	NYSE Arca
FNX	First Trust Mid Cap Core AlphaDEX Fund	NASDAQ
CLTL	Invesco Treasury Collateral ETf	NYSE Arca
AIA	iShares Asia 50 ETF	NASDAQ
DVOL	First Trust Dorsey Wright Momentum & Low Volatility ETF	NASDAQ
PAUG	Innovator S&P 500 Power Buffer ETF - August	CboeBZX
DIAL	Columbia Diversified Fixed Income Allocation ETF	NYSE Arca
FXZ	First Trust Materials AlphaDEX Fund	NYSE Arca

Appendix B -- Data and Reporting

I. Data Provision. The Commission may request from the Primary Listing Exchanges the below data that is not otherwise publicly available. The requested data shall be collected and transmitted to the Commission in an agreed-upon format, to be provided 30 calendar days following the date of the request, or such other date as agreed upon by the Commission and Primary Listing Exchange. Data collected in connection with a Commission request shall be transmitted to the Commission with a request for confidential treatment under the Freedom of Information Act, 5 U.S.C. § 552, and the Commission's rules and regulations thereunder. This section shall expire at the time the below data becomes available via the National Market System Plan Governing the Consolidated Audit Trail or becomes publicly available.

- A. Data set of all orders entered during halts or Trading Pauses
 - 1. Normal or Auction Only orders, Arrivals, Changes, Cancels, # shares, limit/market, side, Limit State side
 - 2. Pipe delimited with field name as first record
- B. Data set of order events received during Limit States
- C. Summary data on order flow of arrivals and cancellations for each 15-second period for discrete time periods and sample stocks to be determined by the SEC in subsequent data requests. Must indicate side(s) of Limit State.
 - 1. Market/marketable sell orders arrivals and executions
 - a. Count
 - b. Shares
 - c. Shares executed
 - 2. Market/marketable buy orders arrivals and executions
 - a. Count
 - b. Shares
 - c. Shares executed

3. Count arriving, volume arriving and shares executing in limit sell orders above NBO mid-point
4. Count arriving, volume arriving and shares executing in limit sell orders at or below NBBO mid-point (non-marketable)
5. Count arriving, volume arriving and shares executing in limit buy orders at or above NBBO mid-point (non-marketable)
6. Count arriving, volume arriving and shares executing in limit buy orders below NBBO mid-point
7. Count and volume arriving of limit sell orders priced at or above NBBO mid-point plus \$0.05
8. Count and volume arriving of limit buy orders priced at or below NBBO mid-point minus \$0.05
9. Count and volume of (3-8) for cancels
10. Include: ticker, date, time at start, time of Limit State, all data item fields in 1, last sale prior to 15-second period (null if no trades today), range during 15-second period, last trade during 15-second period

II. Reporting

A. Annual Report. No later than March 31, 2020 and annually thereafter, the Operating Committee, in consultation with the Advisory committee, will provide the Commission and make publicly available a report containing key information concerning the Plan's performance during the preceding calendar year which shall include the following items: (1) an update on the Plan's operations; (2) an analysis of any amendments to the Plan implemented during the period covered by the report; and (3) an analysis of potential material emerging issues that may directly impact the operation of the Plan.

1. **Update on the Plan's Operations.** This section of the Annual Report shall analyze the Plan's operations during the covered period, including a discussion of any areas of the Plan's operation that require additional analysis. In particular, this section of the Annual Report shall examine the calibration of the parameters set forth in the Plan (e.g., Price Bands,

duration of Limit States, impact of Straddle States, duration of Trading Pauses, and the performance of reopening procedures following a Trading Pause). This section of the Annual Report also shall consider stock characteristics and variations in market conditions over time, and may include tests that differentiate results for different characteristics, both in isolation and in combination. This section of the Annual Report shall separately analyze the impact and operations of overnight protections implemented during Overnight Protected Hours.

2. Analysis of Amendments Implemented. This section of the Annual Report shall provide an analysis of any amendments implemented during the covered period. The analysis shall include a discussion of any such amendment's operation and its impact on the overall operation of the Plan.

3. Analysis of Emerging Issues. This section of the Annual Report should vary from year-to-year and will include a discussion and analysis of the Plan's operation during a significant market event that may have occurred during the covered period. This section shall also include any additional analyses performed during the covered period on issues that were raised in previous Annual Reports.

B. Quarterly Data. Thirty days following the end of each calendar quarter, the Operating Committee shall provide the Commission and make publicly available a report ("Monitoring Report") including basic statistics aggregated across primary listing exchanges regarding the Plan's operation during the preceding calendar quarter, as well as data aggregated across primary listing exchanges from the previous 12 quarters beginning with the calendar quarter covered by the first Monitoring Report. The purpose of the Monitoring Report is to identify trends in the performance and impact of the Plan on market activity. The Monitoring Report shall include data on the following events for each month during the preceding calendar quarter:

1. Limit States, Trading Pauses, Straddle States, and Clearly Erroneous Events

a. Definitions. For the purpose of this Section B.1 and B.2 below, the following definitions apply:

i. "Category" means the following categories of securities:

- 1) Tier 1 non-ETP securities > \$3.00
- 2) Tier 1 non-ETP securities \geq \$0.75 and \leq \$3.00
- 3) Tier 1 non-ETP securities < \$0.75
- 4) Tier 1 non-leveraged ETPs > \$3.00
- 5) Tier 1 non-leveraged ETPs \geq \$0.75 and \leq \$3.00
- 6) Tier 1 non-leveraged ETPs < \$0.75
- 7) Tier 1 leveraged ETPs > \$3.00
- 8) Tier 1 leveraged ETPs \geq \$0.75 and \leq \$3.00
- 9) Tier 1 leveraged ETPs < \$0.75
- 10) Tier 2 non-ETPs > \$3.00
- 11) Tier 2 non-ETPs \geq \$0.75 and \leq \$3.00
- 12) Tier 2 non-ETPs < \$0.75
- 13) Tier 2 non-leveraged ETPs > \$3.00
- 14) Tier 2 non-leveraged ETPs \geq \$0.75 and \leq \$3.00
- 15) Tier 2 non-leveraged ETPs < \$0.75
- 16) Tier 2 leveraged ETPs > \$3.00
- 17) Tier 2 leveraged ETPs \geq \$0.75 and \leq \$3.00
- 18) Tier 2 leveraged ETPs < \$0.75

ii. "Time of Day" means the following time spans:

- 1) Opening (prior to 9:45 am ET)
- 2) Regular (between 9:45 am ET and 25 minutes prior to the end of core trading hours)
- 3) Closing (the last 25 minutes of core trading hours)
- 4) Within five minutes of a Trading Pause reopen or IPO open

b. Limit States. The Monitoring Report will include:

i. Monthly distribution statistics (mean, median, 25th percentile, and maximum) on the number of Limit States per day, broken out by Category and Time of Day.

ii. Monthly distribution statistics (mean, median, 25th percentile, and maximum) on the number of NMS Stocks that experienced more than one Limit State on a single day, broken out by Category.

- m. Monthly distribution statistics (mean, median, 90th percentile, and 99th percentile) on the number of Limit States experienced per day by individual NMS Stocks that had more than one Limit State on a single day, broken out by Category.
- lv. Monthly distribution statistics (mean, median, 90th percentile, and 99th percentile) on the total length of Limit States experienced per day by individual NMS Stocks that had more than one Limit State on a single day, broken out by Category.
- c. Trading Pauses. The Monitoring Report will include:
 - 1. Monthly distribution statistics (mean, median, 25th percentile, and maximum) on the number of Trading Pauses per day, broken out by Category and Time of Day.
 - 11. Monthly distribution statistics (mean, median, 25th percentile, and maximum) on the number of NMS Stocks that experienced more than one Trading Pause on a single day, broken out by Category.
 - m. Monthly distribution statistics (mean, median, 90th percentile, and maximum) on the number of Trading Pauses per day experienced by individual NMS Stocks having more than one Trading Pause on a single day, broken out by Category.
- d. Straddle States. The Monitoring Report will include:
 - 1. Monthly distribution statistics (mean, median, 25th percentile, and maximum) on the number of Straddle States per day, broken out by Category and Time of Day.

11. Monthly distribution statistics (mean, median, 25th percentile, and maximum) on the number of NMS Stocks that experienced more than one Straddle State on a single day, broken out by Category.
 111. Monthly distribution statistics (mean, median, 90th percentile, and 99.9th percentile) on the total time spent in a Straddle State per day for individual NMS Stocks experiencing one or more Straddle States on a single day, broken out by Category.
- e. The Monitoring Report will include the number of Clearly Erroneous Events per day for all NMS Stocks that occurred during the time when Price Bands are disseminated by the Processor, broken out by Category and Time of Day.

2. Reopening Data

- a. Definitions. For the purpose of this Section B.2, the following definitions apply:
1. "Type of Reopening" means either (1) manual or (2) automated.
 11. "Category" means the following categories of securities:
 - 1) Tier 1 non-ETP securities
 - 2) Tier 1 non-leveraged ETPs
 - 3) Tier 1 leveraged ETPs
 - 4) Tier 2 non-ETP securities
 - 5) Tier 2 non-leveraged ETPs
 - 6) Tier 2 leveraged ETPs
 11. "Length of the Trading Pause" means the following durations:
 - 1) less than 6 minutes (for manual reopenings) or no extensions of the Trading Pause (for automated reopenings);
 - 2) 6 to 10 minutes (for manual reopenings) or one extension of the Trading Pause (for automated reopenings);
 - 3) more than 10 minutes (for manual reopenings) or more than one

extension of the Trading Pause (for automated reopenings)

- b. The Monitoring Report will include the following monthly data on reopenings:
 - i. The number of Trading Pauses per month, broken out by (1) Type of Reopening, (2) Category, and (3) Length of the Trading Pause.
 - ii. Monthly distribution statistics (mean, median, 90th percentile, and 99th percentile) on the duration of each Trading Pause, broken out by (1) Type of Reopening and (2) Category.
- m. The number of Trading Pauses ending in a:
 - 1) trade;
 - 2) quote; and
 - 3) potential closing auction,broken out by (a) Type of Reopening, (b) Category, and (c) Length of Trading Pause.
- iv. For Trading Pauses in NMS Stocks preceded by a Limit Up state, monthly distribution statistics (mean, median, 90th percentile, and 99th percentile) on the percentage price change from the Limit Up pricing that triggered the Trading Pause to the reopening price on exiting the Trading Pause (i.e., the reopening trade or midpoint price), broken out by (1) Category and (2) whether the Trading Pause ended in a trade or (3) in a quote (i.e., the reopening price was a midpoint).
- v. For Trading Pauses in NMS Stocks preceded by a Limit Down state, monthly distribution statistics (mean, median, 90th percentile, and 99th percentile) on the percentage price change from the Limit Down pricing

that triggered the Trading Pause to the reopening price on exiting the Trading Pause (i.e., the reopening trade or midpoint price), broken out by (1) Category and (2) whether the Trading Pause ended in a trade or (3) in a quote (i.e., the reopening price was a midpoint).

- v1. For Trading Pauses in NMS Stocks where the reopening process ended in a trade or quote (with resulting reference price equal to the midpoint of that quote), monthly distribution statistics (mean, median, 90th percentile, and 99th percentile) on the percentage price change from the reopening price on exiting the Trading Pause (i.e., the reopening trade or midpoint price) to
- 1) the highest price of all last sale eligible trades;
 - 2) the lowest price of all last sale eligible trades; and
 - 3) the trade-weighted average price of all last sale eligible trades for the five minutes following the conclusion of the Trading Pause, broken out by (a) Category, (b) whether the Trading Pause was preceded by a Limit Up state or (c) a Limit Down state, and (d) whether the Trading Pause ended in a trade or (e) in a quote (i.e., the reopening price was a midpoint).

3. Overnight Data. The Monitoring Report will include monthly data on overnight protections, such to be determined by the Participants.

C. **Reports on Market Events.** At the Commission's request, the Operating Committee shall provide the Commission and make publicly available a report analyzing the Plan's operation during a significant market event that (1) materially impacted the trading of more than one security across multiple Trading Centers; and (2) is directly related to or implicating the performance of the

Plan. Such report shall be provided to the Commission no later than 30 days following the Commission's request, or at a later date as agreed upon between the Commission and the Operation Committee. The requirement to submit a report under this section may be satisfied by including the required analysis within an Annual Report.