

**EXHIBIT A**

**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, or, if the Primary Listing Exchange opens with quotations, the midpoint of those quotations.
- (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) “Regular Trading Hours” shall have the meaning provided in Rule 600(b)(64) 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.

(S) “Regulatory Halt” shall have the meaning specified in the Market Data Plans.

(T) “Reference Price” shall have the meaning provided in Section V of the Plan.

(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) BATS Exchange, Inc.  
8050 Marshall Drive  
Lenexa, Kansas 66214
- (2) BATS Y-Exchange, Inc.  
8050 Marshall Drive  
Lenexa, Kansas 66214
- (3) Chicago Board Options Exchange, Incorporated  
400 South LaSalle Street  
Chicago, Illinois 60605
- (4) Chicago Stock Exchange, Inc.  
440 South LaSalle Street  
Chicago, Illinois 60605
- (5) EDGA Exchange, Inc.  
545 Washington Boulevard  
Sixth Floor  
Jersey City, NJ 07310
- (6) EDGX Exchange, Inc.  
545 Washington Boulevard  
Sixth Floor  
Jersey City, NJ 07310
- (7) Financial Industry Regulatory Authority, Inc.  
1735 K Street, NW

Washington, DC 20006

- (8) NASDAQ OMX BX, Inc.  
One Liberty Plaza  
New York, New York 10006
- (9) NASDAQ OMX PHLX LLC  
1900 Market Street  
Philadelphia, Pennsylvania 19103
- (10) The Nasdaq Stock Market LLC  
1 Liberty Plaza  
165 Broadway  
New York, NY 10006
- (11) National Stock Exchange, Inc.  
101 Hudson, Suite 1200  
Jersey City, NJ 07302
- (12) New York Stock Exchange LLC  
11 Wall Street  
New York, New York 10005
- (13) NYSE MKT LLC  
20 Broad Street  
New York, New York 10005
- (14) NYSE Arca, Inc.  
100 South Wacker Drive  
Suite 1800  
Chicago, IL 60606
- (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; and (4) 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.

(2) 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.

(3) 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 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 9:30 a.m. and 9:45 a.m. ET, and 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. If a Reopening Price does not occur within ten minutes after the beginning of a Trading Pause, the Price Band, for the first 30 seconds following the reopening after that Trading Pause, shall be calculated by applying triple the Percentage Parameters set forth in Appendix A.

(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, the next Reference Price shall be the Reopening Price on the Primary Listing Exchange if such Reopening Price occurs within ten minutes after the beginning of the Trading Pause, and subsequent Reference Prices shall be determined in the manner prescribed for normal openings, as specified in Section V(B)(1) of the Plan. If such Reopening Price does not occur within ten minutes after the beginning of the Trading Pause, the first Reference Price following the Trading Pause shall be equal to the last effective Reference Price 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)(1) 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 does not update the last sale price (except if solely because the transaction was reported late) and 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. If trading for an NMS Stock is in a Limit State at the end of Regular Trading Hours, the Limit State will terminate when the Primary Listing Exchange executes a closing transaction in the NMS Stock or five minutes after the end of Regular Trading Hours, whichever is earlier.

## 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 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 for any reason other than a significant order imbalance and if it has not



declared a Regulatory Halt. The Processor shall disseminate this information to the public, and all trading centers may begin trading the NMS Stock at this time.

(3) If the Primary Listing Exchange does not report a Reopening Price within ten minutes after the declaration of a Trading Pause in an NMS Stock, and has not declared a Regulatory Halt, all trading centers may begin trading the NMS Stock.

(4) When trading begins after a Trading Pause, the Processor shall update the Price Bands as set forth in Section V(C)(1) of the Plan.

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

(1) If a Trading Pause for an NMS Stock is declared less than five minutes before the end of Regular Trading Hours, the Primary Listing Exchange 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. Implementation

(A) Phase I

(1) Phase I of Plan implementation shall apply immediately following the initial date of Plan operations.

(2) During Phase I, the Plan shall apply only to the Tier 1 NMS Stocks identified in Appendix A of the Plan.

(3) During Phase I, the first Price Bands for a trading day shall be calculated and disseminated 15 minutes after the start of Regular Trading Hours as specified in Section (V)(A)

of the Plan. No Price Bands shall be calculated and disseminated less than 30 minutes before the end of Regular Trading Hours, and trading shall not enter a Limit State less than 25 minutes before the end of Regular Trading Hours.

(B) Phase II – Full Implementation

Six months after the initial date of Plan operations, or such earlier date as may be announced by the Processor with at least 30 days notice, the Plan shall fully apply (i) to all NMS Stocks; and (ii) beginning at 9:30 a.m. ET, and ending at 4:00 p.m. ET each trading day, or earlier in the case of an early scheduled close or if the Processor disseminates a closing trade for the Primary Listing Exchange.

(C) Pilot

The Plan shall be implemented on a one-year pilot basis.

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.

X. 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 \_\_\_\_\_ 2012 by each of the parties hereto.

BATS EXCHANGE, INC.

BY: \_\_\_\_\_

CHICAGO BOARD OPTIONS  
EXCHANGE, INCORPORATED

BY: \_\_\_\_\_

EDGA EXCHANGE, INC.

BY: \_\_\_\_\_

FINANCIAL INDUSTRY  
REGULATORY AUTHORITY, INC.

BY: \_\_\_\_\_

NASDAQ OMX PHLX LLC

BY: \_\_\_\_\_

NATIONAL STOCK EXCHANGE, INC.

BY: \_\_\_\_\_

NYSE MKT LLC

BY: \_\_\_\_\_

BATS Y-EXCHANGE, INC.

BY: \_\_\_\_\_

CHICAGO STOCK EXCHANGE, INC.

BY: \_\_\_\_\_

EDGX EXCHANGE, INC.

BY: \_\_\_\_\_

NASDAQ OMX BX, INC.

BY: \_\_\_\_\_

THE NASDAQ STOCK MARKET LLC

BY: \_\_\_\_\_

NEW YORK STOCK EXCHANGE LLC

BY: \_\_\_\_\_

NYSE ARCA, INC.

BY: \_\_\_\_\_

## 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, the Russell 1000 Index, and the exchange-traded products (“ETP”) listed on 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 (“CADV”). The period used to measure CADV 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 CADV will be eligible to be included as a Tier 1 NMS Stock. To ensure that ETPs that track similar benchmarks but that do not meet this volume criterion do not become subject to pricing volatility when a component security is the subject of a trading pause, non-leveraged ETPs that have traded below this volume criterion, but that track the same benchmark as an ETP that does meet the volume criterion, will be deemed 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

Symbol	Name
AAVX	ETRACS Daily Short 1-Month S&P 500 VIX Futures ETN
AAXJ	iShares MSCI All Country Asia ex Japan Index Fund
ACWI	iShares MSCI ACWI Index Fund
ACWX	iShares MSCI ACWI ex US Index Fund
AGG	iShares Barclays Aggregate Bond Fund
AGZ	iShares Barclays Agency Bond Fund
ALD	WisdomTree Asia Local Debt Fund
AMJ	JPMorgan Alerian MLP Index ETN
AMLP	Alerian MLP ETF
BAB	PowerShares Build America Bond Portfolio
BDG	PowerShares DB Base Metals Long ETN
BIK	SPDR S&P BRIC 40 ETF
BIL	SPDR Barclays Capital 1-3 Month T-Bill ETF
BIV	Vanguard Intermediate-Term Bond ETF
BKF	iShares MSCI BRIC Index Fund
BKLN	PowerShares Senior Loan Portfolio
BLV	Vanguard Long-Term Bond ETF
BND	Vanguard Total Bond Market ETF
BNO	United States Brent Oil Fund LP
BOND	Pimco Total Return ETF
BOS	PowerShares DB Base Metals Short ETN
BRF	Market Vectors Brazil Small-Cap ETF
BSV	Vanguard Short-Term Bond ETF
BWX	SPDR Barclays Capital International Treasury Bond ETF
BXDB	Barclays ETN+short B Leveraged ETN Linked to S&P 500
CEW	WisdomTree Dreyfus Emerging Currency Fund
CFT	iShares Barclays Credit Bond Fund
CIU	iShares Barclays Intermediate Credit Bond Fund
CLY	iShares 10+ Year Credit Bond Fund
CORN	Teucrium Corn Fund
CSJ	iShares Barclays 1-3 Year Credit Bond Fund
CVY	Guggenheim Multi-Asset Income ETF
CWB	SPDR Barclays Capital Convertible Securities ETF
CWI	SPDR MSCI ACWI ex-US ETF
CYB	WisdomTree Dreyfus Chinese Yuan Fund
DBA	PowerShares DB Agriculture Fund
DBB	PowerShares DB Base Metals Fund
DBC	PowerShares DB Commodity Index Tracking Fund

Symbol	Name
DBE	PowerShares DB Energy Fund
DBO	PowerShares DB Oil Fund
DBP	PowerShares DB Precious Metals Fund
DBV	PowerShares DB G10 Currency Harvest Fund
DEM	WisdomTree Emerging Markets Equity Income Fund
DGL	PowerShares DB Gold Fund
DGS	WisdomTree Emerging Markets SmallCap Dividend Fund
DGZ	PowerShares DB Gold Short ETN
DHS	WisdomTree Equity Income Fund
DIA	SPDR Dow Jones Industrial Average ETF Trust
DJCI	E-TRACS UBS AG Dow Jones-UBS Commodity Index Total Return ETN
DJP	iPath Dow Jones-UBS Commodity Index Total Return ETN
DLN	WisdomTree LargeCap Dividend Fund
DOG	ProShares Short Dow30
DON	WisdomTree MidCap Dividend Fund
DOO	WisdomTree International Dividend Ex-Financials Fund
DTN	WisdomTree Dividend Ex-Financials Fund
DVY	iShares Dow Jones Select Dividend Index Fund
DWM	WisdomTree DEFA Fund
DWX	SPDR S&P International Dividend ETF
DXJ	WisdomTree Japan Hedged Equity Fund
ECH	iShares MSCI Chile Investable Market Index Fund
ECON	EGShares Emerging Markets Consumer ETF
EDIV	SPDR S&P Emerging Markets Dividend ETF
EDV	Vanguard Extended Duration Treasury ETF
EEB	Guggenheim BRIC ETF
EEM	iShares MSCI Emerging Markets Index Fund
EFA	iShares MSCI EAFE Index Fund
EFG	iShares MSCI EAFE Growth Index
EFV	iShares MSCI EAFE Value Index
EFZ	ProShares Short MSCI EAFE
EIDO	iSHARES MSCI Indonesia Investable Market Index Fund
ELD	WisdomTree Emerging Markets Local Debt Fund
ELR	SPDR Dow Jones Large Cap ETF
EMB	iShares JPMorgan USD Emerging Markets Bond Fund
EMLC	Market Vectors Emerging Markets Local Currency Bond ETF
EMM	SPDR Dow Jones Mid Cap ETF
EPHE	iShares MSCI Philippines Investable Market Index Fund



Symbol	Name
EPI	WisdomTree India Earnings Fund
EPP	iShares MSCI Pacific ex-Japan Index Fund
EPU	iShares MSCI All Peru Capped Index Fund
ERUS	iShares MSCI Russia Capped Index Fund
EUM	ProShares Short MSCI Emerging Markets
EWA	iShares MSCI Australia Index Fund
EWC	iShares MSCI Canada Index Fund
EWD	iShares MSCI Sweden Index Fund
EWG	iShares MSCI Germany Index Fund
EWH	iShares MSCI Hong Kong Index Fund
EWI	iShares MSCI Italy Index Fund
EWJ	iShares MSCI Japan Index Fund
EWL	iShares MSCI Switzerland Index Fund
EWM	iShares MSCI Malaysia Index Fund
EWP	iShares MSCI Spain Index Fund
EWQ	iShares MSCI France Index Fund
EWS	iShares MSCI Singapore Index Fund
EWT	iShares MSCI Taiwan Index Fund
EWU	iShares MSCI United Kingdom Index Fund
EWV	iShares MSCI Mexico Investable Market Index Fund
EWX	SPDR S&P Emerging Markets SmallCap ETF
EWY	iShares MSCI South Korea Index Fund
EWZ	iShares MSCI Brazil Index Fund
EZA	iShares MSCI South Africa Index Fund
EZU	iShares MSCI EMU Index Fund
FBT	First Trust NYSE Arca Biotechnology Index Fund
FCG	First Trust ISE-Revere Natural Gas Index Fund
FDL	First Trust Morningstar Dividend Leaders Index
FDN	First Trust Dow Jones Internet Index Fund
FEX	First Trust Large Cap Core AlphaDEX Fund
FEZ	SPDR EURO STOXX 50 ETF
FGD	First Trust DJ Global Select Dividend Index Fund
FLAT	iPath US Treasury Flatteners ETN
FNX	First Trust Mid Cap Core AlphaDEX Fund
FRI	First Trust S&P REIT Index Fund
FVD	First Trust Value Line Dividend Index Fund
FXA	CurrencyShares Australian Dollar Trust
FXB	CurrencyShares British Pound Sterling Trust
FXC	CurrencyShares Canadian Dollar Trust

Symbol	Name
FXD	First Trust Consumer Discretionary AlphaDEX Fund
FXE	CurrencyShares Euro Trust
FXF	CurrencyShares Swiss Franc Trust
FXG	First Trust Consumer Staples AlphaDEX Fund
FXH	First Trust Health Care AlphaDEX Fund
FXI	iShares FTSE China 25 Index Fund
FXL	First Trust Technology AlphaDEX Fund
FXU	First Trust Utilities AlphaDEX Fund
FXY	CurrencyShares Japanese Yen Trust
FXZ	First Trust Materials AlphaDEX Fund
GAZ	iPath Dow Jones-UBS Natural Gas Subindex Total Return ETN
GCC	GreenHaven Continuous Commodity Index Fund
GDX	Market Vectors Gold Miners ETF
GDXJ	Market Vectors Junior Gold Miners ETF
GIY	Guggenheim Enhanced Core Bond ETF
GLD	SPDR Gold Shares
GMF	SPDR S&P Emerging Asia Pacific ETF
GNR	SPDR S&P Global Natural Resources ETF
GOVT	iShares Barclays U.S. Treasury Bond Fund
GSG	iShares S&P GSCI Commodity Indexed Trust
GSP	iPath GSCI Total Return Index ETN
GSY	Guggenheim Enhanced Short Duration Bond ETF
GVI	iShares Barclays Intermediate Government/Credit Bond Fund
GWX	SPDR S&P International Small Cap ETF
GXC	SPDR S&P China ETF
GXG	Global X FTSE Colombia 20 ETF
HAO	Guggenheim China Small Cap ETF
HDGE	Active Bear ETF/The
HDV	iShares High Dividend Equity Fund
HYD	Market Vectors High Yield Municipal Index ETF
HYG	iShares iBoxx \$ High Yield Corporate Bond Fund
HYS	PIMCO 0-5 Year High Yield Corporate Bond Index Fund
IAU	iShares Gold Trust
IBB	iShares Nasdaq Biotechnology Index Fund
ICF	iShares Cohen & Steers Realty Majors Index Fund
ICI	iPath Optimized Currency Carry ETN
IDU	iShares Dow Jones US Utilities Sector Index Fund
IDV	iShares Dow Jones International Select Dividend Index Fund
IDX	Market Vectors Indonesia Index ETF

Symbol	Name
IEF	iShares Barclays 7-10 Year Treasury Bond Fund
IEI	iShares Barclays 3-7 Year Treasury Bond Fund
IEO	iShares Dow Jones US Oil & Gas Exploration & Production Index Fund
IEV	iShares S&P Europe 350 Index Fund
IEZ	iShares Dow Jones US Oil Equipment & Services Index Fund
IGE	iShares S&P North American Natural Resources Sector Index Fund
IGF	iShares S&P Global Infrastructure Index Fund
IGOV	iShares S&P/Citigroup International Treasury Bond Fund
IGS	ProShares Short Investment Grade Corporate
IGV	iShares S&P North American Technology-Software Index Fund
IHE	iShares Dow Jones US Pharmaceuticals Index Fund
IHF	iShares Dow Jones US Healthcare Providers Index Fund
IHI	iShares Dow Jones US Medical Devices Index Fund
IJH	iShares S&P MidCap 400 Index Fund
IJJ	iShares S&P MidCap 400/BARRA Value Index Fund
IJK	iShares S&P MidCap 400 Growth Index Fund
IJR	iShares S&P SmallCap 600 Index Fund
IJS	iShares S&P SmallCap 600 Value Index Fund
IJT	iShares S&P SmallCap 600/BARRA Growth Index Fund
ILF	iShares S&P Latin America 40 Index Fund
INDA	iShares MSCI India Index Fund
INDY	iShares S&P India Nifty 50 Index Fund
INP	iPath MSCI India Index ETN
IOO	iShares S&P Global 100 Index Fund
IPE	SPDR Barclays Capital TIPS ETF
ITB	iShares Dow Jones US Home Construction Index Fund
ITM	Market Vectors Intermediate Municipal ETF
IVE	iShares S&P 500 Value Index Fund
IVOO	Vanguard S&P Mid-Cap 400 ETF
IVOP	iPath Inverse S&P 500 VIX Short-Term Futures™ ETN II
IVV	iShares S&P 500 Index Fund/US
IVW	iShares S&P 500 Growth Index Fund
IWB	iShares Russell 1000 Index Fund
IWC	iShares Russell Microcap Index Fund
IWD	iShares Russell 1000 Value Index Fund
IWF	iShares Russell 1000 Growth Index Fund
IWM	iShares Russell 2000 Index Fund
IWN	iShares Russell 2000 Value Index Fund
IWO	iShares Russell 2000 Growth Index Fund

Symbol	Name
IWP	iShares Russell Midcap Growth Index Fund
IWR	iShares Russell Midcap Index Fund
IWS	iShares Russell Midcap Value Index Fund
IWV	iShares Russell 3000 Index Fund
IWW	iShares Russell 3000 Value Index Fund
IWY	iShares Russell Top 200 Growth Index Fund
IWZ	iShares Russell 3000 Growth Index Fund
IXC	iShares S&P Global Energy Sector Index Fund
IXG	iShares S&P Global Financials Sector Index Fund
IXJ	iShares S&P Global Healthcare Sector Index Fund
IXN	iShares S&P Global Technology Sector Index Fund
IXP	iShares S&P Global Telecommunications Sector Index Fund
IYC	iShares Dow Jones US Consumer Services Sector Index Fund
IYE	iShares Dow Jones US Energy Sector Index Fund
IYF	iShares Dow Jones US Financial Sector Index Fund
IYG	iShares Dow Jones US Financial Services Index Fund
IYH	iShares Dow Jones US Healthcare Sector Index Fund
IYJ	iShares Dow Jones US Industrial Sector Index Fund
IYK	iShares Dow Jones US Consumer Goods Sector Index Fund
IYM	iShares Dow Jones US Basic Materials Sector Index Fund
IYR	iShares Dow Jones US Real Estate Index Fund
IYT	iShares Dow Jones Transportation Average Index Fund
IYW	iShares Dow Jones US Technology Sector Index Fund
IYY	iShares Dow Jones US Index Fund
IYZ	iShares Dow Jones US Telecommunications Sector Index Fund
JJC	iPath Dow Jones-UBS Copper Subindex Total Return ETN
JJG	iPath Dow Jones-UBS Grains Subindex Total Return ETN
JNK	SPDR Barclays Capital High Yield Bond ETF
JXI	iShares S&P Global Utilities Sector Index Fund
JYN	iPath JPY/USD Exchange Rate ETN
KBE	SPDR S&P Bank ETF
KBWB	PowerShares KBW Bank Portfolio
KIE	SPDR S&P Insurance ETF
KOL	Market Vectors Coal ETF
KRE	SPDR S&P Regional Banking ETF
KXI	iShares S&P Global Consumer Staples Sector Index Fund
LAG	SPDR Barclays Capital Aggregate Bond ETF
LQD	iShares iBoxx Investment Grade Corporate Bond Fund
LTPZ	PIMCO 15+ Year US TIPS Index Fund

Symbol	Name
LWC	SPDR Barclays Capital Long Term Corporate BondETF
MBB	iShares Barclays MBS Bond Fund
MBG	SPDR Barclays Capital Mortgage Backed Bond ETF
MCHI	iShares MSCI China Index Fund
MDY	SPDR S&P MidCap 400 ETF Trust
MGC	Vanguard Mega Cap 300 ETF
MGK	Vanguard Mega Cap 300 Growth ETF
MINT	PIMCO Enhanced Short Maturity Strategy Fund
MLPI	UBS E-TRACS Alerian MLP Infrastructure ETN
MLPN	Credit Suisse Cushing 30 MLP Index ETN
MOO	Market Vectors Agribusiness ETF
MUB	iShares S&P National Municipal Bond Fund
MXI	iShares S&P Global Materials Sector Index Fund
MYY	ProShares Short MidCap 400
NKY	MAXIS Nikkei 225 Index Fund ETF
OEF	iShares S&P 100 Index Fund
OIH	Market Vectors Oil Service ETF
OIL	iPath Goldman Sachs Crude Oil Total Return Index ETN
PALL	ETFS Physical Palladium Shares
PBJ	Powershares Dynamic Food & Beverage Portfolio
PCEF	PowerShares CEF Income Composite Portfolio
PCY	PowerShares Emerging Markets Sovereign Debt Portfolio
PDP	Powershares DWA Technical Leaders Portfolio
PEY	PowerShares High Yield Equity Dividend Achievers Portfolio
PFF	iShares S&P US Preferred Stock Index Fund
PFM	PowerShares Dividend Achievers Portfolio
PGF	PowerShares Financial Preferred Portfolio
PGX	PowerShares Preferred Portfolio
PHB	PowerShares Fundamental High Yield Corporate Bond Portfolio
PHO	PowerShares Water Resources Portfolio
PHYS	Sprott Physical Gold Trust
PID	PowerShares International Dividend Achievers Portfolio
PIE	PowerShares DWA Emerging Markets Technical Leaders Portfolio
PIN	PowerShares India Portfolio
PJP	Powershares Dynamic Pharmaceuticals Portfolio
PLW	PowerShares 1-30 Laddered Treasury Portfolio
PPH	Market Vectors Pharmaceutical ETF
PPLT	ETFS Platinum Trust
PRF	Powershares FTSE RAFI US 1000 Portfolio

Symbol	Name
PRFZ	PowerShares FTSE RAFI US 1500 Small-Mid Portfolio
PSLV	Sprott Physical Silver Trust
PSP	PowerShares Global Listed Private Equity Portfolio
PSQ	ProShares Short QQQ
PVI	PowerShares VRDO Tax Free Weekly Portfolio
PXH	PowerShares FTSE RAFI Emerging Markets Portfolio
PZA	PowerShares Insured National Municipal Bond Portfolio
QQQ	Powershares QQQ Trust Series 1
REM	iShares FTSE NAREIT Mortgage Plus Capped Index Fund
REMX	Market Vectors Rare Earth/Strategic Metals ETF
REZ	iShares FTSE NAREIT Residential Plus Capped Index Fund
RFG	Guggenheim S&P Midcap 400 Pure Growth ETF
RJA	ELEMENTS Linked to the Rogers International Commodity Index - Agri Tot Return
RJI	ELEMENTS Linked to the Rogers International Commodity Index - Total Return
RJN	ELEMENTS Linked to the Rogers International Commodity Index - Energy To Return
RJZ	ELEMENTS Linked to the Rogers International Commodity Index - Metals Tot Return
RPG	Guggenheim S&P 500 Pure Growth ETF
RSP	Guggenheim S&P 500 Equal Weight ETF
RSX	Market Vectors Russia ETF
RTH	Market Vectors Retail ETF
RWM	ProShares Short Russell2000
RWO	SPDR Dow Jones Global Real Estate ETF
RWR	SPDR Dow Jones REIT ETF
RWX	SPDR Dow Jones International Real Estate ETF
RYH	Guggenheim S&P 500 Equal Weight Healthcare ETF
SAGG	Direxion Daily Total Bond Market Bear 1x Shares
SCHA	Schwab US Small-Cap ETF
SCHB	Schwab US Broad Market ETF
SCHD	Schwab US Dividend Equity ETF
SCHE	Schwab Emerging Markets Equity ETF
SCHF	Schwab International Equity ETF
SCHG	Schwab U.S. Large-Cap Growth ETF
SCHH	Schwab U.S. REIT ETF
SCHM	Schwab U.S. Mid-Cap ETF
SCHO	Schwab Short-Term U.S. Treasury ETF
SCHP	Schwab U.S. TIPs ETF

Symbol	Name
SCHR	Schwab Intermediate-Term U.S. Treasury ETF
SCHV	Schwab U.S. Large-Cap Value ETF
SCHX	Schwab US Large-Cap ETF
SCHZ	Schwab U.S. Aggregate Bond ETF
SCPB	SPDR Barclays Capital Short Term Corporate Bond ETF
SCZ	iShares MSCI EAFE Small Cap Index Fund
SDY	SPDR S&P Dividend ETF
SEF	ProShares Short Financials
SGG	iPath Dow Jones-UBS Sugar Subindex Total Return ETN
SGOL	ETFS Gold Trust
SH	ProShares Short S&P500
SHM	SPDR Nuveen Barclays Capital Short Term Municipal Bond ETF
SHV	iShares Barclays Short Treasury Bond Fund
SHY	iShares Barclays 1-3 Year Treasury Bond Fund
SIL	Global X Silver Miners ETF
SIVR	ETFS Physical Silver Shares
SJB	ProShares Short High Yield
SJNK	SPDR Barclays Capital Short Term High Yield Bond ETF
SLV	iShares Silver Trust
SLX	Market Vectors Steel Index Fund
SMH	Market Vectors Semiconductor ETF
SOXX	iShares PHLX SOX Semiconductor Sector Index Fund
SPLV	PowerShares S&P 500 Low Volatility Portfolio
SPY	SPDR S&P 500 ETF Trust
SPYG	SPDR S&P 500 Growth ETF
SPYV	SPDR S&P 500 Value ETF
STIP	iShares Barclays 0-5 Year TIPS Bond Fund
STPP	iPath US Treasury Steepener ETN
STPZ	PIMCO 1-5 Year US TIPS Index Fund
SUB	iShares S&P Short Term National AMT-Free Municipal Bond Fund
SVXY	ProShares Short VIX Short-Term Futures ETF
TAN	Guggenheim Solar ETF
TBF	ProShares Short 20+ Year Treasury
TBX	ProShares Short 7-10 Treasury
TFI	SPDR Nuveen Barclays Capital Municipal Bond ETF
THD	iShares MSCI Thailand Index Fund
TIP	iShares Barclays TIPS Bond Fund
TLH	iShares Barclays 10-20 Year Treasury Bond Fund
TLT	iShares Barclays 20+ Year Treasury Bond Fund

Symbol	Name
TUR	iShares MSCI Turkey Index Fund
UDN	PowerShares DB US Dollar Index Bearish Fund
UGA	United States Gasoline Fund LP
UNG	United States Natural Gas Fund LP
URA	Global X Uranium ETF
USCI	United States Commodity Index Fund
USL	United States 12 Month Oil Fund LP
USO	United States Oil Fund LP
UUP	PowerShares DB US Dollar Index Bullish Fund
VAW	Vanguard Materials ETF
VB	Vanguard Small-Cap ETF
VBK	Vanguard Small-Cap Growth ETF
VBR	Vanguard Small-Cap Value ETF
VCIT	Vanguard Intermediate-Term Corporate Bond ETF
VCLT	Vanguard Long-Term Corporate Bond ETF
VCR	Vanguard Consumer Discretionary ETF
VCSH	Vanguard Short-Term Corporate Bond ETF
VDC	Vanguard Consumer Staples ETF
VDE	Vanguard Energy ETF
VEA	Vanguard MSCI EAFE ETF
VEU	Vanguard FTSE All-World ex-US ETF
VFH	Vanguard Financials ETF
VGK	Vanguard MSCI European ETF
VGT	Vanguard Information Technology ETF
VHT	Vanguard Health Care ETF
VIG	Vanguard Dividend Appreciation ETF
VIIX	VelocityShares VIX Short Term ETN
VIOO	Vanguard S&P Small-Cap 600 ETF
VIS	Vanguard Industrials ETF
VIXM	ProShares VIX Mid-Term Futures ETF
VIXY	ProShares VIX Short-Term Futures ETF
VMBS	Vanguard Mortgage-Backed Securities ETF
VNM	Market Vectors Vietnam ETF
VNQ	Vanguard REIT ETF
VO	Vanguard Mid-Cap ETF
VOE	Vanguard Mid-Cap Value Index Fund/Closed-end
VONE	Vanguard Russell 1000
VONG	Vanguard Russell 1000 Growth ETF
VONV	Vanguard Russell 1000 Value



Symbol	Name
VOO	Vanguard S&P 500 ETF
VOOG	Vanguard S&P 500 Growth ETF
VOOV	Vanguard S&P 500 Value ETF
VOT	Vanguard Mid-Cap Growth Index Fund/Closed-end
VOX	Vanguard Telecommunication Services ETF
VPL	Vanguard MSCI Pacific ETF
VPU	Vanguard Utilities ETF
VQT	Barclays ETN+ ETNs Linked to the S&P 500 Dynamic VEQTORTM Total Return Index
VSS	Vanguard FTSE All World ex-US Small-Cap ETF
VT	Vanguard Total World Stock Index Fund ETF
VTHR	Vanguard Russell 3000
VTI	Vanguard Total Stock Market ETF
VTV	Vanguard Value ETF
VTWG	Vanguard Russell 2000 Growth
VTWO	Vanguard Russell 2000
VTWV	Vanguard Russell 2000 Value
VUG	Vanguard Growth ETF
VV	Vanguard Large-Cap ETF
VWO	Vanguard MSCI Emerging Markets ETF
VXAA	ETRACS 1-Month S&P 500 VIX Futures ETN
VXEE	ETRACS 5-Month S&P 500 VIX Futures ETN
VXF	Vanguard Extended Market ETF
VXUS	Vanguard Total International Stock ETF
VXX	iPATH S&P 500 VIX Short-Term Futures ETN
VXZ	iPATH S&P 500 VIX Mid-Term Futures ETN
VYM	Vanguard High Dividend Yield ETF
VZZB	iPath Long Enhanced S&P 500 VIX Mid-Term Futures <sup>TM</sup> ETN II
WDTI	WisdomTree Managed Futures Strategy Fund
WIP	SPDR DB International Government Inflation-Protected Bond ETF
XBI	SPDR S&P Biotech ETF
XES	SPDR S&P Oil & Gas Equipment & Services ETF
XHB	SPDR S&P Homebuilders ETF
XIV	VelocityShares Daily Inverse VIX Short Term ETN
XLB	Materials Select Sector SPDR Fund
XLE	Energy Select Sector SPDR Fund
XLF	Financial Select Sector SPDR Fund
XLG	Guggenheim Russell Top 50 ETF
XLI	Industrial Select Sector SPDR Fund

<b>Symbol</b>	<b>Name</b>
XLK	Technology Select Sector SPDR Fund
XLP	Consumer Staples Select Sector SPDR Fund
XLU	Utilities Select Sector SPDR Fund
XLV	Health Care Select Sector SPDR Fund
XLY	Consumer Discretionary Select Sector SPDR Fund
XME	SPDR S&P Metals & Mining ETF
XOP	SPDR S&P Oil & Gas Exploration & Production ETF
XPH	SPDR S&P Pharmaceuticals ETF
XRT	SPDR S&P Retail ETF
XSD	SPDR S&P Semiconductor ETF
XXV	iPath Inverse S&P 500 VIX Short-Term Futures ETN
ZROZ	PIMCO 25+ Year Zero Coupon US Treasury Index Fund

## Appendix B – Data

Unless otherwise specified, the following data shall be collected and transmitted to the SEC in an agreed-upon format on a monthly basis, to be provided 30 calendar days following month end. Unless otherwise specified, the Primary Listing Exchanges shall be responsible for collecting and transmitting the data to the SEC. Data collected in connection with Sections II(E) – (G) below shall be transmitted to the SEC with a request for confidential treatment under the Freedom of Information Act, 5 U.S.C. 552, and the SEC’s rules and regulations thereunder.

### I. Summary Statistics

- A. Frequency with which NMS Stocks enter a Limit State. Such summary data shall be broken down as follows:
  1. Partition stocks by category
    - a. Tier 1 non-ETP issues > \$3.00
    - b. Tier 1 non-ETP issues  $\geq$  \$0.75 and  $\leq$  \$3.00
    - c. Tier 1 non-ETP issues < \$0.75
    - d. Tier 1 non-leveraged ETPs in each of above categories
    - e. Tier 1 leveraged ETPs in each of above categories
    - f. Tier 2 non-ETPs in each of above categories
    - g. Tier 2 non-leveraged ETPs in each of above categories
    - h. Tier 2 leveraged ETPs in each of above categories
  2. Partition by time of day
    - a. Opening (prior to 9:45 am ET)
    - b. Regular (between 9:45 am ET and 3:35 pm ET)
    - c. Closing (after 3:35 pm ET)
    - d. Within five minutes of a Trading Pause re-open or IPO open

3. Track reasons for entering a Limit State, such as:
  - a. Liquidity gap –price reverts from a Limit State Quotation and returns to trading within the Price Bands
  - b. Broken trades
  - c. Primary Listing Exchange manually declares a Trading Pause pursuant to Section (VII)(2) of the Plan
  - d. Other

B. Determine (1), (2) and (3) for when a Trading Pause has been declared for an NMS Stock pursuant to the Plan.

II. **Raw Data** (all Participants, except A-E, which are for the Primary Listing Exchanges only)

A. Record of every Straddle State.

1. Ticker, date, time entered, time exited, flag for ending with Limit State, flag for ending with manual override.
2. Pipe delimited with field names as first record.

B. Record of every Price Band

1. Ticker, date, time at beginning of Price Band, Upper Price Band, Lower Price Band
2. Pipe delimited with field names as first record

C. Record of every Limit State

1. Ticker, date, time entered, time exited, flag for halt
2. Pipe delimited with field names as first record

D. Record of every Trading Pause or halt

1. Ticker, date, time entered, time exited, type of halt (i.e., regulatory halt, non-regulatory halt, Trading Pause pursuant to the Plan, other)
2. Pipe delimited with field names as first record

E. Data set or orders entered into reopening auctions during halts or Trading Pauses

1. Arrivals, Changes, Cancels, # shares, limit/market, side, Limit State side

2. Pipe delimited with field name as first record

F. Data set of order events received during Limit States

G. 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 NBBO mid-point

4. Count arriving, volume arriving and shares executing in limit sell orders  $\leq$  NBBO mid-point (non-marketable)

5. Count arriving, volume arriving and shares executing in limit buy orders 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  $\text{NBBO} + \$0.05$

8. Count and volume arriving of limit buy orders priced at or below  $\text{NBBO} - \$0.05$

9. Count and volume of (iii-viii) for cancels

10. Include: ticker, date, time at start, time of Limit State, data item fields, last sale prior to 1-minute period (null if no trades today), range during 15-second period, last trade during 15-second period

- III. **At least two months prior to the end of the Pilot Period, all Participants shall provide to the SEC assessments relating to impact of the Plan and calibration of the Percentage Parameters as follows:**
- A. Assess the statistical and economic impact on limit order book of approaching Price Bands.
  - B. Assess the statistical and economic impact of the Price Bands on erroneous trades.
  - C. Assess the statistical and economic impact of the appropriateness of the Percentage Parameters used for the Price Bands.
  - D. Assess whether the Limit State is the appropriate length to allow for liquidity replenishment when a Limit State is reached because of a temporary liquidity gap.
  - E. Evaluate concerns from the options markets regarding the statistical and economic impact of Limit States on liquidity and market quality in the options markets. (Participants that operate options exchange should also prepare such assessment reports.)
  - F. Assess whether the process for entering a Limit State should be adjusted and whether Straddle States are problematic.
  - G. Assess whether the process for exiting a Limit State should be adjusted.
  - H. Assess whether the Trading Pauses are too long or short and whether the reopening procedures should be adjusted.