



December 24, 2014

**By Federal Express**

Mr. Brent J. Fields  
Secretary  
U.S. Securities and Exchange Commission  
100 F Street, N.E.  
Washington, DC 20549-1090

Re: Eighth Amendment of the Plan to Address Extraordinary Market Volatility Pursuant to Rule 608 of Regulation NMS under the Securities Exchange Act of 1934 (the "Plan") – File No. 4-631

Dear Mr. Fields:

The Financial Industry Regulatory Authority, Inc. ("FINRA") on behalf of itself and the following parties to the Plan: BATS Exchange, Inc., BATS Y-Exchange, Inc., Chicago Board Options Exchange, Incorporated, Chicago Stock Exchange, Inc., EDGA Exchange, Inc., EDGX Exchange, Inc., NASDAQ OMX BX, Inc., NASDAQ OMX PHLX LLC, The Nasdaq Stock Market LLC, and National Stock Exchange, Inc., New York Stock Exchange LLC, NYSE Arca, Inc., and NYSE MKT LLC (collectively with FINRA, the "Participants"), respectfully files the amended Plan with the Securities and Exchange Commission (the "Commission") for approval pursuant to Rule 608 of Regulation NMS ("Rule 608") under the Securities Exchange Act of 1934 ("Exchange Act").<sup>1</sup> This Amendment No. 8 replaces and supersedes the letter dated September 22, 2014 in its entirety.<sup>2</sup>

The Participants initially filed the Plan with the Commission on April 5, 2011, which was published for notice and comment.<sup>3</sup> On May 24, 2012, the Participants filed an amendment to the Plan, which the Commission approved on May 31, 2012.<sup>4</sup> The Participants filed a

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<sup>1</sup> 17 CFR 242.608.

<sup>2</sup> See Letter from Christopher B. Stone, FINRA, to Brent J. Fields, Secretary, SEC, dated September 22, 2014 (proposing an eighth amendment to the Plan).

<sup>3</sup> See Securities Exchange Act Release No. 64547 (May 25, 2011), 76 FR 31647 (June 1, 2011) (File No. 4-631).

<sup>4</sup> See Securities Exchange Act Release No. 67091 (May 31, 2012), 77 FR 33498 (June 6, 2012) (File No. 4-631).

second amendment to the Plan, which was immediately effective on January 23, 2013.<sup>5</sup> On February 19, 2013, the Participants filed a third amendment to the Plan, which the Commission approved on April 3, 2013.<sup>6</sup> The Participants filed a fourth amendment to the Plan, which was immediately effective on July 18, 2013.<sup>7</sup> On July 18, 2013, the Participants filed a fifth amendment to the Plan, which the Commission approved on September 26, 2013.<sup>8</sup> The Participants filed a sixth amendment to the Plan, which was immediately effective on December 3, 2013.<sup>9</sup> On February 24, 2014, the Participants filed a seventh amendment to the Plan, which the Commission approved on April 3, 2014.<sup>10</sup>

As set forth below, the Participants are proposing to amend the Plan to extend the pilot period of the Plan to October 23, 2015. The Participants also commit to submitting a supplemental joint assessment on the operation of the Plan by May 29, 2015. This amendment to the Plan also replaces and supersedes the previously proposed eighth amendment in its entirety.<sup>11</sup>

#### Requirements Pursuant to Rule 608(a)

##### A. Statement of Purpose and Summary of the Plan Amendment

The Participants filed the Plan on April 5, 2011, in order to create a market-wide limit up-limit down mechanism that is intended to address extraordinary market volatility in NMS Stocks, as defined in Rule 600(b)(47) of Regulation NMS under the Exchange Act. The Plan sets forth procedures that provide for market-wide limit up-limit down requirements that would prevent trades in individual NMS Stocks from occurring outside of the specified price bands. These limit up-limit down requirements would be coupled with Trading Pauses, as defined in Section I(X) of the Plan, to accommodate more fundamental price moves. In particular, the Participants adopted this Plan to address the type of sudden price movements that the market experienced on the afternoon of May 6, 2010.

As set forth in more detail in the Plan, all trading centers in NMS Stocks, including both those operated by Participants and those operated by members of Participants, shall establish,

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<sup>5</sup> See Securities Exchange Act Release No. 68953 (February 20, 2013), 78 FR 13113 (February 26, 2013) (File No. 4-631).

<sup>6</sup> See Securities Exchange Act Release No. 69287 (April 3, 2013), 78 FR 21483 (April 10, 2013) (File No. 4-631).

<sup>7</sup> See Securities Exchange Act Release No. 70273 (August 27, 2013), 78 FR 54321 (Sept. 3, 2013) (File No. 4-631).

<sup>8</sup> See Securities Exchange Act Release No. 70530 (Sept. 26, 2013), 78 FR 60937 (Oct. 2, 2013) (File No. 4-631).

<sup>9</sup> See Securities Exchange Act Release No. 71247 (Jan. 7, 2014), 79 FR 2204 (Jan. 13, 2014) (File No. 4-631).

<sup>10</sup> See Securities Exchange Act Release No. 71851 (April 3, 2014), 79 FR 19687 (April 9, 2014) (File No. 4-631).

<sup>11</sup> See *supra* note 2.

maintain, and enforce written policies and procedures that are reasonably designed to comply with the limit up-limit down requirements specified in the Plan. More specifically, the single plan processor responsible for consolidation of information for an NMS Stock pursuant to Rule 603(b) of Regulation NMS under the Exchange Act will be responsible for calculating and disseminating a lower price band and upper price band, as provided for in Section V of the Plan. Section VI of the Plan sets forth the limit up-limit down requirements of the Plan, and in particular, that 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, consistent with the Plan.

The Plan was initially approved for a one-year pilot, which began on April 8, 2013.<sup>12</sup> Accordingly, the pilot period was scheduled to end on April 8, 2014. As initially contemplated, the Plan would have been fully implemented across all NMS Stocks within six months of initial Plan operations, which meant there would have been full implementation of the Plan for six months before the end of the pilot period. However, pursuant to the Fourth Amendment to the Plan,<sup>13</sup> the Participants amended Section VIII.B of the Plan, which modified the implementation schedule of Phase II of the Plan to extend the time period when the Plan would fully apply to all NMS Stocks. Accordingly, the Plan was not implemented across all NMS Stocks until December 8, 2013. Pursuant to the Sixth Amendment to the Plan,<sup>14</sup> which further modified the implementation schedule of Phase II of the Plan, the date for full implementation of the Plan was moved to February 24, 2014.

In addition, pursuant to the Seventh Amendment to the Plan,<sup>15</sup> the date for the end of the pilot was extended from April 8, 2014 to February 20, 2015, and submission of assessments of the Plan operations was accordingly extended to September 30, 2014. Without such extension, the Plan would have been in effect for the full trading day for less than two months before the end of the pilot period. The Participants believed that this short period of full implementation of the Plan would have provided insufficient time for both the Participants and the Commission to assess the impact of the Plan and determine whether the Plan should be modified prior to approval on a permanent basis.

On September 29, 2014, the Participants submitted a Participant Impact Assessment,<sup>16</sup> which provided the Commission with the Participants' initial observations in each area required to be addressed under Appendix B to the Plan. These areas are intended to capture the key measures necessary to assess the impact of the Plan and to support recommendations relating to the calibration of the Percentage Parameters to help ensure that the stated

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<sup>12</sup> See Sections VIII.A and C of the Plan.

<sup>13</sup> See *supra* footnote 7.

<sup>14</sup> See *supra* footnote 9.

<sup>15</sup> See *supra* footnote 10.

<sup>16</sup> See Joint SROs letter to Brent J. Fields, Secretary, SEC, dated September 29, 2014 ("Participants Impact Assessment").

objectives of the Plan are achieved – particularly: liquidity when approaching price bands; clearly erroneous trades; the appropriateness of the percentage parameters; the attributes of limit states; the impact of limit states on the options markets; whether process adjustments are needed when entering/exiting a limit state; and the length of trading pauses.

While the Participants have submitted this Participant Impact Assessment to the Commission, the Participants believe that a joint supplemental assessment is appropriate. The supplemental joint assessment also would evaluate the impact of the Plan using the measures set forth in Appendix B, but would be an extensive assessment based upon a data-driven analysis across trading centers using methodology agreed upon by the Participants, which would allow the Participants to make unified recommendations, where appropriate, that would be of greater value to the Commission and the public than separate submissions. The Participants intend to submit the supplemental joint assessment to the Commission by May 29, 2015 and make the supplemental joint assessment publicly available.

The Plan Operating Committee also commits to meeting regularly with Commission staff during this extension period to report on interim findings and recommendations on the supplemental joint assessment, as appropriate.

Because the Participants intend to engage a third-party consultant to assist in conducting the cross-market analysis and preparing the joint supplemental assessment, additional time is required. The process of selecting, engaging, meeting with and providing required data to the ultimate third-party consultant will undoubtedly be time consuming, but beneficial in that it would facilitate the development of a joint assessment that, unlike individual Participant submissions, would not need to be compared and reconciled.

The Participants propose to amend Section VIII.C of the Plan to extend the pilot end date through October 23, 2015. The Participants believe that extension of the pilot period is necessary and appropriate in the interest of the public, including because additional time will:

- Provide a reasonable period of time for the public to comment on the supplemental joint assessment and recommendations;
- Provide Participants time to use the information collected during the operation of the Plan to perform further analysis and recommend amendments to the Plan; and
- Allow the Commission adequate time to review the supplemental joint assessment and recommendations provided by the Participants, and determine if any modifications to the Plan are appropriate.

The Participants believe that the proposed amendment is consistent with Section 11A of the Securities Exchange Act of 1934 and Rule 608, of Regulation NMS thereunder,<sup>17</sup> which authorizes the Participants to act jointly in preparing, filing and implementing national market system plans. The Participants further believe that the proposed amendment and extension of the pilot period is consistent with and further supports the intent of the approval order for the Plan, in which the Commission stated that having a pilot period would allow

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<sup>17</sup> 17 CFR 242.608

“the public, the Participants, and the Commission to assess the operation of the Plan and whether the Plan should be modified prior to approval on a permanent basis.”<sup>18</sup> In this regard, the Participants believe that such extension is appropriate and in the public interest as it provides the public with additional information and time to consider the impact of the proposed changes and potential benefits.

In addition, the Participants believe that the supplemental joint assessment, which would be a cross-market analysis using methodology agreed upon by the Participants, would be of greater value to the Commission and the public, is consistent with the purposes of Rule 608, which provides for joint action by the Participants with regard to NMS Plans. Finally, the Participants believe that the proposed amendment, which provides for additional time to observe the operation of the Pilot, as well as to prepare and submit a joint supplemental assessment, will facilitate the development of better recommendations (and will allow the Participants to make unified recommendations, where appropriate) regarding the operation to the existing NMS Plan to Address Extraordinary Market Volatility.

The Participants note that the amended version of the Plan also includes the revised Appendix A – Schedule 1, which was updated for trading beginning July 1, 2014. As set forth in Appendix A – Percentage Parameters, the Primary Listing Exchange updates Schedule 1 to Appendix A semi-annually based on the fiscal year and such updates do not require a Plan amendment.

#### B. Governing or Constituent Documents

The governing documents of the Processor, as defined in Section I(P) of the Plan, will not be affected by the Plan, but once the Plan is implemented, the Processor’s obligations will change, as set forth in detail in the Plan.

#### C. Implementation of Plan

The initial date of the Plan operations was April 8, 2013.

#### D. Development and Implementation Phases

The Plan was initially implemented as a one-year pilot program in two Phases, consistent with Section VIII of the Plan: Phase I of Plan implementation began on April 8, 2013 and was completed on May 3, 2013. Implementation of Phase II of the Plan began on August 5, 2013 and was completed on February 24, 2014. Pursuant to this proposed amendment, the Participants propose to extend the pilot period so that it is set to end on October 23, 2015.

#### E. Analysis of Impact on Competition

The proposed Plan does not impose any burden on competition that is not necessary or appropriate in furtherance of the purposes of the Exchange Act. The Participants do not

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<sup>18</sup> See *supra* note 4, 77 FR 33498, 33508.

believe that the proposed Plan introduces terms that are unreasonably discriminatory for the purposes of Section 11A(c)(1)(D) of the Exchange Act.

F. Written Understanding or Agreements relating to Interpretation of, or Participation in, Plan

The Participants have no written understandings or agreements relating to interpretation of the Plan. Section II(C) of the Plan sets forth how any entity registered as a national securities exchange or national securities association may become a Participant.

G. Approval of Amendment of the Plan

Each of the Plan's Participants has executed a written amended Plan.

H. Terms and Conditions of Access

Section II(C) of the Plan provides 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, as defined in Section I(F) of the Plan; (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.

I. Method of Determination and Imposition, and Amount of, Fees and Charges

Not applicable.

J. Method and Frequency of Processor Evaluation

Not applicable.

K. Dispute Resolution

Section III(C) of the Plan provides that each Participant shall designate an individual to represent the Participant as a member of an Operating Committee. No later than the initial date of the Plan, the Operating Committee shall designate one member of the Operating Committee to act as the Chair of the Operating Committee. 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 Commission as a request for an amendment to the Plan initiated by the Commission under Rule 608.

On September 18, 2014, the Operating Committee, duly constituted and chaired by Mr. Christopher B. Stone of FINRA, met and voted unanimously to amend the Plan as set forth herein in accordance with Section III(C) of the Plan. The Plan Advisory Committee was consulted in connection with the Eighth Amendment and was in favor.

Mr. Brent J. Fields  
December 24, 2014  
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Respectfully submitted,



Christopher B. Stone

Enclosure

cc: The Hon. Mary Jo White, Chair  
The Hon. Luis A. Aguilar, Commissioner  
The Hon. Daniel M. Gallagher, Jr., Commissioner  
The Hon. Kara M. Stein, Commissioner  
The Hon. Michael S. Piwowar, Commissioner  
Mr. Stephen Luparello, Director of Trading and Markets  
Mr. David S. Shillman, Associate Director of Trading and Markets

**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**

As amended by SEC Approval Order: [Rel. No. 34-74323](#)  
(Amendment 8)  
Effective February 19, 2015

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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; (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.

(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 (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 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 Ten Minutes of the End of Regular Trading Hours

(1) If a Trading Pause for an NMS Stock is declared in 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. Implementation

The initial date of Plan operations shall be April 8, 2013.

(A) Phase I

(1) On the initial date of Plan operations, Phase I of Plan implementation shall begin in select symbols from the Tier 1 NMS Stocks identified in Appendix A of the Plan.

(2) Three 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 to all 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 and therefore trading shall not enter a Limit State less than 30 minutes before the end of Regular Trading Hours.

(B) Phase II – Full Implementation

Phase II.A.: Eight 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 3:45 p.m. ET each trading day, or earlier in the case of an early scheduled close.

Phase II.B.: By February 24, 2014, 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.

(C) Pilot

The Plan shall be implemented on a pilot basis set to end on October 23, 2015.

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 December 2014 by each of the parties hereto.

BATS EXCHANGE, INC.

BATS Y-EXCHANGE, INC.

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

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

CHICAGO BOARD OPTIONS  
EXCHANGE, INCORPORATED

CHICAGO STOCK EXCHANGE, INC.

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

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

EDGA EXCHANGE, INC.

EDGX EXCHANGE, INC.

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

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

FINANCIAL INDUSTRY  
REGULATORY AUTHORITY, INC.

NASDAQ OMX BX, INC.

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

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

NASDAQ OMX PHLX LLC

THE NASDAQ STOCK MARKET LLC

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

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

NATIONAL STOCK EXCHANGE, INC.

NEW YORK STOCK EXCHANGE LLC

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

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

NYSE MKT LLC

NYSE ARCA, INC.

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

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. 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 July 1, 2014)

Ticker	Name	Primary Exchange
AAXJ	iShares MSCI All Country Asia ex Japan ETF	NASDAQ GM
ACWI	iShares MSCI ACWI ETF	NASDAQ GM
ACWV	iShares MSCI All Country World Minimum Volatility ETF	NYSE Arca
ACWX	iShares MSCI ACWI ex US ETF	NASDAQ GM
AGG	iShares Core Total US Bond Market ETF	NYSE Arca
AGZ	iShares Agency Bond ETF	NYSE Arca
ALD	WisdomTree Asia Local Debt Fund	NYSE Arca
AMJ	JPMorgan Alerian MLP Index ETN	NYSE Arca
AMPLP	Alerian MLP ETF	NYSE Arca
ASHR	db X-trackers Harvest CSI 300 China A-Shares Fund	NYSE Arca
BAB	PowerShares Build America Bond Portfolio	NYSE Arca
BBH	Market Vectors Biotech ETF	NYSE Arca
BBRC	EGShares Beyond BRICs ETF	NYSE Arca
BIL	SPDR Barclays 1-3 Month T-Bill	NYSE Arca
BIV	Vanguard Intermediate-Term Bond ETF	NYSE Arca
BKF	iShares MSCI BRIC ETF	NYSE Arca
BKLN	PowerShares Senior Loan Portfolio	NYSE Arca
BLV	Vanguard Long-Term Bond ETF	NYSE Arca
BND	Vanguard Total Bond Market ETF	NYSE Arca
BNDX	Vanguard Total International Bond ETF	NASDAQ GM
BOND	Pimco Total Return ETF	NYSE Arca
BRF	Market Vectors Brazil Small-Cap ETF	NYSE Arca
BSCE	Guggenheim BulletShares 2014 Corporate Bond ETF	NYSE Arca
BSCF	Guggenheim BulletShares 2015 Corporate Bond ETF	NYSE Arca
BSCG	Guggenheim BulletShares 2016 Corporate Bond ETF	NYSE Arca
BSCH	Guggenheim BulletShares 2017 Corporate Bond ETF	NYSE Arca
BSCI	Guggenheim BulletShares 2018 Corporate Bond ETF	NYSE Arca
BSJE	Guggenheim BulletShares 2014 High Yield Corporate Bond ETF	NYSE Arca
BSJF	Guggenheim BulletShares 2015 High Yield Corporate Bond ETF	NYSE Arca
BSJG	Guggenheim BulletShares 2016 High Yield Corporate Bond ETF	NYSE Arca
BSJH	Guggenheim BulletShares 2017 High Yield Corporate Bond ETF	NYSE Arca
BSV	Vanguard Short-Term Bond ETF	NYSE Arca
BWX	SPDR Barclays International Treasury Bond ETF	NYSE Arca
BZF	WisdomTree Brazilian Real Strategy Fund	NYSE Arca
CIU	iShares Intermediate Credit Bond ETF	NYSE Arca
CLY	iShares 10+ Year Credit Bond ETF	NYSE Arca

<b>Ticker</b>	<b>Name</b>	<b>Primary Exchange</b>
CORN	Teucrium Corn Fund	NYSE Arca
CRED	iShares Core U.S. Credit Bond ETF	NYSE Arca
CSD	Guggenheim Spin-Off ETF	NYSE Arca
CSJ	iShares 1-3 Year Credit Bond ETF	NYSE Arca
CSM	ProShares Large Cap Core Plus	NYSE Arca
CVY	Guggenheim Multi-Asset Income ETF	NYSE Arca
CWB	SPDR Barclays Convertible Securities ETF	NYSE Arca
CWI	SPDR MSCI ACWI ex-US ETF	NYSE Arca
DBA	PowerShares DB Agriculture Fund	NYSE Arca
DBB	PowerShares DB Base Metals Fund	NYSE Arca
DBC	PowerShares DB Commodity Index Tracking Fund	NYSE Arca
DBE	PowerShares DB Energy Fund	NYSE Arca
DBEF	db X-trackers MSCI EAFE Hedged Equity Fund	NYSE Arca
DBJP	db X-trackers MSCI Japan Hedged Equity Fund	NYSE Arca
DBO	PowerShares DB Oil Fund	NYSE Arca
DBV	PowerShares DB G10 Currency Harvest Fund	NYSE Arca
DEM	WisdomTree Emerging Markets Equity Income Fund	NYSE Arca
DES	WisdomTree SmallCap Dividend Fund	NYSE Arca
DFE	WisdomTree Europe SmallCap Dividend Fund	NYSE Arca
DGL	PowerShares DB Gold Fund	NYSE Arca
DGS	WisdomTree Emerging Markets SmallCap Dividend Fund	NYSE Arca
DGZ	PowerShares DB Gold Short ETN	NYSE Arca
DHS	WisdomTree Equity Income Fund	NYSE Arca
DIA	SPDR Dow Jones Industrial Average ETF Trust	NYSE Arca
DJP	iPath Dow Jones-UBS Commodity Index Total Return ETN	NYSE Arca
DLN	WisdomTree LargeCap Dividend Fund	NYSE Arca
DLS	WisdomTree International SmallCap Dividend Fund	NYSE Arca
DOG	ProShares Short Dow30	NYSE Arca
DON	WisdomTree MidCap Dividend Fund	NYSE Arca
DSUM	PowerShares Chinese Yuan Dim Sum Bond Portfolio	NYSE Arca
DTN	WisdomTree Dividend Ex-Financials Fund	NYSE Arca
DTUL	iPath US Treasury 2-year Bull ETN	NYSE Arca
DVY	iShares Select Dividend ETF	NYSE Arca
DVYE	iShares Emerging Markets Dividend ETF	NYSE Arca
DWAS	PowerShares DWA SmallCap Momentum Portfolio	NYSE Arca
DWX	SPDR S&P International Dividend ETF	NYSE Arca
DXJ	WisdomTree Japan Hedged Equity Fund	NYSE Arca
ECH	iShares MSCI Chile Capped ETF	NYSE Arca
ECON	EGShares Emerging Markets Consumer ETF	NYSE Arca

<b>Ticker</b>	<b>Name</b>	<b>Primary Exchange</b>
EDIV	SPDR S&P Emerging Markets Dividend ETF	NYSE Arca
EDV	Vanguard Extended Duration Treasury ETF	NYSE Arca
EEM	iShares MSCI Emerging Markets ETF	NYSE Arca
EEMV	iShares MSCI Emerging Markets Minimum Volatility ETF/Dup	NYSE Arca
EES	WisdomTree SmallCap Earnings Fund	NYSE Arca
EFA	iShares MSCI EAFE ETF	NYSE Arca
EFAV	iShares MSCI EAFE Minimum Volatility ETF	NYSE Arca
EFG	iShares MSCI EAFE Growth ETF	NYSE Arca
EFV	iShares MSCI EAFE Value ETF	NYSE Arca
EFZ	ProShares Short MSCI EAFE	NYSE Arca
EIDO	iShares MSCI Indonesia ETF	NYSE Arca
EIRL	iShares MSCI Ireland Capped ETF	NYSE Arca
EIS	iShares MSCI Israel Capped ETF	NYSE Arca
ELD	WisdomTree Emerging Markets Local Debt Fund	NYSE Arca
EMB	iShares JP Morgan USD Emerging Markets Bond ETF	NYSE Arca
EMLC	Market Vectors Emerging Markets Local Currency Bond ETF	NYSE Arca
EMLP	First Trust North American Energy Infrastructure Fund	NYSE Arca
EPHE	iShares MSCI Philippines ETF	NYSE Arca
EPI	WisdomTree India Earnings Fund	NYSE Arca
EPOL	iShares MSCI Poland Capped ETF	NYSE Arca
EPP	iShares MSCI Pacific ex Japan ETF	NYSE Arca
EPU	iShares MSCI All Peru Capped ETF	NYSE Arca
ERUS	iShares MSCI Russia Capped ETF	NYSE Arca
EUFN	iShares MSCI Europe Financials ETF	NASDAQ GM
EUM	ProShares Short MSCI Emerging Markets	NYSE Arca
EWA	iShares MSCI Australia ETF	NYSE Arca
EWC	iShares MSCI Canada ETF	NYSE Arca
EWD	iShares MSCI Sweden ETF	NYSE Arca
EWG	iShares MSCI Germany ETF	NYSE Arca
EWH	iShares MSCI Hong Kong ETF	NYSE Arca
EWI	iShares MSCI Italy Capped ETF	NYSE Arca
EWJ	iShares MSCI Japan ETF	NYSE Arca
EWL	iShares MSCI Switzerland Capped ETF	NYSE Arca
EWM	iShares MSCI Malaysia ETF	NYSE Arca
EWN	iShares MSCI Netherlands ETF	NYSE Arca
EWO	iShares MSCI Austria Capped ETF	NYSE Arca
EWP	iShares MSCI Spain Capped ETF	NYSE Arca
EWQ	iShares MSCI France ETF	NYSE Arca
EWS	iShares MSCI Singapore ETF	NYSE Arca

<b>Ticker</b>	<b>Name</b>	<b>Primary Exchange</b>
EWT	iShares MSCI Taiwan ETF	NYSE Arca
EWU	iShares MSCI United Kingdom ETF	NYSE Arca
EWW	iShares MSCI Mexico Capped ETF	NYSE Arca
EWX	SPDR S&P Emerging Markets SmallCap ETF	NYSE Arca
EWY	iShares MSCI South Korea Capped ETF	NYSE Arca
EWZ	iShares MSCI Brazil Capped ETF	NYSE Arca
EXI	iShares Global Industrials ETF	NYSE Arca
EZA	iShares MSCI South Africa ETF	NYSE Arca
EZM	WisdomTree MidCap Earnings Fund	NYSE Arca
EZU	iShares MSCI EMU ETF	NYSE Arca
FBT	First Trust NYSE Arca Biotechnology Index Fund	NYSE Arca
FCG	First Trust ISE-Revere Natural Gas Index Fund	NYSE Arca
FDL	First Trust Morningstar Dividend Leaders Index	NYSE Arca
FDN	First Trust Dow Jones Internet Index Fund	NYSE Arca
FEM	First Trust Emerging Markets AlphaDEX Fund	NYSE Arca
FEP	First Trust Europe AlphaDEX Fund	NYSE Arca
FEU	SPDR STOXX Europe 50 ETF	NYSE Arca
FEX	First Trust Large Cap Core AlphaDEX Fund	NYSE Arca
FEZ	SPDR EURO STOXX 50 ETF	NYSE Arca
FGD	First Trust DJ Global Select Dividend Index Fund	NYSE Arca
FHLC	Fidelity MSCI Health Care Index ETF	NYSE Arca
FJP	First Trust Japan AlphaDEX Fund	NYSE Arca
FLOT	iShares Floating Rate Bond ETF	NYSE Arca
FM	iShares MSCI Frontier 100 ETF	NYSE Arca
FNX	First Trust Mid Cap Core AlphaDEX Fund	NYSE Arca
FPX	First Trust US IPO Index Fund	NYSE Arca
FRI	First Trust S&P REIT Index Fund	NYSE Arca
FTA	First Trust Large Cap Value AlphaDEX Fund	NYSE Arca
FTEC	Fidelity MSCI Information Technology Index ETF	NYSE Arca
FTGC	First Trust Global Tactical Commodity Strategy Fund	NASDAQ GM
FTSL	First Trust Senior Loan ETF	NASDAQ GM
FV	First Trust Dorsey Wright Focus 5 ETF	NASDAQ GM
FVD	First Trust Value Line Dividend Index Fund	NYSE Arca
FXA	CurrencyShares Australian Dollar Trust	NYSE Arca
FXB	CurrencyShares British Pound Sterling Trust	NYSE Arca
FXC	CurrencyShares Canadian Dollar Trust	NYSE Arca
FXD	First Trust Consumer Discretionary AlphaDEX Fund	NYSE Arca
FXE	CurrencyShares Euro Trust	NYSE Arca
FXF	CurrencyShares Swiss Franc Trust	NYSE Arca

<b>Ticker</b>	<b>Name</b>	<b>Primary Exchange</b>
FXG	First Trust Consumer Staples AlphaDEX Fund	NYSE Arca
FXH	First Trust Health Care AlphaDEX Fund	NYSE Arca
FXI	iShares China Large-Cap ETF	NYSE Arca
FXL	First Trust Technology AlphaDEX Fund	NYSE Arca
FXN	First Trust Energy AlphaDEX Fund	NYSE Arca
FXO	First Trust Financial AlphaDEX Fund	NYSE Arca
FXR	First Trust Industrials/Producer Durables AlphaDEX Fund	NYSE Arca
FXU	First Trust Utilities AlphaDEX Fund	NYSE Arca
FXY	CurrencyShares Japanese Yen Trust	NYSE Arca
FXZ	First Trust Materials AlphaDEX Fund	NYSE Arca
FYX	First Trust Small Cap Core AlphaDEX Fund	NYSE Arca
GDX	Market Vectors Gold Miners ETF	NYSE Arca
GDXJ	Market Vectors Junior Gold Miners ETF	NYSE Arca
GLD	SPDR Gold Shares	NYSE Arca
GLTR	ETFS Physical Precious Metal Basket Shares	NYSE Arca
GMF	SPDR S&P Emerging Asia Pacific ETF	NYSE Arca
GNR	SPDR S&P Global Natural Resources ETF	NYSE Arca
GREK	Global X FTSE Greece 20 ETF	NYSE Arca
GSG	iShares S&P GSCI Commodity Indexed Trust	NYSE Arca
GSY	Guggenheim Enhanced Short Duration ETF	NYSE Arca
GUNR	FlexShares Global Upstream Natural Resources Index Fund	NYSE Arca
GURU	Global X Guru Index ETF	NYSE Arca
GVI	iShares Intermediate Government/Credit Bond ETF	NYSE Arca
GWL	SPDR S&P World ex-US ETF	NYSE Arca
GWX	SPDR S&P International Small Cap ETF	NYSE Arca
GXC	SPDR S&P China ETF	NYSE Arca
GXG	Global X FTSE Colombia 20 ETF	NYSE Arca
HAO	Guggenheim China Small Cap ETF	NYSE Arca
HDGE	AdvisorShares Ranger Equity Bear ETF	NYSE Arca
HDV	iShares High Dividend ETF	NYSE Arca
HECO	Huntington EcoLogical Strategy ETF	NYSE Arca
HEDJ	WisdomTree Europe Hedged Equity Fund	NYSE Arca
HUSE	Huntington US Equity Rotation Strategy ETF	NYSE Arca
HYD	Market Vectors High Yield Municipal Index ETF	NYSE Arca
HYEM	Market Vectors Emerging High Yield Bond ETF	NYSE Arca
HYG	iShares iBoxx \$ High Yield Corporate Bond ETF	NYSE Arca
HYLD	Peritus High Yield ETF	NYSE Arca
HYMB	SPDR Nuveen S&P High Yield Municipal Bond ETF	NYSE Arca
HYS	PIMCO 0-5 Year High Yield Corporate Bond Index Exchange-Traded	NYSE Arca

<b>Ticker</b>	<b>Name</b>	<b>Primary Exchange</b>
	Fund	
IAI	iShares U.S. Broker-Dealers ETF	NYSE Arca
IAT	iShares US Regional Banks ETF	NYSE Arca
IAU	iShares Gold Trust	NYSE Arca
IBB	iShares Nasdaq Biotechnology ETF	NASDAQ GM
IBND	SPDR Barclays International Corporate Bond ETF	NYSE Arca
ICF	iShares Cohen & Steers REIT ETF	NYSE Arca
IDU	iShares US Utilities ETF	NYSE Arca
IDV	iShares International Select Dividend ETF	NYSE Arca
IDX	Market Vectors Indonesia Index ETF	NYSE Arca
IEF	iShares 7-10 Year Treasury Bond ETF	NYSE Arca
IEFA	iShares Core MSCI EAFE ETF	NYSE Arca
IEI	iShares 3-7 Year Treasury Bond ETF	NYSE Arca
IEMG	iShares Core MSCI Emerging Markets ETF	NYSE Arca
IEO	iShares U.S. Oil & Gas Exploration & Production ETF	NYSE Arca
IEV	iShares Europe ETF	NYSE Arca
IEZ	iShares U.S. Oil Equipment & Services ETF	NYSE Arca
IFGL	iShares International Developed Real Estate ETF	NASDAQ GM
IGE	iShares North American Natural Resources ETF	NYSE Arca
IGF	iShares Global Infrastructure ETF	NYSE Arca
IGM	iShares North American Tech ETF	NYSE Arca
IGN	iShares North American Tech-Multimedia Networking ETF	NYSE Arca
IGOV	iShares International Treasury Bond ETF	NASDAQ GM
IGV	iShares North American Tech-Software ETF	NYSE Arca
IHE	iShares US Pharmaceuticals ETF	NYSE Arca
IHF	iShares U.S. Healthcare Providers ETF	NYSE Arca
IHI	iShares U.S. Medical Devices ETF	NYSE Arca
IJH	iShares Core S&P Mid-Cap ETF	NYSE Arca
IJJ	iShares S&P Mid-Cap 400 Value ETF	NYSE Arca
IJK	iShares S&P Mid-Cap 400 Growth ETF	NYSE Arca
IJR	iShares Core S&P Small-Cap ETF	NYSE Arca
IJS	iShares S&P Small-Cap 600 Value ETF	NYSE Arca
IJT	iShares S&P Small-Cap 600 Growth ETF	NYSE Arca
ILF	iShares Latin America 40 ETF	NYSE Arca
IMLP	iPath S&P MLP ETN	NYSE Arca
INDA	iShares MSCI India ETF	BATS
INDY	iShares India 50 ETF	NASDAQ GM
INP	iPath MSCI India Index ETN	NYSE Arca
IOO	iShares Global 100 ETF	NYSE Arca

<b>Ticker</b>	<b>Name</b>	<b>Primary Exchange</b>
ITA	iShares US Aerospace & Defense ETF	NYSE Arca
ITB	iShares U.S. Home Construction ETF	NYSE Arca
ITM	Market Vectors Intermediate Municipal ETF	NYSE Arca
ITOT	iShares Core S&P Total US Stock Market ETF	NYSE Arca
ITR	SPDR Barclays Intermediate Term Corporate Bond ETF	NYSE Arca
IUSG	iShares Core U.S. Growth ETF	NYSE Arca
IVE	iShares S&P 500 Value ETF	NYSE Arca
IVV	iShares Core S&P 500 ETF	NYSE Arca
IVW	iShares S&P 500 Growth ETF	NYSE Arca
IWB	iShares Russell 1000 ETF	NYSE Arca
IWC	iShares Micro-Cap ETF	NYSE Arca
IWD	iShares Russell 1000 Value ETF	NYSE Arca
IWF	iShares Russell 1000 Growth ETF	NYSE Arca
IWM	iShares Russell 2000 ETF	NYSE Arca
IWN	iShares Russell 2000 Value ETF	NYSE Arca
IWO	iShares Russell 2000 Growth ETF	NYSE Arca
IWP	iShares Russell Mid-Cap Growth ETF	NYSE Arca
IWR	iShares Russell Mid-Cap ETF	NYSE Arca
IWS	iShares Russell Mid-Cap Value ETF	NYSE Arca
IWV	iShares Russell 3000 ETF	NYSE Arca
IWX	iShares Russell Top 200 Value ETF	NYSE Arca
IXC	iShares Global Energy ETF	NYSE Arca
IXG	iShares Global Financials ETF	NYSE Arca
IXJ	iShares Global Healthcare ETF	NYSE Arca
IXN	iShares Global Tech ETF	NYSE Arca
IXP	iShares Global Telecom ETF	NYSE Arca
IXUS	iShares Core MSCI Total International Stock ETF	NYSE Arca
IYC	iShares U.S. Consumer Services ETF	NYSE Arca
IYE	iShares U.S. Energy ETF	NYSE Arca
IYF	iShares US Financials ETF	NYSE Arca
IYG	iShares U.S. Financial Services ETF	NYSE Arca
IYH	iShares U.S. Healthcare ETF	NYSE Arca
IYJ	iShares U.S. Industrials ETF	NYSE Arca
IYK	iShares US Consumer Goods ETF	NYSE Arca
IYM	iShares U.S. Basic Materials ETF	NYSE Arca
IYR	iShares US Real Estate ETF	NYSE Arca
IYT	iShares Transportation Average ETF	NYSE Arca
IYW	iShares US Technology ETF	NYSE Arca
IYY	iShares Dow Jones U.S. ETF	NYSE Arca

<b>Ticker</b>	<b>Name</b>	<b>Primary Exchange</b>
IYZ	iShares US Telecommunications ETF	NYSE Arca
JKE	iShares Morningstar Large-Cap Growth ETF	NYSE Arca
JNK	SPDR Barclays High Yield Bond ETF	NYSE Arca
JO	iPath Dow Jones-UBS Coffee Subindex Total Return ETN	NYSE Arca
JXI	iShares Global Utilities ETF	NYSE Arca
KBE	SPDR S&P Bank ETF	NYSE Arca
KBWB	PowerShares KBW Bank Portfolio	NYSE Arca
KCE	SPDR S&P Capital Markets ETF	NYSE Arca
KIE	SPDR S&P Insurance ETF	NYSE Arca
KOL	Market Vectors Coal ETF	NYSE Arca
KRE	SPDR S&P Regional Banking ETF	NYSE Arca
KWEB	KraneShares CSI China Internet ETF	NASDAQ GM
KXI	iShares Global Consumer Staples ETF	NYSE Arca
LAG	SPDR Barclays Aggregate Bond ETF	NYSE Arca
LEMB	iShares Emerging Markets Local Currency Bond ETF	NYSE Arca
LQD	iShares iBoxx \$ Investment Grade Corporate Bond ETF	NYSE Arca
MBB	iShares MBS ETF	NYSE Arca
MCHI	iShares MSCI China ETF	NYSE Arca
MDIV	First Trust NASDAQ US Multi-Asset Diversified Income Index Fun	NASDAQ GM
MDY	SPDR S&P MidCap 400 ETF Trust	NYSE Arca
MGC	Vanguard Mega Cap ETF	NYSE Arca
MGK	Vanguard Mega Cap Growth ETF	NYSE Arca
MGV	Vanguard Mega Cap Value ETF	NYSE Arca
MINT	PIMCO Enhanced Short Maturity Exchange-Traded Fund	NYSE Arca
MLPI	ETRACS Alerian MLP Infrastructure Index ETN	NYSE Arca
MLPN	Credit Suisse MLP Equal Weight Index ETN	NYSE Arca
MOAT	Market Vectors Wide Moat ETF	NYSE Arca
MOO	Market Vectors Agribusiness ETF	NYSE Arca
MUB	iShares National AMT-Free Muni Bond ETF	NYSE Arca
MXI	iShares Global Materials ETF	NYSE Arca
MYY	ProShares Short MidCap 400	NYSE Arca
NEAR	iShares Short Maturity Bond ETF	BATS
NKY	MAXIS Nikkei 225 Index Fund ETF	NYSE Arca
NOBL	ProShares S&P 500 Aristocrats ETF	NYSE Arca
OEF	iShares S&P 100 ETF	NYSE Arca
OIH	Market Vectors Oil Service ETF	NYSE Arca
OIL	iPath Goldman Sachs Crude Oil Total Return Index ETN	NYSE Arca
ONEQ	Fidelity NASDAQ Composite Index Tracking Stock ETF	NASDAQ GM
OUNZ	Merk Gold Trust	NYSE Arca

<b>Ticker</b>	<b>Name</b>	<b>Primary Exchange</b>
PALL	ETFS Physical Palladium Shares	NYSE Arca
PBE	Powershares Dynamic Biotechnology & Genome Portfolio	NYSE Arca
PBJ	Powershares Dynamic Food & Beverage Portfolio	NYSE Arca
PBP	PowerShares S&P 500 BuyWrite Portfolio	NYSE Arca
PBS	Powershares Dynamic Media Portfolio	NYSE Arca
PBW	Powershares WilderHill Clean Energy Portfolio	NYSE Arca
PCEF	PowerShares CEF Income Composite Portfolio	NYSE Arca
PCY	PowerShares Emerging Markets Sovereign Debt Portfolio	NYSE Arca
PDP	PowerShares DWA Momentum Portfolio	NYSE Arca
PEJ	Powershares Dynamic Leisure & Entertainment Portfolio	NYSE Arca
PFF	iShares US Preferred Stock ETF	NYSE Arca
PGF	PowerShares Financial Preferred Portfolio	NYSE Arca
PGJ	Powershares Golden Dragon China Portfolio	NYSE Arca
PGX	PowerShares Preferred Portfolio	NYSE Arca
PHB	PowerShares Fundamental High Yield Corporate Bond Portfolio	NYSE Arca
PHDG	PS S&P Downside Hdgd	NYSE Arca
PHO	PowerShares Water Resources Portfolio	NYSE Arca
PHYS	Sprott Physical Gold Trust	NYSE Arca
PICB	PowerShares International Corporate Bond Portfolio	NYSE Arca
PID	PowerShares International Dividend Achievers Portfolio	NYSE Arca
PIE	PowerShares DWA Emerging Markets Momentum Portfolio	NYSE Arca
PIN	PowerShares India Portfolio	NYSE Arca
PIZ	PowerShares DWA Developed Markets Momentum Portfolio	NYSE Arca
PJP	Powershares Dynamic Pharmaceuticals Portfolio	NYSE Arca
PKW	PowerShares Buyback Achievers Portfolio	NYSE Arca
PLW	PowerShares 1-30 Laddered Treasury Portfolio	NYSE Arca
PNQI	PowerShares NASDAQ Internet Portfolio	NASDAQ GM
PPH	Market Vectors Pharmaceutical ETF	NYSE Arca
PPLT	ETFS Platinum Trust	NYSE Arca
PRF	Powershares FTSE RAFI US 1000 Portfolio	NYSE Arca
PRFZ	PowerShares FTSE RAFI US 1500 Small-Mid Portfolio	NASDAQ GM
PRN	PowerShares Dynamic Industrials Sector Portfolio	NYSE Arca
PSLV	Sprott Physical Silver Trust	NYSE Arca
PSP	PowerShares Global Listed Private Equity Portfolio	NYSE Arca
PSQ	ProShares Short QQQ	NYSE Arca
PWV	PowerShares Dynamic Large Cap Value Portfolio	NYSE Arca
PXF	PowerShares FTSE RAFI Developed Markets ex-U.S. Portfolio	NYSE Arca
PXH	PowerShares FTSE RAFI Emerging Markets Portfolio	NYSE Arca
PZA	PowerShares Insured National Municipal Bond Portfolio	NYSE Arca

<b>Ticker</b>	<b>Name</b>	<b>Primary Exchange</b>
QAI	IndexIQ ETF Trust - IQ Hedge Multi-Strategy Tracker ETF	NYSE Arca
QCLN	First Trust NASDAQ Clean Edge Green Energy Index Fund	NASDAQ GM
QQEW	First Trust NASDAQ-100 Equal Weighted Index Fund	NASDAQ GM
QQQ	Powershares QQQ Trust Series 1	NASDAQ GM
QUAL	iShares MSCI USA Quality Factor ETF	NYSE Arca
REM	iShares Mortgage Real Estate Capped ETF	NYSE Arca
REZ	iShares Residential Real Estate Capped ETF	NYSE Arca
RFG	Guggenheim S&P Midcap 400 Pure Growth ETF	NYSE Arca
RJI	ELEMENTS Linked to the Rogers International Commodity Index - Total Return	NYSE Arca
RPG	Guggenheim S&P 500 Pure Growth ETF	NYSE Arca
RPV	Guggenheim S&P 500 Pure Value ETF	NYSE Arca
RSP	Guggenheim S&P 500 Equal Weight ETF	NYSE Arca
RSX	Market Vectors Russia ETF	NYSE Arca
RTH	Market Vectors Retail ETF	NYSE Arca
RWM	ProShares Short Russell2000	NYSE Arca
RWO	SPDR Dow Jones Global Real Estate ETF	NYSE Arca
RWR	SPDR Dow Jones REIT ETF	NYSE Arca
RWX	SPDR Dow Jones International Real Estate ETF	NYSE Arca
RXI	iShares Global Consumer Discretionary ETF	NYSE Arca
RYE	Guggenheim S&P 500 Equal Weight Energy ETF	NYSE Arca
RYH	Guggenheim S&P 500 Equal Weight Healthcare ETF	NYSE Arca
RYT	Guggenheim S&P 500 Equal Weight Technology ETF	NYSE Arca
SCHA	Schwab US Small-Cap ETF	NYSE Arca
SCHB	Schwab US Broad Market ETF	NYSE Arca
SCHD	Schwab US Dividend Equity ETF	NYSE Arca
SCHE	Schwab Emerging Markets Equity ETF	NYSE Arca
SCHF	Schwab International Equity ETF	NYSE Arca
SCHG	Schwab U.S. Large-Cap Growth ETF	NYSE Arca
SCHH	Schwab U.S. REIT ETF	NYSE Arca
SCHM	Schwab U.S. Mid-Cap ETF	NYSE Arca
SCHO	Schwab Short-Term U.S. Treasury ETF	NYSE Arca
SCHP	Schwab U.S. TIPs ETF	NYSE Arca
SCHR	Schwab Intermediate-Term U.S. Treasury ETF	NYSE Arca
SCHV	Schwab U.S. Large-Cap Value ETF	NYSE Arca
SCHX	Schwab US Large-Cap ETF	NYSE Arca
SCHZ	Schwab U.S. Aggregate Bond ETF	NYSE Arca
SCIF	Market Vectors India Small-Cap Index ETF	NYSE Arca
SCPB	SPDR Barclays Short Term Corporate Bond ETF	NYSE Arca

<b>Ticker</b>	<b>Name</b>	<b>Primary Exchange</b>
SCZ	iShares MSCI EAFE Small-Cap ETF	NYSE Arca
SDIV	Global X SuperDividend ETF	NYSE Arca
SDOG	ALPS Sector Dividend Dogs ETF	NYSE Arca
SDY	SPDR S&P Dividend ETF	NYSE Arca
SEA	Guggenheim Shipping ETF	NYSE Arca
SGOL	ETFS Gold Trust	NYSE Arca
SH	ProShares Short S&P500	NYSE Arca
SHM	SPDR Nuveen Barclays Short Term Municipal Bond ETF	NYSE Arca
SHV	iShares Short Treasury Bond ETF	NYSE Arca
SHY	iShares 1-3 Year Treasury Bond ETF	NYSE Arca
SIL	Global X Silver Miners ETF	NYSE Arca
SIVR	ETFS Physical Silver Shares	NYSE Arca
SJNK	SPDR Barclays Short Term High Yield Bond ETF	NYSE Arca
SKYY	First Trust ISE Cloud Computing Index Fund	NASDAQ GM
SLV	iShares Silver Trust	NYSE Arca
SLX	Market Vectors Steel Index Fund	NYSE Arca
SLY	SPDR S&P 600 Small CapETF	NYSE Arca
SLYG	SPDR S&P 600 Small Cap Growth ETF	NYSE Arca
SMH	Market Vectors Semiconductor ETF	NYSE Arca
SOCL	Global X Social Media Index ETF	NASDAQ GM
SOXX	iShares PHLX Semiconductor ETF	NASDAQ GM
SPHB	PowerShares S&P 500 High Beta Port ETF	NYSE Arca
SPLV	PowerShares S&P 500 Low Volatility Portfolio	NYSE Arca
SPY	SPDR S&P 500 ETF Trust	NYSE Arca
SRLN	SPDR Blackstone / GSO Senior Loan ETF	NYSE Arca
STIP	iShares 0-5 Year TIPS Bond ETF	NYSE Arca
STPZ	PIMCO 1-5 Year U.S. TIPS Index Exchange-Traded Fund	NYSE Arca
SUB	iShares Short-Term National AMT-Free Muni Bond ETF	NYSE Arca
SVXY	ProShares Short VIX Short-Term Futures ETF	NYSE Arca
TAN	Guggenheim Solar ETF	NYSE Arca
TBF	ProShares Short 20+ Year Treasury	NYSE Arca
TDIV	First Trust NASDAQ Technology Dividend Index Fund	NASDAQ GM
TDDT	FlexShares iBoxx 3-Year Target Duration TIPS Index Fund	NYSE Arca
TFI	SPDR Nuveen Barclays Municipal Bond ETF	NYSE Arca
THD	iShares MSCI Thailand Capped ETF	NYSE Arca
TILT	FlexShares Morningstar US Market Factor Tilt Index Fund	NYSE Arca
TIP	iShares TIPS Bond ETF	NYSE Arca
TLH	iShares 10-20 Year Treasury Bond ETF	NYSE Arca
TLT	iShares 20+ Year Treasury Bond ETF	NYSE Arca

<b>Ticker</b>	<b>Name</b>	<b>Primary Exchange</b>
TLTD	FlexShares Morningstar Developed Markets ex-US Factor Tilt Index Fund	NYSE Arca
TUR	iShares MSCI Turkey ETF	NYSE Arca
TZE	iShares Target Date 2015 ETF	NYSE Arca
UAE	iShares MSCI UAE Capped ETF	NASDAQ GM
UNG	United States Natural Gas Fund LP	NYSE Arca
URA	Global X Uranium ETF	NYSE Arca
USCI	United States Commodity Index Fund	NYSE Arca
USMV	iShares MSCI USA Minimum Volatility ETF	NYSE Arca
USO	United States Oil Fund LP	NYSE Arca
UUP	PowerShares DB US Dollar Index Bullish Fund	NYSE Arca
VAW	Vanguard Materials ETF	NYSE Arca
VB	Vanguard Small-Cap ETF	NYSE Arca
VBK	Vanguard Small-Cap Growth ETF	NYSE Arca
VBR	Vanguard Small-Cap Value ETF	NYSE Arca
VCIT	Vanguard Intermediate-Term Corporate Bond ETF	NASDAQ GM
VCLT	Vanguard Long-Term Corporate Bond ETF	NASDAQ GM
VCR	Vanguard Consumer Discretionary ETF	NYSE Arca
VCSH	Vanguard Short-Term Corporate Bond ETF	NASDAQ GM
VDC	Vanguard Consumer Staples ETF	NYSE Arca
VDE	Vanguard Energy ETF	NYSE Arca
VEA	Vanguard FTSE Developed Markets ETF	NYSE Arca
VEU	Vanguard FTSE All-World ex-US ETF	NYSE Arca
VFH	Vanguard Financials ETF	NYSE Arca
VGK	Vanguard FTSE Europe ETF	NYSE Arca
VGSH	Vanguard Short-Term Government Bond ETF	NASDAQ GM
VGT	Vanguard Information Technology ETF	NYSE Arca
VHT	Vanguard Health Care ETF	NYSE Arca
VIDI	Vident International Equity Fund	NASDAQ GM
VIG	Vanguard Dividend Appreciation ETF	NYSE Arca
VIIX	VelocityShares VIX Short Term ETN	NASDAQ GM
VIS	Vanguard Industrials ETF	NYSE Arca
VIXY	ProShares VIX Short-Term Futures ETF	NYSE Arca
VMBS	Vanguard Mortgage-Backed Securities ETF	NASDAQ GM
VNM	Market Vectors Vietnam ETF	NYSE Arca
VNQ	Vanguard REIT ETF	NYSE Arca
VNQI	Vanguard Global ex-U.S. Real Estate ETF	NASDAQ GM
VO	Vanguard Mid-Cap ETF	NYSE Arca
VOE	Vanguard Mid-Cap Value ETF	NYSE Arca

<b>Ticker</b>	<b>Name</b>	<b>Primary Exchange</b>
VOO	Vanguard S&P 500 ETF	NYSE Arca
VOT	Vanguard Mid-Cap Growth ETF	NYSE Arca
VOX	Vanguard Telecommunication Services ETF	NYSE Arca
VPL	Vanguard FTSE Pacific ETF	NYSE Arca
VPU	Vanguard Utilities ETF	NYSE Arca
VQT	Barclays ETN+ ETNs Linked to the S&P 500 Dynamic VEQTORTM Total Return Index	NYSE Arca
VSS	Vanguard FTSE All World ex-US Small-Cap ETF	NYSE Arca
VT	Vanguard Total World Stock ETF	NYSE Arca
VTI	Vanguard Total Stock Market ETF	NYSE Arca
VTIP	Vanguard Short-Term Inflation-Protected Securities ETF	NASDAQ GM
VTV	Vanguard Value ETF	NYSE Arca
VTWG	Vanguard Russell 2000 Growth	NASDAQ GM
VTWO	Vanguard Russell 2000	NASDAQ GM
VUG	Vanguard Growth ETF	NYSE Arca
VV	Vanguard Large-Cap ETF	NYSE Arca
VWO	Vanguard FTSE Emerging Markets ETF	NYSE Arca
VXF	Vanguard Extended Market ETF	NYSE Arca
VXUS	Vanguard Total International Stock ETF	NASDAQ GM
VXX	iPATH S&P 500 VIX Short-Term Futures ETN	NYSE Arca
VXZ	iPATH S&P 500 VIX Mid-Term Futures ETN	NYSE Arca
VYM	Vanguard High Dividend Yield ETF	NYSE Arca
WIP	SPDR DB International Government Inflation-Protected Bond ETF	NYSE Arca
XBI	SPDR S&P Biotech ETF	NYSE Arca
XES	SPDR S&P Oil & Gas Equipment & Services ETF	NYSE Arca
XHB	SPDR S&P Homebuilders ETF	NYSE Arca
XIV	VelocityShares Daily Inverse VIX Short Term ETN	NASDAQ GM
XLB	Materials Select Sector SPDR Fund	NYSE Arca
XLE	Energy Select Sector SPDR Fund	NYSE Arca
XLF	Financial Select Sector SPDR Fund	NYSE Arca
XLG	Guggenheim Russell Top 50 Mega Cap ETF	NYSE Arca
XLI	Industrial Select Sector SPDR Fund	NYSE Arca
XLK	Technology Select Sector SPDR Fund	NYSE Arca
XLP	Consumer Staples Select Sector SPDR Fund	NYSE Arca
XLU	Utilities Select Sector SPDR Fund	NYSE Arca
XLV	Health Care Select Sector SPDR Fund	NYSE Arca
XLY	Consumer Discretionary Select Sector SPDR Fund	NYSE Arca
XME	SPDR S&P Metals & Mining ETF	NYSE Arca
XOP	SPDR S&P Oil & Gas Exploration & Production ETF	NYSE Arca

<b>Ticker</b>	<b>Name</b>	<b>Primary Exchange</b>
XPH	SPDR S&P Pharmaceuticals ETF	NYSE Arca
XRT	SPDR S&P Retail ETF	NYSE Arca
XSD	SPDR S&P Semiconductor ETF	NYSE Arca
XTN	SPDR S&P Transportation ETF	NYSE Arca
ZIV	VelocityShares Daily Inverse VIX Medium Term ETN	NASDAQ GM

## 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 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

**III. By May 29, 2015, Participants shall provide to the SEC a supplemental joint assessment relating to the impact of the Plan and calibration of the Percentage Parameters as follows:**

- A. Assess the statistical and economic impact on liquidity 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.