Additions: <u>Underlined</u> Deletions: [Bracketed]

Rules of NYSE Arca Equities, Inc.

Rule 7 Equities Trading

Section 3. NYSE Arca Marketplace

Rule 7.31P. Orders and Modifiers

- (h) Pegged Orders. A Limit Order that does not route with a working price that is pegged to a dynamic reference price. If the designated reference price is higher (lower) than the limit price of a Pegged Order to buy (sell), the working price will be the limit price of the order.
 - (1) Market Pegged Order. A Pegged Order to buy (sell) with a working price that is pegged to the PBO (PBB). A Market Pegged Order to buy (sell) will be rejected on arrival, or cancelled when resting, if there is no PBO (PBB) against which to peg. Market Pegged Orders will not participate in any auctions.
 - (A) Market Pegged Orders are not displayed and are ranked Priority 3 Non- Display Orders.
 - (B) If the PBBO is locked or crossed, both an arriving and resting Market Pegged Order will wait for a PBBO that is not locked or crossed before the working price is adjusted and the order becomes eligible to trade.
 - (C) A Market Pegged Order to buy (sell) may include an offset value that will set the working price below (above) the PBO (PBB) by the specified offset, which may be specified up to two decimals.
 - (2) Primary Pegged Order. A Pegged Order to buy (sell) with a working price that is pegged to the PBB (PBO), with no offset allowed. A Primary Pegged Order to buy (sell) will be rejected on arrival, or cancelled when resting, if there is no PBB (PBO) against which to peg. A Primary Pegged Order is eligible to participate in auctions at the limit price of the order.

- (A) A Primary Pegged Order must include a minimum of one round lot displayed. The working price of a Primary Pegged Order equals the display price and the display quantity is ranked Priority 2 Display Orders and the reserve interest is ranked Priority 3 Non-Display Orders.
- (B) A Primary Pegged Order will be rejected if the PBBO is locked or crossed. If after arrival, the PBBO becomes locked or crossed, the Primary Pegged Order will wait for a PBBO that is not locked or crossed before the working price is adjusted, but remains eligible to trade at its current working price.
- (3) Discretionary Pegged Order. A Pegged Order to buy (sell) that upon entry to the NYSE Arca Marketplace is assigned a working price equal to the lower (higher) of the midpoint of the PBBO ("Midpoint Price") or the limit price of the order. Any untraded shares of such order are assigned a working price equal to the lower (higher) of PBB (PBO) or the order's limit price and is automatically adjusted in response to changes to the PBB (PBO) for buy (sell) orders up (down) to the order's limit price. In order to trade with contra-side orders on the NYSE Arca Book, a Discretionary Pegged Order to buy (sell) will exercise the least amount of price discretion necessary from its working price to its discretionary price (defined as the lower (higher) of the Midpoint Price or the Discretionary Pegged Order's limit price), except during periods of quote instability, as defined in paragraph (h)(3)(D) below.
 - (A) Discretionary Pegged Orders are not displayed, must be designated Day, and are eligible to be designated for the Core Trading Session only. Discretionary Pegged Orders that include a designation for the Early Trading Session or Late Trading Session will be rejected.
 - (B) When exercising discretion, Discretionary Pegged Orders maintain their time priority at their working price as Priority 3 Non-Display Orders and are prioritized behind Priority 3 Non-Display Orders with a working price equal to the discretionary price of a Discretionary Pegged Order at the time of execution. If multiple Discretionary Pegged Orders are exercising price discretion during the same book processing action, they maintain their relative time priority at the discretionary price.
 - (C) A Discretionary Pegged Order is eligible to exercise price discretion to its discretionary price, except during periods of quote instability, as specified in paragraph (h)(3)(D) below.
 - (i) If the Corporation determines the PBB for a particular security to be an unstable quote in accordance with paragraph (h)(3)(D), it will restrict buy Discretionary Pegged Orders in that security from exercising price discretion to trade against interest above the PBB.
 - (ii) If the Corporation determines the PBO for a particular security to be an unstable quote in accordance with paragraph (h)(3)(D), it will restrict sell Discretionary Pegged

Orders in that security from exercising price discretion to trade against interest below the PBO.

- (D) Quote Stability. The Corporation utilizes real-time relative quoting activity of protected quotations and a mathematical calculation (the "quote instability calculation") to assess the probability of an imminent change to the current PBB to a lower price or PBO to a higher price for a particular security ("quote instability factor"). When the quoting activity meets predefined criteria and the quote instability factor calculated is greater than the Corporation's defined threshold ("quote instability threshold"), the Corporation treats the quote as not stable ("quote instability" or a "crumbling quote"). During all other times, the quote is considered stable ("quote stability"). The Corporation independently assesses the stability of the PBB and PBO for each security.
 - (i) Crumbling Quote. When the Corporation determines a quote, either the PBB or the PBO, is unstable, the determination remains in effect at that price level for ten (10) milliseconds. The Corporation will only treat one side of the PBBO as unstable in a particular security at any given time. Quote instability or a crumbling quote is determined by the Corporation when following factors occur:
 - (A) the PBB and PBO are the same as the PBB and PBO one (1) millisecond ago; and
 - (B) the PBBO spread is less than or equal to the thirty (30) day median PBBO spread during the Core Trading Session; and
 - (C) there are more protected quotations on the far side, i.e. more protected quotations on the PBO than the PBB for buy orders, or more protected quotations on the PBB than the PBO for sell orders; and
 - (D) the quote instability factor result from the quote stability calculation is greater than the defined quote instability threshold.
 - - (a) Quote Stability Coefficients. The Corporation utilizes the values below for the quote stability coefficients.

(i) C0 = -2.39515

(ii) C1 = -0.76504

(iii) C2 = 0.07599

(iv) C3 = 0.38374

(v) C4 = 0.14466

- (b) Quote Stability Variables. The Corporation utilizes the quote stability variables defined below to calculate the current quote instability factor.
 - (i) N = the number of protected quotations on the near side of the market, i.e. PBB for buy orders and PBO for sell orders.
 - (ii) F = the number of protected quotations on the far side of the market, i.e. PBO for buy orders and PBB for sell orders.
 - (iii) N-1 = the number of protected quotations on the near side of the market one (1) millisecond ago.
 - (iv) F-1 = the number of protected quotations on the far side of the market one (1) millisecond ago.
- (2) Quote Instability Threshold. The Corporation utilizes a quote instability threshold of 0.32.
- (3) The Corporation reserves the right to modify the quote instability coefficients or quote instability threshold at any time, subject to a filing of a proposed rule change with the SEC.
