

Part III: Manner of Operations

Item 7: Order Types and Attributes

- a. Identify and explain each order type offered by the NMS Stock ATS. In your explanation, include the following:
 - i. priority, including the order type's priority upon order entry and any subsequent change to priority (if applicable); whether and when the order type can receive a new time stamp; the order type's priority vis-à-vis other orders on the book due to changes in the NBBO or other reference price; and any instance in which the order type could lose execution priority to a later arriving order at the same price;
 - ii. conditions, including any price conditions (e.g., how price conditions affect the rank and price at which it can be executed; conditions on the display or non-display of an order; or conditions on executability and routability);
 - iii. order types designed not to remove liquidity (e.g., post-only orders), including what occurs when such order is marketable against trading interest on the NMS Stock ATS when received;
 - iv. order types that adjust their price as changes to the order book occur (e.g., price sliding orders or pegged orders) or have a discretionary range, including an order's rank and price upon order entry and whether such prices or rank may change based on the NBBO or other market conditions when using such order type; when the order type is executable and at what price the execution would occur; whether the price at which the order type can be executed ever changes; and if the order type can operate in different ways, the default operation of the order type;
 - v. whether an order type is eligible for routing to other Trading Centers;
 - vi. the time-in-force instructions that can be used or not used with each order type;
 - vii. the circumstances under which order types may be combined with another order type, modified, replaced, canceled, rejected, or removed from the NMS Stock ATS; and
 - viii. the availability of order types across all forms of connectivity to the NMS Stock ATS and differences, if any, in the availability of an order type across those forms of connectivity.

PURE ATS is a volume-based trajectory crossing venue. However, unlike existing time-based trajectory crossing venues that execute orders based on the aggregated prices of printed trades over time (e.g., a volume weighted average price), PURE ATS uses a trajectory matching protocol that executes orders by referencing the volume, and associated price, of each trade printed to the SIP as they occur (see Part III, Item 23, Market Data, for the precise parameters of the SIP-reported trades that the ATS references). Each firm and conditional order sent to the ATS will include a symbol, size, price, market side, a liquidity transfer rate ("LTR") (explained below), and a Time-in-Force, among other terms. Matched orders receive execution fills, including partial fills called "child fills." The fills are a pre-determined percentage of each SIP-reported trade, at the printed price. Similar to orders placed in a percentage of volume execution algorithm, the PURE ATS will produce a series of "child fills." This series of child fills is called a "stream". A stream will continue uninterrupted between two matched orders so long as both orders have quantity and remain "marketable" (as such term is defined and discussed in detail below).

The remainder of this section provides additional detail on the (i) order types accepted on the ATS; (ii) how orders are prioritized; (iii) marketability (bid/offer) requirements; (iv) the ATS matching rules; (v) allocation and price discovery; (vi) order modification and cancellation; and (vii) Time-in-Force (TIF)/order instructions. It also sets forth numerous examples meant to illustrate these principles.

Order Types

To effect the matching protocol described above, PURE uses percentage (%) rate-based order types ("Order Types"). The % rate associated with each of the five Order Types listed below is called the LTR (referenced above). An LTR determines the size of each child fill in a stream by multiplying the applicable percentage against the quantity of each SIP-reported trade. Each Order Type has a minimum LTR and a maximum LTR, except the LS Order Type has an unlimited maximum LTR. The LTR is applied to a SIP-reported trade quantity to determine the size of a child fill, which is then decremented against the total quantity of the order (decrementing is further explained and illustrated in "Matching" found below in this item). The child fill will be at the exact price of the relevant SIP-reported trade to which the LTR was applied. This LTR can then be continuously applied to each successive SIP-reported trade to create a series of child fills in a stream. The stream can continue over time, without any time limitations (during the course of an entire trading day with any remaining quantities cancelled at the end of a trading day).

PURE ATS has five Order Types. These five Order Types are:

1. Liquidity Seeking ("LS" or "Infinite%")

This Order Type is seeking a child fill quantity up to the full quantity of its entire order regardless of the size of the SIP-reported trade. Subscribers can set a minimum LTR for LS orders; otherwise, the default minimum LTR for an LS order is 1%.

2. 10-200% ("200%")

This Order Type is seeking a child fill quantity of 200% of the quantity of each contemporaneous SIP-reported trade but will accept at least 10%. This means that for a SIP-reported trade of 100 shares, the 200% Order Type will accept 200 shares to 10 shares for that child fill at the price of the SIP-reported trade.

3. 5-30% ("30%")

This Order Type is seeking a child fill quantity of 30% of the quantity of each contemporaneous SIP-reported trade but will accept at least 5%. This means that for a SIP-reported trade of 100 shares, the 30% Order Type is seeking 30 shares to 5 shares for that child fill at the price of the SIP-reported trade.

4. 5-15% ("15%")

This Order Type is seeking a child fill quantity of 15% of the quantity of each contemporaneous SIP-reported trade but will accept at least 5%. This means that for a SIP-reported trade of 100 shares, the 15% Order Type is seeking 15 shares to 5 shares for that child fill at the price of the SIP-reported trade.

5. Custom LTR Range ("Custom")

This Order Type is seeking a child fill quantity based on the Custom parameters entered. Custom orders require both a minimum and maximum LTR, and must be within the range of 1-500%; the minimum and maximum LTR of a Custom order may be equal. For example, a Custom order with a 2% minimum and a 4% maximum, will accept 2 shares to 4 shares in a child fill referencing a SIP-reported trade of 100 shares, at the price of the SIP-reported trade.

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Prioritization

Firm and conditional orders are prioritized based on (i) Order Type, (ii) size of the order, (iii) marketability (as defined below), and (iv) time the order was received, in that sequence. The ATS processes (i.e., assesses for matching compatibility, as described below) firm orders prior to conditional orders regardless of the order terms of the conditional orders.

The first term considered in prioritization ranking is the Order Type. Order Types are prioritized in the following order: (1) LS, (2) 200%, (3) 30%, (4) 15%, and (5) Custom. Custom orders will always be ranked behind the standardized Order Types. This is true even if a Subscriber enters a Custom order with a higher maximum % LTR than a non-Custom order. Additionally, when multiple Custom orders are resting on the ATS order book, such Custom orders will be prioritized first by the highest maximum LTR, followed by size, marketability, and arrival time.

The following example demonstrates the Order Type prioritization if the ATS received the three orders chronologically:

Buy Order 1: 15%
Buy Order 2: 30%
Buy Order 3: 200%

Regardless of any other terms of the orders (e.g., size, marketability, or time), the intra-Order Type prioritization would be based on Order Type, as follows:

Buy Order 3 (Highest priority Order Type)
Buy Order 2 (2nd Highest priority Order Type)
Buy Order 1 (3rd Highest priority Order Type)

For two orders in the same Order Type, the second term considered in prioritization ranking is the size of the order quantity. The larger the order, the higher the standing. For example, if the ATS received the following three orders chronologically:

Buy Order 1: 15%, for 25,000 shares
Buy Order 2: 15%, for 5,000 shares
Buy Order 3: 15%, for 50,000 shares

The inter-Order Type prioritization would be:

Buy Order 3 (50,000 shares)
Buy Order 1 (25,000 shares)
Buy Order 2 (5,000 shares)

The third term considered in prioritization ranking (i.e., for orders that are the same Order Type and of equal size) is the marketability of the order. The marketability of the order for a potential stream match is the difference between the order's limit price and the contra-side NBBO. For instance, if the NBBO is \$10.01 x \$10.02 and the limit of a buy order is \$10.05, the marketability of an order is .03. The greater the marketability, the higher the standing in terms of priority. LS orders also have marketability for a midpoint NBBO trade (i.e., not a stream match), if the order's limit price is at least at the midpoint of the prevailing NBBO (Midpoint NBBO trades occur only when two LS orders match and result in a single trade. These are described below in the Allocation and Price Discovery section and Example 6 of this response).

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To illustrate prioritization for a potential stream match, if the ATS received the following three orders chronologically:

Buy Order 1: 15%, for 25,000 shares, marketable by 4 cents
Buy Order 2: 15%, for 25,000 shares, marketable by 10 cents
Buy Order 3: 15%, for 25,000 shares, marketable by 6 cents

The inter-Order Type prioritization would be:

Buy Order 2 (10 cents marketable)
Buy Order 3 (6 cents marketable)
Buy Order 1 (4 cents marketable)

The final term considered in prioritization ranking (i.e., for orders that are the same Order Type, equal size, and have equal marketability) is the time the order arrived, with priority being assigned chronologically. Given the aforementioned prioritization logic, it is by system design that orders arriving later could feasibly be given higher priority than earlier arriving orders.

Marketability

For an order to be eligible for a stream match, it must be marketable by a minimum threshold (the "minimum marketability threshold") (minimum marketability thresholds are not applied to midpoint NBBO trades). The minimum marketability thresholds are set on a stock-by-stock basis and are neither publicly available nor made available to Subscribers. The baseline minimum marketability threshold is the stock's average quoted spread. PURE ATS can modify the minimum marketability threshold for particular stocks to account for volatility, including in the event of anomalous volatility of the overall market, relevant sector, or a specific stock. To monitor for circumstances that may warrant modifying the minimum marketability threshold, PURE considers various volatility proxies such as the VIX, Implied Volatilities, and Realized Volatilities of single stocks, sector indices, and/or market-wide indices. The minimum marketability thresholds are manually updated by PURE Market Operations and are reviewed biannually.

For example, for a stock with an average quoted spread of 2 cents that is experiencing significantly higher price volatility, the minimum marketability threshold could be increased to 4 cents. This would require a buy order to have a limit of 4 cents higher than the current national best offer, and a sell order to have a limit of 4 cents below the current national best bid to be eligible for a match.

PURE believes that modifications to the minimum marketability threshold in these circumstances promotes matches that yield more efficient streams between Subscribers.

Note that minimum marketability thresholds are only relevant to the creation of a match (i.e., to be eligible for a match, an order must meet the minimum marketability threshold). Once an order is in a match, so long as the order remains marketable (i.e., the order's limit price is priced at or through its respective NBBO farside), the order will remain in the match. If a matched order ceases to be marketable, the match will end.

For example, if the NBBO is \$10.01 x \$10.02, for a stock with a minimum marketability threshold of 4 cents, a sell order would need to be priced at \$9.97 to be eligible for a match. Once matched, the order would only need to remain marketable to remain in the match. If the order became unmarketable, i.e., the NBBO moved to \$9.96 X \$9.97, the match would end. To become

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eligible for a match again (with the previous matched order or any other order), the sell order would again need to meet minimum marketability thresholds at the then-prevailing NBBO.

Matching

Matches are bilateral (i.e., between only two orders). For a match to occur, two orders must be compatible. Compatibility means that there is a buy and sell order in the same security, both meeting the minimum marketability threshold (not applicable to midpoint NBBO trades), with overlapping LTRs (i.e., the LTR minimum to maximum range of one order overlaps with the LTR minimum to maximum range of another order), and that any additional order handling instructions sent with the orders (as described below in Part III, Item 11, Additional Order Parameters) are satisfied. If there are overlapping LTRs, the orders will be matched at the highest LTR within the acceptable range for each order. If an order has residual LTR after being matched, the order's decremented LTR will be available for other matches, meaning the order can be in multiple matches concurrently. Note that for prioritization purposes, a decremented order maintains its original priority standing on the order book (e.g., an order using the 200% Order Type with a residual 170% LTR following a match, is still treated as a 200% Order Type for purposes of prioritization).

Example 1 – Compatible LTRs:

Order 1 is a buy order for 5,000 shares in the 15% Order Type (min. of 5%, max. of 15%).

Order 2 is a sell order for 5,000 shares in the 15% Order Type (min. of 5%, max. of 15%).

These orders have overlapping LTRs because the LTR ranges of the orders overlap. Thus, the orders are eligible to be matched. The orders will be matched at 15%, which is the highest common LTR between the two orders (in this example, this also happens to be the maximum LTR for each order).

Example 2 – Incompatible LTRs:

Order 1 is a buy order for 5,000 shares in the 15% Order Type (min. of 5%, max. of 15%).

Order 2 is a sell order for 5,000 shares in the Custom Order Type, with a 1% minimum and a 4% maximum LTR.

These orders do not have overlapping LTRs because Order 2's LTR range (1% to 4%) does not overlap with Order 1's LTR range (5% to 15%). Thus, these orders are not eligible to be matched.

Example 3 – Compatible But Different LTRs:

Order 1 is a buy order for 5,000 shares in the 30% Order Type (min. of 5%, max. of 30%).

Order 2 is a sell order for 5,000 shares in the 15% Order Type (min. of 5%, max. of 15%).

These orders have overlapping LTRs because the LTR ranges of the orders overlap. Thus, the orders are eligible to be matched. The orders will be matched at 15%, which is the highest common LTR between the two orders. Order 1 will also have a residual LTR of 15%, which will rest in the ATS order book awaiting other potential matches.

Example 4 – Compatible LTRs and Concurrent Matching:

Order 1 is a buy order for 10,000 shares in the 15% Order Type (min. of 5%, max. of 15%).

Order 2 is a buy order for 10,000 shares in the 15% Order Type (min. of 5%, max. of 15%).

Order 3 is a sell order for 20,000 shares in the 30% Order Type (min. of 5%, max. of 30%).

Here, Order 3 has overlapping LTRs with both Order 1 and Order 2, and has sufficient LTR to match with both contra-side orders. Therefore, Order 3 will enter two concurrent matches, one

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with Order 1 and a second with Order 2. In this way, Order 1 and Order 2 will satisfy their maximum LTR of 15%, and Order 3 will achieve its maximum LTR of 30% (two matches each at 15% LTR).

Example 5 – Compatible LTRs and Sequential Matching:

Order 1 is a buy order for 10,000 shares in the 30% Order Type (min. of 5%, max. of 30%).

Order 2 is a buy order for 10,000 shares in the 30% Order Type (min. of 5%, max. of 30%).

Order 3 is a sell order for 20,000 shares in the 30% Order Type (min. of 5%, max. of 30%).

Here, Order 3 has overlapping LTRs with both Order 1 and Order 2, but only has LTR to match with one of the orders since the orders will be matched at the highest common LTR—here 30%. Since Order 1 is prioritized over Order 2, Order 3 and Order 1 form a match at a 30% LTR. Order 2 will remain resting on the ATS order book. However, because Order 3 is larger in size than Order 1, Order 3 will have a residual 10,000 shares to sell once Order 1's buy order is completed. Therefore, once Order 1's quantity is fully exhausted, Order 3 will form a match with Order 2, which will continue as a stream until both Order 3 and Order 2 are fully exhausted (since Order 3's residual 10,000 shares to sell is equal to Order 2's 10,000 shares to buy).

Allocation and Price Discovery

Once a match has occurred, the ATS will use each observed SIP-reported trade in the relevant security as a reference trade to generate a "child fill". A series of reference trades create a series of "child fills", or a stream of executions. Note that each SIP-reported trade is only referenced once in each stream (and all concurrent streams in the ATS reference each SIP-reported trade once). The ATS references SIP-reported trades in real-time as they are reported in succession (subject to the filtering logic described in Part III, Item 23, below). The time between SIP-reported trades in a relevant security will correlate to the time between child fills in a stream. (This refers to time between SIP-reported trades resulting from, for example, illiquid stocks. To the extent that there are malfunctions or other issues with the SIP that result in time gaps, the procedures set forth in Part III, Item 20, below will be applied). In the event that there is no SIP-reported trade after the match is formed, the orders will remain matched but there will be no child fills, and therefore no stream (i.e., a match can exist without a stream).

To illustrate how child fills are generated in a stream, for a match at an LTR of 30%, the fill per reference trade (for each order in the stream) is as follows:

Reference Trade 1: SIP-reported Trade of 1,000 @ \$36 would result in Child Fill 1 of 300 @ \$36

Reference Trade 2: SIP-reported Trade of 500 @ \$35.995 would result in Child Fill 2 of 150 @ \$35.995

Reference Trade 3: SIP-reported Trade of 1000 @ \$36.01 would result in Child Fill 3 of 300 @ \$36.01

A stream will continue uninterrupted providing "child fills" as long as both orders remain marketable (i.e., the orders' limit prices are priced at or through the contra-side NBBO), have quantity remaining, and have not been cancelled.

The only exception to an LTR governing fills is when two LS orders match. When two LS orders match, they will execute at the midpoint of the NBBO at the moment of the match. For example, if a Buy LS Order and Sell LS Order are matched when the NBBO is \$36.00-\$36.01, a trade will occur at \$36.005 for the largest quantity possible (i.e., the smaller quantity of the two orders matched at the midpoint).

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The two examples below show the impact on a pre-existing stream involving one LS order and a non-LS order when a second LS order on the contra-side of the first LS order enters the ATS.

In the first scenario (Example 6), a stream involving an LS order and a non-LS order is broken by an incoming contra-side LS order with a size greater than or equal to the remaining quantity of the first LS order. In no other circumstances would a stream be broken by an incoming order. In the second scenario (Example 7), the stream involving the LS order and non-LS order continues even after the second LS order matches and executes a block trade against the first LS order, because the first LS order has residual quantity after the block trade.

Example 6 – LS / Compatible LTR / LS Contra completes the LS:

Order 1 is a buy order for 40,000 shares in the LS Order Type.

Order 2 is a sell order for 50,000 shares in the 15% Order Type.

Orders 1 and 2 will be matched at 15% to participate in Stream 1, and Order 1 will have a residual LTR of Infinite% in the order book resting simultaneously.

Order 3 is an incoming sell order for 50,000 shares in the LS Order Type.

Order 1 and Order 3 will be matched to participate in Stream 2. Stream 2 will be comprised of a single block trade for the residual of Order 1's size at the then-current NBBO midpoint.

Stream 1 (Order 1 & Order 2) will end (because Order 1 is completed by Order 3) and Order 3's and Order 2's residual quantities will return to the ATS order book.

Example 7 – LS / Compatible LTR / LS Contra does not complete the LS:

Order 1 is a buy order for 100,000 shares in the LS Order Type.

Order 2 is a sell order for 50,000 shares in the 15% Order Type.

Orders 1 and 2 will be matched at 15% to participate in Stream 1, and Order 1 will have a residual LTR of Infinite% in the order book resting simultaneously.

Order 3 is a sell order for 50,000 shares in the LS Order Type.

Order 1 and Order 3 will trade a block for Order 3's size of 50,000 shares at the then-current midpoint NBBO.

Stream 1 (Order 1 & Order 2) will continue referencing SIP-reported trades.

Order Modifications and Cancellations

All firm and conditional orders can be modified or canceled at any time.

For a firm or conditional order resting on the ATS order book, modifications to the Order Type, size, or limit price (which impacts marketability) will not result in a new timestamp for prioritization purposes, but may impact the order's priority status based on the modified parameters (in accord with the logic set forth in the Prioritization section).

For an order in a match, modifications will not impact the match or stream unless: (i) the limit price is changed and renders the order unmarketable (i.e., the order is no longer priced to at least the contra-side NBBO); or (ii) the LTR is changed (i.e., Order Type changes or changes to the LTR rate for Custom orders) such that the new LTR range does not overlap with the contra-side order's LTR range.

In the event of a PURE ATS or market-triggered trading stoppage, all orders will be cancelled back to Subscribers.

TIF/Order Instructions

The ATS does not support post-only orders or route to other trade centers.

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Day, Immediate or Cancel (IOC), and the ATS's streaming analog Stream or Kill (SOK) are the only TIF order instructions supported by the ATS.

The IOC TIF can only be applied to the LS Order Type, and any other Order Type using the IOC TIF is rejected. The Day TIF may be applied to any Order Type.

SOK represents a specific PURE ATS TIF order instruction where a Stream or Kill (“SOK”) order is accepted if a contra-side order is resting on the order book and is compatible with the SOK order. If the contra order to the SOK order is not resting on the ATS order book, the SOK order will be cancelled immediately. If accepted, the SOK order is immediately matched with its compatible contra-side order. If the order is not completed for any reason, it will be cancelled back to the Subscriber rather than rest in the order book.

Example 8 – SOK / Contra is resting and meets the LTR:

Order 1 is a resting sell order in the 15% Order Type (min. of 5%, max. of 15%) for 10,000 shares.

Order 2 is a SOK buy order in the 15% Order Type (min. of 5%, max. of 15%) for 10,000 shares. Because Order 1 and Order 2 have overlapping LTR ranges, Order 2 will be matched with Order 1.

Example 9 – SOK / Contra is resting and does not meet the LTR:

Order 1 is a resting sell order in the Custom Order Type, 1-4% LTR for 10,000 shares.

Order 2 is a SOK buy order in the 15% Order Type (min. of 5%, max. of 15%) for 10,000 shares. Because Order 1 and Order 2 do not have overlapping LTR ranges, Order 2 will be cancelled back and Order 1 will continue to rest.

Example 10 – SOK / Contra is resting and meets the LTR, but Quantity cannot complete:

Order 1 is a resting sell order in the 15% Order Type (min. of 5%, max. of 15%) for 10,000 shares.

Order 2 is a SOK buy order in the 15% Order Type (min. of 5%, max. of 15%) for 50,000 shares. Because Order 1 and Order 2 have overlapping LTR ranges, Order 2 will be matched with Order 1.

After Order 1 is completed, if there is a contra-side order on the ATS order book that is compatible with Order 2, the two orders will be matched. If there is no compatible contra-side order resting on the ATS order book, the remaining 40,000 shares of Order 2 will be cancelled back to the Subscriber.

Item 9: Conditional Orders and Indications of Interest

- a. Does the NMS Stock ATS send or receive any messages indicating trading interest (e.g., IOIs, actionable IOIs, or conditional orders)?

☒ Yes ☐ No

If yes, identify and explain the use of the messages, including information contained in messages (e.g., price or size minimums), how the message is transmitted (e.g., order management system, smart order router, FIX), when the message is transmitted (e.g., automatically by the ATS, or upon the sender's request), the type of Persons that receive the message (e.g., Subscribers, Trading Centers), responses to conditional orders or IOIs (e.g., submission to firm-up conditional orders), and the conditions under which the message might result in an execution in the ATS (e.g., response time parameters, interaction, and matching).

PURE ATS accepts conditional orders from all Subscribers. Such conditional orders are only accepted by the ATS when entered through Subscriber algorithms through the Subscribers' FIX connections.

Each conditional order specifies a symbol, side, quantity, and Order Type, and are subject to the same minimum size requirements as firm orders (described in Part III, Item 8).

Conditional orders can interact (i.e., match), with both firm and conditional orders resting on the ATS (subject to the prioritization and matching logic described in Part III, Items 7 and 11). Once the ATS identifies a potential match, the ATS will send a firm-up request to the conditional side of the potential match (where both sides of the match are conditional orders, if the ATS generates a bilateral firm-up request for each conditional side of the potential match). Each All firm-up requests contains an identification number for each bilateral pairing, the size of the requested firm-up, the limit, and the LTR.

The Subscribers' algorithms receiving the firm-up request will then send corresponding orders that are firm. The Subscribers' algorithms may respond with orders that differ in quantity, price, and Order Type (as described in Part III, Item 7 above) than their conditional order. Each conditional order expires upon firm-up request, and firm-ups must be responded to within two seconds or otherwise the firm-up expires and no match occurs. After two seconds and expiration of the firm-up, a new conditional order would have to be sent to be considered for any future matches.

The ATS does not segment conditional orders from firm orders and uUpon receipt of the firm-up order, the ATS will run its standard prioritization and match logic (as described in Part III, Items 7 and 11). If the firmed-up order remains compatible with the contra-side firm order (or firmed-up order where both sides of the match were conditional orders), and the contra-side firm order (or firmed-up order) remains available, the ATS will match the two orders. Note that if the ATS identifies a potential match for a contra-side firm order with another firm order (i.e., on the same side as the conditional order) prior to receiving a firmed-up order from the conditional side order (even after the firm-up request has been generated), the ATS will match the two firm orders ahead of the conditional order.

Quantity and Order Type changes to conditional and firm orders can be made in accordance with the procedures described in Part III, Item 7. All conditional orders are treated as Stream or Kill (SOK) orders. All conditional orders (including buy, sell, sell short, and sell short exempt) are cancelled at the end of the day.

Item 11: Trading Services, Facilities and Rules

- c. Explain the established, non-discretionary rules and procedures of the NMS Stock ATS, including order interaction rules for the priority, pricing methodologies, allocation, matching, and execution of orders and trading interest, and other procedures governing trading, such as price improvement functionality, price protection mechanisms, short sales, locked-crossed markets, the handling of execution errors, and the time-stamping of orders and executions.

The ATS order book matches compatible firm or conditional orders with marketable price limits at the highest compatible LTR and provide fills as a function of the LTR and the contemporaneous SIP-reported trades based on the following logic (described in detail with examples in Part III, Item 7).

Prioritization

Firm and conditional orders are prioritized based on (i) Order Type, (ii) size of the order, (iii) marketability, and (iv) time the order was received, in that sequence. The ATS processes (i.e., assesses for matching compatibility, as described above in Part III, Item 7 and below) firm orders prior to conditional orders regardless of the order terms of the conditional orders.

The first term considered in prioritization ranking is the Order Type. Order Types are prioritized in the following order: (1) LS, (2) 200%, (3) 30%, (4) 15%, and (5) Custom. Custom orders will always be ranked behind the standardized Order Types. This is true even if a Subscriber enters a Custom order with a higher maximum % LTR than a non-Custom order. Additionally, when multiple Custom orders are resting on the ATS order book, such Custom orders will be prioritized first by the highest maximum LTR, followed by size, marketability, and arrival time.

For two orders in the same Order Type, the second term considered in prioritization ranking is the size of the order quantity. The larger the order, the higher the standing.

The third term considered in prioritization ranking (i.e., for orders that are the same Order Type and of equal size) is the marketability of the order. The marketability of the order for a potential stream match is the difference between the order's limit price and the contra-side NBBO. The greater the marketability, the higher the standing in terms of priority. LS orders also have marketability for a midpoint NBBO trade (i.e., not a stream match), if the order's limit price is at least at the midpoint of the prevailing NBBO (Midpoint NBBO trades occur only when two LS orders match and result in a single trade. These are described in Part III, Item 7 (Order Types and Attributes) in the Allocation and Price Discovery section and Example 6 in the same section).

The final term considered in prioritization ranking (i.e., for orders that are the same Order Type, equal size, and have equal marketability) is the time the order arrived, with priority being assigned chronologically. Given the aforementioned prioritization logic, it is by system design that orders arriving later could feasibly be given higher priority than earlier arriving orders.

Matching

Matches are bilateral (i.e., between only two orders). For a match to occur, two orders must be compatible. Compatibility means that there is a buy and sell order in the same security, both meeting the minimum marketability threshold (not applicable to midpoint NBBO trades), with overlapping LTRs (i.e., the LTR minimum to maximum range of one order overlaps with the LTR minimum to maximum range of another order), and that any additional order handling

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Exhibit 3

instructions sent with the orders (as described below in Additional Order Parameters) are satisfied. If there are overlapping LTRs, the orders will be matched at the highest LTR within the acceptable range for each order. If an order has residual LTR after being matched, the order's decremented LTR will be available for other matches, meaning the order can be in multiple matches concurrently. Note that for prioritization purposes, a decremented order maintains its original priority standing on the order book (e.g., an order using the 200% Order Type with a residual 170% LTR following a match, is still treated as a 200% Order Type for purposes of prioritization).

Allocation and Price Discovery

Once a match has occurred, the ATS will use each observed SIP-reported trade in the relevant security as a reference trade to generate a "child fill". A series of reference trades create a series of "child fills", or a stream of executions. Note that each SIP-reported trade is only referenced once in each stream (and all concurrent streams in the ATS reference each SIP-reported trade once). The ATS references SIP-reported trades in real-time as they are reported in succession (subject to the filtering logic described in Part III, Item 23, below). The time between SIP-reported trades in a relevant security will correlate to the time between child fills in a stream. (This refers to time between SIP-reported trades resulting from, for example, illiquid stocks. To the extent that there are malfunctions or other issues with the SIP that result in time gaps, the procedures set forth in Part III, Item 20, below will be applied). In the event that there is no SIP-reported trade after the match is formed, the orders will remain matched but there will be no child fills, and therefore no stream (i.e., a match can exist without a stream).

A stream will continue uninterrupted providing "child fills" as long as both orders remain marketable (i.e., the orders' limit prices are priced at or through the contra-side NBBO), have quantity remaining, and have not been cancelled.

Below is an example applying the ATS's matching logic to a series of orders:

The ATS receives three Buy orders in the following chronology:

Buy Order 1: 15%

Buy Order 2: 30%

Buy Order 3: 200%

The prioritization of the orders will be:

Buy Order 3 (Highest priority Order Type)

Buy Order 2 (2nd priority Order Type)

Buy Order 1 (3rd priority Order Type)

For a marketable incoming sell order (Sell Order 4), using the 200% Order Type:

Stream 1 would be created at an LTR of 200% between Buy Order 3 and Sell Order 4.

Buy Order 2 and Buy Order 1 would continue to rest because Sell Order 4's 200% rate was completed.

For a marketable incoming sell order (Sell Order 5), also using the 200% Order Type:

Stream 2 would be created at an LTR of 30% between Buy Order 2 and Sell Order 5.

Sell Order 5's available LTR is decremented to 170%.

And

Stream 3 would be created at an LTR of 15% between Buy Order 1 and Sell Order 5.

Sell Order 5's available LTR is decremented to 155%.

PureStream Form ATS-N/CA
Exhibit 3

After the creation of Stream 2 & 3, only Sell Order 5 will be resting in the order book with a remaining LTR of 155%. Sell Order 5 is participating in two streams, Stream 2 & Stream 3.

The LTR of each stream:

Stream 1 (Order 3&4) LTR: 200%

Stream 2 (Order 2&5) LTR: 30%

Stream 3 (Order 1&5) LTR: 15%

Given the following three contemporaneously processed trade reports from the consolidated tape:

SIP-reported Trade 1: 1,000 @ \$36.99

SIP-reported Trade 2: 50 @ \$36.9925

SIP-reported Trade 3: 200 @ \$37

The orders in Stream 1 (comprised of Order 3 and Order 4) will receive the following child fills:

Stream 1 Child Fill 1: 2,000 @ 36.99

Stream 1 Child Fill 2: 100 @ 36.9925

Stream 1 Child Fill 3: 400 @ 37

The orders in Stream 2 (comprised of Order 2 and Order 5) will receive the following child fills:

Stream 2 Child Fill 1: 300 @ 36.99

Stream 2 Child Fill 2: 15 @ 36.9925

Stream 2 Child Fill 3: 60 @ 37

The orders in Stream 3 (comprised of Order 1 and Order 5) will receive the following child fills:

Stream 3 Child Fill 1: 150 @ 36.99

Stream 3 Child Fill 2: 8 @ 36.9925

Stream 3 Child Fill 3: 30 @ 37

The aggregated traded volumes in this example are as follows:

SIP Volume: 1,250 shares

PURE ATS Volume: 3,063

Stream 1: 2,500 shares

Order 3: 2,500 shares

Order 4: 2,500 shares

Stream 2: 375 shares

Order 2: 375 shares

Order 5: 375 shares

Stream 3: 188 shares

Order 1: 188 shares

Order 5: 188 shares

Please note that Order 5 participated in two streams, and in aggregate sold 563 shares (375 shares in Stream 2 and 188 shares in Stream 3).

Additional Order Parameters

In the order book, the standard prioritization logic will be impacted when a Subscriber utilizes a HMMP (Human Matched Machine Processed) or PRO (Pre-Routing Optimizer) order instruction (explained in Part III, Item 14.a or imposes a self-match prevention constraint (implemented via a FIX message from the Subscriber). These parameters each limit potential counter-parties for a respective order; otherwise, the standard prioritization logic applies to the impacted orders.

PureStream Form ATS-N/CA
Exhibit 3

Further, Subscribers can route orders (via FIX) with minimum execution quantities (“MEQ”) for LS orders where the Subscriber sets the minimum LTR to be greater than the highest available LTR for all other available Order Types on the ATS. The effect of setting the minimum LTR at this level is to limit potential compatible contra-side orders to only LS orders. Where a Subscriber sets an MEQ for an order, the order will only be matched in the ATS to a contra-side order that can satisfy the MEQ (and is otherwise compatible with the order).

PURE ATS does not support post-only or counter-party segmentation or classification.

Price Limits, Marketability, Protection, and Improvement:

No orders will receive an execution that would violate the order's limit price. In order to optimize the creation of streams, the order book uses minimum marketability thresholds required prior to an order being eligible to match (as described in Part III, Item 7).

There is no price improvement from, nor will the price vary from the price of the trades referenced by the ATS.

Short Sales and Regulation SHO:

The ATS's Subscribers are limited to U.S. registered broker-dealers that are obligated to comply with Regulation SHO Rule 203(b)(1). The ATS will cancel and reject firm and conditional orders subject to Regulation SHO Rule 201. If short sale orders (firm or conditional) have been accepted prior to Rule 201 being triggered, the ATS will cancel the short sale orders back.

Locked and Crossed Markets:

PURE ATS will not execute midpoint blocks (LS to LS) when the market is crossed. PURE ATS will only execute midpoint blocks (LS to LS) when the market is locked if both the buyer and seller specify on the order that they are willing to execute during a locked market. During a (i) locked market or (ii) crossed market lasting less than 1 second, the PURE ATS will reference all SIP-reported trades. During a crossed market lasting longer than 1 second, the PURE ATS will reference SIP-reported trades originating on an exchange but will not reference SIP-reported trades originating on a Trade Reporting Facility (“TRF”).

Time Stamping of Orders and Executions:

Firm and conditional orders are timestamped at the time they are accepted by the system in microseconds. The formation of a stream and each trade fill is also timestamped in microseconds. The ATS will timestamp Subscriber firm and conditional orders in compliance with FINRA time stamp and clock synchronization rules and guidance.

Errors:

PURE has Written Supervisory Procedures regarding errors, and errors will be handled consistent with the firm's error policies. For ATS (not Subscriber) errors, PURE maintains an error account at its Clearing Broker (BAML) to book bona fide errors, and to trade out of them. Key elements of the ATS error policy include the following:

- 1) Errors must be escalated to the CCO immediately;
- 2) Errors must be corrected and documented as soon as practicable;
- 3) The ATS cannot be used to liquidate an error; and
- 4) PURE will not cover losses for Subscribers by treating transactions as errors when they are not.