MIAX PEARL, LLC Rules

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Rule 503. Openings on the Exchange

(a) No change

(b) Opening Process on the Exchange. For the opening of trading of securities by the System, the Opening Process shall occur at or after 9:30 a.m. Eastern Time, if the dissemination of a regular market hours quote or trade (as determined by the Exchange) by the Market for the Underlying Security has occurred. Following the dissemination of a quote or trade in the Market for the Underlying Security (the “First Market Event”) the System will pause for a period of time no longer than one-half second to allow the market place to absorb this information. Or, in the case of a trading halt, the Opening Process shall occur when trading resumes pursuant to Rule 504. Market hours trading shall commence or, in the case of a halted option, resume when the MIAX PEARL Opening Process concludes.

(1) Criteria for the Opening. The opening of trading or resumption of trading after a halt of securities by the System will be dependent on the following criteria, provided the ABBO is not crossed.

   (i) If there is locking or crossing interest[a possible trade] on MIAX PEARL or interest that locks or crosses the NBBO, a Valid Width NBBO must be present.

   (ii) If there is no locking or crossing interest[no trade is possible] on MIAX PEARL and no interest that locks or crosses the NBBO, then the Exchange will open dependent upon one of the following:

       (A) A Valid Width NBBO is present; or

       (B) A certain number of other options exchanges (as determined by the Exchange and posted by MIAX PEARL on its website) have disseminated a firm quote on OPRA; or

       (C) A certain period of time (as determined by the Exchange and posted by MIAX PEARL on its website) has elapsed.

(2) Opening Process Where There is Locking or Crossing Interest[a Possible Trade] on MIAX PEARL or Interest that Locks or Crosses the NBBO.
(i) **Determining the Opening Price.** After the First Market Event has occurred and/or the trading halt has been lifted and the criteria for opening set forth in subsection (1)(i) above has been met, in each case where there are orders or quotes with internally locking or crossing prices, or orders that lock or cross the NBBO, for a particular option series the System will determine a single price at which such option series will be opened (the “Opening Price”). The Opening Price of a series will be the midpoint of the Valid Width NBBO, rounded up if necessary (the “NBBO Midpoint”).

(ii) **Matching Orders and Quotes in the System.** After establishing an Opening Price, orders and quotes in the System that are priced equal to or more aggressively than the Opening Price will be matched based on price-time priority. Matches will occur until there is no remaining volume or there is an imbalance of orders. All orders and quotes or portions thereof that are matched pursuant to the Opening Process will be executed at the Opening Price.

(iii) **Regarding Unexecuted Contracts.** An imbalance of orders on the buy side or sell side may result in orders that are not executed in whole or in part. Such orders will be handled at the conclusion of the Opening Process in time sequence, beginning with the order with the oldest time stamp and may, in whole or in part, be placed on the Book, cancelled, executed, managed in accordance with Rule 515, or routed in accordance with Rule 529.

(iv) **Execution and Reporting.** All Eligible Interest executed in the Opening Process shall be executed at the Opening Price, trade reported anonymously, and disseminated via a national market system plan.

(3) **Opening Process Where There is No Locking or Crossing Interest [Possible Trade] on MIAx PEARL and no Interest that Locks or Crosses the NBBO.** After the First Market Event has occurred and/or the trading halt has been lifted and the criteria for opening set forth in subsection (1)(ii) above has been met, and where there are no contracts in a particular series that would execute at any price the System shall open such options for trading without determining an Opening Price. The System will open such series by disseminating via a national market system plan the Exchange’s best bid and offer among quotes and orders that exist in the System at that time. Orders in the System will be handled at the conclusion of the Opening Process in time sequence, beginning with the order with the oldest time stamp and may, in whole or in part, be placed on the Book, cancelled, executed, managed in accordance with Rule 515, or routed in accordance with Rule 529.

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