Cboe Equities Contingent Closing Auction Joint Test

Reference ID: C2023101601

OVERVIEW

Applicable Cboe Exchanges: BYX Equities, BZX Equities, EDGA Equities, EDGX Equities

In coordination with other equities exchange operators, Cboe BZX Equities Exchange (BZX) will test contingent closing auction procedures on Saturday, November 4, 2023, and Saturday, December 9, 2023. Contingent Closing Auction procedures are applicable in the event a marketplace disruption prevents the primary listing market from executing a closing auction. Industry participants in this test will include Cboe BZX, Nasdaq, NYSE, NYSE American, and NYSE Arca.

TECHNICAL DETAILS

The below contingency closing procedures apply if a marketplace disruption prevents the primary listing exchange from conducting a closing auction.

- If the Exchange determines at or before 3:00 p.m. that it is unable to conduct a Closing Auction in one or more Exchange-listed securities due to a systems or technical issue, the Exchange will designate an alternate exchange for the determination of the official closing price for its listed securities and conduct closing auctions.
- If the Exchange determines after 3:00 p.m. that it is unable to conduct a Closing Auction in one or more Exchange-listed securities due to a systems or technical issue, the Official Closing Price of each such security will be the volume-weighted average price (VWAP) of the consolidated last-sale eligible prices of the last five minutes of trading during Core Trading Hours up to the time that the VWAP is processed.

TEST SCHEDULES

During the November 4, 2023 test, Cboe BZX, Nasdaq, NYSE, and NYSE American primary listed securities Official Closing Price will be calculated using the VWAP price, simulating an event disruption after 3:00 p.m. A closing auction will not occur in the primary listed securities.

Below is the testing schedule for Saturday, November 4, 2023.

<table>
<thead>
<tr>
<th>Time (ET)</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>9 a.m.</td>
<td>Cboe systems available for testing.</td>
</tr>
<tr>
<td>11:05 a.m.</td>
<td>Cboe BZX, Nasdaq, NYSE, and NYSE American systems will cease operating and declare that they are unable to conduct a closing auction.</td>
</tr>
<tr>
<td>11:49 a.m.</td>
<td>CMC match will occur for all non-Cboe BZX listed securities.</td>
</tr>
<tr>
<td>11:05 a.m. – 12 p.m.</td>
<td>Cboe BZX, Nasdaq, NYSE, and NYSE American will reject orders and other UTP Exchanges will continue to trade their primary listed securities.</td>
</tr>
</tbody>
</table>
Consolidated trades will be sent to the SIAC SIP for NYSE, NYSE Arca, NYSE American, and Cboe BZX listed securities. The below primary listed symbols will be focused during the November 4, 2023 test.

Beginning at 12 p.m. The NYSE, NYSE American, NYSE Arca, and Cboe BZX primary listed securities Official Closing Price will be the VWAP of the consolidated last-sale eligible prices of the last five minutes of trading during regular trading hours, including any closing transactions on an exchange and any trade breaks or corrections up to the time the VWAP is processed.

If there were no consolidated last-sale eligible trades in the last five minutes of trading during regular trading hours, the NYSE, NYSE American, NYSE Arca, and Cboe BZX Official Closing Price of such security will be the last consolidated last-sale eligible trade for such security during regular trading hours on that trading day.

If there were no consolidated last-sale eligible trades the NYSE, NYSE American, NYSE Arca, and Cboe BZX Official Closing Price of such security will be the prior day's NYSE, NYSE American, NYSE Arca, and Cboe BZX Official Closing Price.

If no NYSE, NYSE American, NYSE Arca and Cboe BZX Official Closing Price for a security can be determined under the subsections above, the Exchange would not publish an Official Closing Price for such security.

As the Official Closing Prices are received from the SIPs for all non-Cboe BZX listed securities, all matched CMC shares will receive a final price.

Test symbols for November 4, 2023:
- NYSE Listed Securities - F, GOLD, NIO, PFE, and ORCL
- NYSE American Listed Securities - ACU, CVU, LNG, NEWP, and SEB
- NYSE Arca Listed Securities - EEM, DFUS, KOLD, UNG, and XOP
- Cboe BZX Listed Securities - GOVT, IDV, IEFA, UVXY, and VXX

During the December 9, 2023 test, Nasdaq primary listed securities Official Closing Price will be calculated using the VWAP price, simulating an event disruption after 3:00 p.m. A closing auction will not occur in the primary listed securities.

Below is the testing schedule for Saturday, December 9, 2023:

<table>
<thead>
<tr>
<th>Time (ET)</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>9 a.m.</td>
<td>Cboe systems available for testing.</td>
</tr>
<tr>
<td>11:05 a.m.</td>
<td>Nasdaq will cease operating and declare that they are unable to conduct a closing auction.</td>
</tr>
<tr>
<td>11:49 a.m.</td>
<td>CMC match will occur for all non-Cboe BZX listed securities.</td>
</tr>
<tr>
<td>11:05 a.m. – 12 p.m.</td>
<td>Nasdaq will not be available to process orders.</td>
</tr>
<tr>
<td>11:55 a.m. – 12 p.m.</td>
<td>Consolidated trades will be sent to the Nasdaq UTP SIP for Nasdaq listed securities. The below primary listed symbols will be focused during the December 9, 2023 test.</td>
</tr>
</tbody>
</table>

Beginning at 12 p.m. The Nasdaq Official Closing Price will be the VWAP of the consolidated last-sale eligible prices of the last five minutes of trading during regular trading hours, including any closing transactions on an exchange and any trade breaks or corrections up to the time the VWAP is processed.

If there were no consolidated last-sale eligible trades in the last five minutes of trading during regular trading hours, the Nasdaq Official Closing Price of such security will be the last consolidated last-sale eligible trade for such security during regular trading hours on that trading day.

If there were no consolidated last-sale eligible trades the Nasdaq Official Closing Price of such security will be the prior day's Nasdaq Official Closing Price.

If no Nasdaq Official Closing Price for a security can be determined under the subsections above, the Exchange would not publish an Official Closing Price for such security.

As the Official Closing Prices are received from the SIPs for all non-Cboe BZX listed securities, all matched CMC shares will receive a final price.
Test symbols for December 9, 2023:
• Nasdaq Listed Securities - AADR, ASMB, CAKE, PSC, and RICK

ADDITIONAL INFORMATION

Please contact the Cboe Trade Desk for support or with any questions.

We appreciate your business. Our trading community inspires and drives our purpose of building trusted markets.

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