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NYSE Arca Equities, Inc.

**SCHEDULE OF FEES AND CHARGES
 FOR EXCHANGE SERVICES**

NYSE ARCA MARKETPLACE: TRADE RELATED FEES AND CREDITS¹

EXCHANGE TRANSACTIONS

ETP HOLDERS AND MARKET MAKERS²

Round Lots and Odd Lots (Per Share Price \$1.00 or Above)³

<p>Tier 1: For ETP Holders and Market Makers that provide liquidity an average daily share volume per month greater than 55 million shares</p>	<p><u>Tape A and Tape C Securities:</u></p> <p>\$0.0030 per share (credit) for orders that provide liquidity to the Book</p> <p>\$0.0029 per share (fee) for orders that take liquidity from the Book</p> <p>\$0.0029 per share (fee) for orders routed outside the Book to any away market centers other than the NYSE</p> <p>\$0.003 per share (fee) for PO+ orders routed outside the Book to NASDAQ</p> <p>\$0.001 per share (credit) for Mid-Point Passive Liquidity orders providing liquidity to the Book</p> <p>\$0.001 per share (fee) for Mid-Point Passive Liquidity orders removing liquidity from the Book</p> <p>\$0.0007 per share (fee) for Market-On-Close and Limit-On-Close orders executed in the Closing Auction</p> <p><u>Tape A Securities:</u></p>
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¹ Credits will not be applied to Open Orders (e.g., GTC Orders) executed after the trading date on which they were entered. Trade activity on days when the market closes early does not count toward volume tiers.

² These transaction fees do not apply to: (1) Directed Orders, regardless of account type, that are matched within the Directed Order Process; (2) Directed Orders for the account of a retail public customer that are executed partially or in their entirety via the Directed Order, Display Order, Working Order, and Tracking Order processes (however, any unfilled or residual portion of a retail customer's order that is routed away and executed by another market center or participant will incur this transaction fee); (3) orders executed in the Opening Auction and Market Order Auction; (4) Cross Orders; and (5) participants in the Nasdaq UTP Plan that transmit orders via telephone.

³ Rebates will not be paid for executions in securities priced under \$1.00.

	<p>\$0.0021[18] per share (fee) for orders in Tape A securities routed outside the Book to the NYSE</p> <p>\$0.0019[16] per share (fee) for Primary Sweep Orders in Tape A securities routed outside the book to the NYSE</p> <p>\$0.0021[18] per share (fee) for Primary Only Plus (“PO+”) Orders routed to the NYSE that remove liquidity.</p> <p>\$0.0013[0] per share (credit) for PO+ Orders that provide liquidity to the NYSE</p> <p>\$0.0007 per share (fee) for PO and PO+ Orders routed to the NYSE that execute in the opening or closing auction</p> <p><u>Tape B Securities:</u></p> <p>\$0.0023 per share (credit) for orders that provide liquidity to the Book</p> <p>\$0.0028 per share (fee) for orders that take liquidity from the Book</p> <p>\$0.0029 per share (fee) for orders routed outside the Book to any away market centers</p> <p>\$0.0015 per share (credit) for PO and PO+ orders routed to Amex that provide liquidity to the NYSE Amex Book</p> <p>\$0.0025 per share (fee) for PO and PO+ orders routed to Amex that remove liquidity from the NYSE Amex Book</p> <p>\$0.003 per share (fee) for PO+ orders routed outside the Book to NASDAQ</p> <p>\$0.001 per share (credit) for Mid-Point Passive Liquidity orders providing liquidity to the Book</p> <p>\$0.001 per share (fee) for Mid-Point Passive Liquidity orders removing liquidity from the Book</p> <p>\$0.0007 per share (fee) for orders executed in the Opening or Market Order Auction, and for Market-On-Close and Limit-On-Close orders executed in the Closing Auction in NYSE Arca primary listed securities (includes all ETFs/ETNs)</p> <p>\$0.0007 per share (fee) for PO and PO+ Orders routed to NYSE Amex that execute in the opening or closing auction</p>
<p>Tier 2: For ETP Holders and Market Makers that provide liquidity an average daily share volume per month greater than 25 million shares</p>	<p><u>Tape A and Tape C Securities:</u></p> <p>\$0.0029 per share (credit) for orders that provide liquidity to the Book</p> <p>\$0.0030 per share (fee) for orders that take liquidity from the Book</p> <p>\$0.0030 per share (fee) for orders routed outside the Book to any away market centers other than the NYSE</p>

	<p>\$0.003 per share (fee) for PO+ orders routed outside the Book to NASDAQ</p> <p>\$0.001 per share (credit) for Mid-Point Passive Liquidity orders providing liquidity to the Book</p> <p>\$0.001 per share (fee) for Mid-Point Passive Liquidity orders removing liquidity from the Book</p> <p>\$0.0007 per share (fee) for Market-On-Close and Limit-On-Close orders executed in the Closing Auction</p> <p><u>Tape A Securities:</u></p> <p>\$0.0021[18] per share (fee) for orders in Tape A securities routed outside the Book to the NYSE</p> <p>\$0.0019[16] per share (fee) for Primary Sweep Orders in Tape A securities routed outside the book to the NYSE</p> <p>\$0.0021[18] per share (fee) for PO+ Orders routed to the NYSE that remove liquidity.</p> <p>\$0.0013[10] per share (credit) for PO+ Orders that provide liquidity to the NYSE</p> <p>\$0.0007 per share (fee) for PO and PO+ Orders routed to the NYSE that execute in the opening or closing auction</p> <p><u>Tape B Securities:</u></p> <p>\$0.0022 per share (credit) for orders that provide liquidity to the Book</p> <p>\$0.0028 per share (fee) for orders that take liquidity from the Book</p> <p>\$0.0029 per share (fee) for orders routed outside the Book to any away market centers</p> <p>\$0.0015 per share (credit) for PO and PO+ orders routed to Amex that provide liquidity to the NYSE Amex Book</p> <p>\$0.0025 per share (fee) for PO and PO+ orders routed to Amex that remove liquidity from the NYSE Amex Book</p> <p>\$0.003 per share (fee) for PO+ orders routed outside the Book to NASDAQ</p> <p>\$0.001 per share (credit) for Mid-Point Passive Liquidity orders providing liquidity to the Book</p> <p>\$0.001 per share (fee) for Mid-Point Passive Liquidity orders removing liquidity from the Book</p> <p>\$0.0007 per share (fee) for orders executed in the Opening or Market Order Auction, and for Market-On-Close and Limit-On-Close orders</p>
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	<p>executed in the Closing Auction in NYSE Arca primary listed securities (includes all ETFs/ETNs)</p> <p>\$0.0007 per share (fee) for PO and PO+ Orders routed to NYSE Amex that execute in the opening or closing auction</p>
<p>Basic Rates (applicable when tier rates do not apply)</p>	<p><u>Tape A Securities:</u></p> <p>\$0.0021 per share (credit) for orders that provide liquidity to the Book</p> <p>\$0.003 per share (fee) for orders that take liquidity from the Book</p> <p>\$0.003 per share (fee) for orders routed outside the Book to any away market centers other than the NYSE</p> <p>\$0.0023 per share (fee) for orders routed outside the Book to the NYSE</p> <p>\$0.0019[16] per share (fee) for Primary Sweep Orders in Tape A securities routed outside the book to the NYSE</p> <p>\$0.001 per share (credit) for Mid-Point Passive Liquidity orders providing liquidity to the Book</p> <p>\$0.001 per share (fee) for Mid-Point Passive Liquidity orders removing liquidity from the Book</p> <p>\$0.0021[18] per share (fee) for PO+ Orders routed to the NYSE that remove liquidity.</p> <p>\$0.0013[10] per share (credit) for PO+ Orders that provide liquidity to the NYSE</p> <p>\$0.0007 per share (fee) for PO and PO+ Orders routed to the NYSE that execute in the opening or closing auction</p> <p><u>Tape B Securities:</u></p> <p>\$0.0022 per share (credit) for orders that provide liquidity to the Book</p> <p>\$0.003 per share (fee) for orders that take liquidity from the Book</p> <p>\$0.0035 per share (fee) for orders routed outside the Book to any away market centers</p> <p>\$0.0015 per share (credit) for PO and PO+ orders routed to Amex that provide liquidity to the NYSE Amex Book</p> <p>\$0.0025 per share (fee) for PO and PO+ orders routed to Amex that remove liquidity from the NYSE Amex Book</p> <p>\$0.001 per share (credit) for Mid-Point Passive Liquidity orders providing liquidity to the Book</p> <p>\$0.001 per share (fee) for Mid-Point Passive Liquidity orders removing liquidity from the Book</p>

	<p>\$0.0007 per share (fee) for orders executed in the Opening or Market Order Auction, and for Market-On-Close and Limit-On-Close orders executed in the Closing Auction in NYSE Arca primary listed securities (includes all ETFs/ETNs)</p> <p>\$0.0007 per share (fee) for PO and PO+ Orders routed to NYSE Amex that execute in the opening or closing auction</p> <p><u>Tape C Securities:</u></p> <p>\$0.0021 per share (credit) for orders that provide liquidity to the Book</p> <p>\$0.003 per share (fee) for orders that take liquidity from the Book</p> <p>\$0.0035 per share (fee) for orders routed outside the Book to any away market centers</p> <p>\$0.001 per share (credit) for Mid-Point Passive Liquidity orders providing liquidity to the Book</p> <p>\$0.001 per share (fee) for Mid-Point Passive Liquidity orders removing liquidity from the Book</p> <p>\$0.0007 per share (fee) for Market-On-Close and Limit-On-Close orders executed in the Closing Auction</p>
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