

**Exhibit 5**New text is underlined;

Deleted text is in [brackets]

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# MIAX Options Fee Schedule

## 1) Transaction Fees

### a) Exchange Fees

#### i) Market Maker Transaction Fees

##### Market Maker Sliding Scale

Origin	Tier	Percentage Thresholds of National Market Maker Volume	Per Contract Fee for Penny Classes	Per Contract Fee for Non-Penny Classes
All MIAX Market Makers <sup>1</sup>	1	0.00% - 0.05%	\$0.25	\$0.29
	2	Above 0.05% - 0.50%	\$0.19	\$0.23
	3	Above 0.50% - 1.00%	\$0.12	\$0.16
	4	Above 1.00% - 1.50%	\$0.07	\$0.11
	5	Above 1.50%	\$0.05	\$0.09

Volume thresholds are based on the total national Market Maker volume of any options classes with traded volume on MIAX during the month (excluding QCC Orders). The Market Maker Sliding Scale applies to MIAX Market Maker (RMM, LMM, DLMM, PLMM, DPLMM) transaction fees in all products except mini-options. MIAX Market Makers will be assessed a \$0.02 per executed contract fee for transactions in mini-options. A MIAX Market Maker's standard per contract transaction fee shall be reduced to the fees shown on the sliding scale as the MIAX Market Maker reaches the volume thresholds shown on the sliding scale in a month. The Exchange will aggregate the trading activity of separate MIAX Market Maker firms for purposes of the sliding scale if there is at least 75% common ownership between the firms as reflected on each firm's Form BD, Schedule A. Any Member or its affiliates of at least 75% common ownership between the firms as reflected on each firm's Form BD, Schedule A, that qualifies for Priority Customer Rebate Program volume tiers 3[, ] or 4[, ] or 5] will be assessed \$0.23 per contract for tier 1, \$0.17 per contract for tier 2, \$0.10 per contract for tier 3, \$0.05 per contract for tier 4, and \$0.03 per contract for tier 5 for transactions in standard options in Penny Pilot Classes. Any Member or its affiliates of at least 75% common ownership between the firms as reflected on each firm's Form BD, Schedule A, that qualifies for Priority Customer Rebate Program volume tiers 3[, ] or 4[, ] or 5] will be assessed \$0.27 per contract for tier 1, \$0.21 per contract for tier 2, \$0.14 per contract for tier 3, \$0.09 per contract for tier 4, and \$0.07 per contract for tier 5 for transactions in standard options in non-Penny Pilot classes.

<sup>1</sup> See MIAX Rule 100 for the definition of Registered Market Maker ("RMM"), Primary Lead Market Maker ("PLMM"), Lead Market Maker ("LMM"). Directed Order Lead Market Maker ("DLMM") and Directed Primary Lead Market Maker ("DPLMM") is a party to a transaction being allocated to the LMM or PLMM and is the result of an order that has been directed to the LMM or PLMM.

## ii) Other Market Participant Transaction Fees

Types of Other Market Participants	Standard Options Transaction Fee (per executed contract)		Mini Options Transaction Fee (per executed contract)		These fees will apply to all option classes traded on MIAX
	Penny Classes	Non-Penny Classes	Penny Classes	Non-Penny Classes	
<i>Priority Customer</i> <sup>2</sup>	\$ 0.00	\$ 0.00	\$ 0.000	\$ 0.000	There is no fee assessed to an Electronic Exchange Member (an "EEM," as defined in MIAX Rule 100) that enters an order that is executed for the account of a Priority Customer.
<i>Public Customer that is Not a Priority Customer</i>	\$ 0.47 <sup>3</sup>	\$ 0.62 <sup>4</sup>	\$ 0.05	\$ 0.06	This fee is assessed to an EEM that enters an order that is executed for the account of a Public Customer <sup>5</sup> that does not meet the criteria for designation as a Priority Customer. This fee will also be charged to an EEM that enters an order for the account of a Public Customer that has elected to be treated as a Voluntary Professional. <sup>6</sup>
<i>Non-MIAX Market Maker</i>	\$0.47 <sup>7</sup>	\$ 0.62 <sup>8</sup>	\$ 0.045	\$ 0.06	This fee is assessed to an EEM that enters an order that is executed for the account of a non-MIAX market maker. A non-MIAX market maker is a market maker registered as such on another options exchange.

<sup>2</sup> The term "Priority Customer" means a person or entity that (i) is not a broker or dealer in securities, and (ii) does not place more than 390 orders in listed options per day on average during a calendar month for its own beneficial account(s). See Exchange Rule 100.

<sup>3</sup> Any Member or its affiliates of at least 75% common ownership between the firms as reflected on each firm's Form BD, Schedule A, that qualifies for Priority Customer Rebate Program volume tiers 3[, ] or 4[, ] or 5] will be assessed \$0.45 per contract for standard options.

<sup>4</sup> Any Member or its affiliates of at least 75% common ownership between the firms as reflected on each firm's Form BD, Schedule A, that qualifies for Priority Customer Rebate Program volume tiers 3[, ] or 4[, ] or 5] will be assessed \$0.60 per contract for standard options.

<sup>5</sup> The term "Public Customer" means a person that is not a broker or dealer in securities. See Exchange Rule 100.

<sup>6</sup> The term "Voluntary Professional" means any Public Customer that elects, in writing, to be treated in the same manner as a broker or dealer in securities for purposes of Rule 514, as well as the Exchange's schedule of fees. See Exchange Rule 100.

<sup>7</sup> Orders executed for the account of non-MIAX market makers will be assessed \$0.55 per contract in options overlying EEM, GLD, IWM, QQQ, and SPY. Any Member or its affiliates of at least 75% common ownership between the firms as reflected on each firm's Form BD, Schedule A, that qualifies for Priority Customer Rebate Program volume tiers 3[, ] or 4[, ] or 5] will be assessed \$0.45 per contract for standard options in all options classes except for EEM, GLD, IWM, QQQ, and SPY, which will be assessed \$0.53 per contract.

<sup>8</sup> Any Member or its affiliates of at least 75% common ownership between the firms as reflected on each firm's Form BD, Schedule A, that qualifies for Priority Customer Rebate Program volume tiers 3[, ] or 4[, ] or 5] will be assessed \$0.60 per contract for standard options.

Types of Other Market Participants	Standard Options Transaction Fee (per executed contract)		Mini Options Transaction Fee (per executed contract)		These fees will apply to all option classes traded on MIAX
	Penny Classes	Non-Penny Classes	Penny Classes	Non-Penny Classes	
<i>Non-Member Broker-Dealer</i>	\$ 0.47 <sup>9</sup>	\$ 0.62 <sup>10</sup>	\$ 0.045	\$ 0.06	This fee is assessed to an EEM that enters an order that (i) is executed for the account of a non-Member Broker-Dealer, and (ii) is identified by the EEM for clearing in the Options Clearing Corporation (“OCC”) “customer” range. A non-Member Broker-Dealer is a broker-dealer that is not a member of the OCC, and that is not registered as a Member at MIAX or another options exchange.
<i>Firm</i>	\$ 0.37 <sup>11</sup>	\$ 0.42 <sup>12</sup>	\$ 0.04	\$ 0.04	This fee is assessed to an EEM that enters an order that is executed for an account identified by the EEM for clearing in the OCC “Firm” range.

<sup>9</sup> Any Member or its affiliates of at least 75% common ownership between the firms as reflected on each firm’s Form BD, Schedule A, that qualifies for Priority Customer Rebate Program volume tiers 3[, ] or 4[, ] or 5] will be assessed \$0.45 per contract for standard options.

<sup>10</sup> Any Member or its affiliates of at least 75% common ownership between the firms as reflected on each firm’s Form BD, Schedule A, that qualifies for Priority Customer Rebate Program volume tiers 3[, ] or 4[, ] or 5] will be assessed \$0.60 per contract for standard options.

<sup>11</sup> Any Member or its affiliates of at least 75% common ownership between the firms as reflected on each firm’s Form BD, Schedule A, that qualifies for Priority Customer Rebate Program volume tiers 3[, ] or 4[, ] or 5] will be assessed \$0.35 per contract for standard options.

<sup>12</sup> Any Member or its affiliates of at least 75% common ownership between the firms as reflected on each firm’s Form BD, Schedule A, that qualifies for Priority Customer Rebate Program volume tiers 3[, ] or 4[, ] or 5] will be assessed \$0.40 per contract for standard options.

## iii) Priority Customer Rebate Program

Origin	Tier	Percentage Thresholds of National Customer Volume in Multiply-Listed Options Classes Listed on MIAX (Monthly)	Per Contract Credit	Per Contract Credit in MIAX Select Symbols <sup>13</sup>	Per Contract Credit for PRIME Agency Order
Priority Customer	1	0.00% - 0.50 [40]%	\$0.00	\$0.00	\$0.10
	2	Above 0.50 [40]% - 1.00 [0.75]%	\$0.10	\$0.10	\$0.10
	3	Above 1.00 [0.75]% - 1.75%	\$0.15	\$0.20	\$0.10
	4	Above 1.75% [ - 2.40%]	\$0.17 <sup>14</sup>	\$0.20	\$0.10
	[5]	[Above 2.40%]	[\$0.18]	[\$0.20]	[\$0.10]

MIAX shall credit each Member the per contract amount resulting from each Priority Customer order transmitted by that Member which is executed electronically on the Exchange in all multiply-listed option classes (excluding QCC Orders, mini-options, Priority Customer-to-Priority Customer Orders, PRIME AOC Responses, PRIME Contra-side Orders, PRIME Orders for which both the Agency and Contra-side Order are Priority Customers, and executions related to contracts that are routed to one or more exchanges in connection with the Options Order Protection and Locked/Crossed Market Plan referenced in MIAX Rule 1400), provided the Member meets certain percentage thresholds in a month as described in the Priority Customer Rebate Program table. For each Priority Customer order transmitted by that Member which is executed electronically on the Exchange in MIAX Select Symbols, MIAX shall credit each member at the separate per contract rate for MIAX Select Symbols. For each Priority Customer order submitted into the PRIME Auction as a PRIME Agency Order, MIAX shall credit each member at the separate per contract rate for PRIME Agency Orders; however, no rebates will be paid if the PRIME Agency Order executes against a Contra-side Order which is also a Priority Customer. This payment will be calculated from the first executed contract at the applicable threshold per contract credit with rebate payments made at the highest achieved volume tier for each contract traded in that month. The percentage thresholds are calculated based on the percentage of national customer volume in multiply-listed options classes listed on MIAX entered and executed over the course of the month (excluding QCC Orders, Priority Customer-to-Priority Customer Orders, PRIME AOC Responses, PRIME Contra-side Orders, PRIME Orders for which both the Agency and Contra-side Order are Priority Customers). Volume will be recorded for and credits will be delivered to the Member Firm that submits the order to MIAX. MIAX will aggregate the contracts resulting from Priority Customer orders transmitted and executed electronically on MIAX from affiliated Members for purposes of the thresholds described in the Priority Customer Rebate Program table,

<sup>13</sup> The term "MIAX Select Symbols" means options overlying AA, AAL, AAPL, AIG, AMAT, AMD, AMZN, BA, BABA, BBRY, BIDU, BP, C, CAT, CBS, CELG, CLF, CVX, DAL, EBAY, EEM, FB, FCX, GE, GILD, GLD, GM, GOOGL, GPRO, HAL, HTZ, INTC, IWM, JCP, JNJ, JPM, KMI, KO, MO, MRK, NFLX, NOK, NQ, ORCL, PBR, PFE, PG, QCOM, QQQ, RIG, S, SPY, SUNE, T, TSLA, USO, VALE, VXX, WBA, WFC, WMB, WY, X, XHB, XLE, XLF, XLP, XOM, XOP and YHOO.

<sup>14</sup> The \$0.17 per contract credit described in Tier 4 will be applied to each contract traded in non-Select Symbols in that month beginning with the first contract executed in a particular month if the Tier 4 volume threshold is achieved. In addition to the \$0.17 rebate, a supplemental rebate of \$0.03 per contract will be applied to contracts executed in excess of 1.75% of the monthly national volume.

provided there is at least 75% common ownership between the firms as reflected on each firm's Form BD, Schedule A. Any Member or its affiliates of at least 75% common ownership between the firms as reflected on each firm's Form BD, Schedule A, that qualifies for Priority Customer Rebate Program volume tiers 3[, ] or 4[, ] or 5] will be credited an additional \$0.02 per contract for each Priority Customer order executed in the PRIME Auction as a PRIME Agency Order over a threshold of 1,500,000 contracts in a month (excluding QCC Orders, mini-options, Priority Customer-to-Priority Customer Orders, PRIME AOC Responses, PRIME Contra-side Orders, PRIME Orders for which both the Agency and Contra-side Order are Priority Customers, and executions related to contracts that are routed to one or more exchanges in connection with the Options Order Protection and Locked/Crossed Market Plan referenced in MIAX Rule 1400); volume will be recorded for and credits will be delivered to the Member Firm that submits the order to MIAX. In the event of a MIAX System outage or other interruption of electronic trading on MIAX, the Exchange will adjust the national customer volume in multiply-listed options for the duration of the outage. A Member may request to receive its credit under the Priority Customer Rebate Program as a separate direct payment.

#### iv) MIAX Price Improvement Mechanism ("PRIME") Fees

Types of Market Participants	PRIME Order		Responder to PRIME Auction		PRIME Break-up	
	Per Contract Fee for Agency Order	Per Contract Fee for Contra-side Order	Per Contract Fee for Penny Classes	Per Contract Fee for Non-Penny Classes	Per Contract Credit for Penny Classes	Per Contract Credit for Non-Penny Classes
<i>Priority Customer</i>	\$ 0.00	\$ 0.00	\$ 0.49	\$ 0.94	\$ 0.25	\$ 0.60
<i>Public Customer that is Not a Priority Customer</i>	\$ 0.30	\$ 0.05	\$ 0.49	\$ 0.94	\$ 0.25	\$ 0.60
<i>MIAX Market Maker</i>	\$ 0.30	\$ 0.05	\$ 0.49	\$ 0.94	\$ 0.25	\$ 0.60
<i>Non-MIAX Market Maker</i>	\$ 0.30	\$ 0.05	\$ 0.49	\$ 0.94	\$ 0.25	\$ 0.60
<i>Non-Member Broker-Dealer</i>	\$ 0.30	\$ 0.05	\$ 0.49	\$ 0.94	\$ 0.25	\$ 0.60
<i>Firm</i>	\$ 0.30	\$ 0.05	\$ 0.49	\$ 0.94	\$ 0.25	\$ 0.60

MIAX will apply the PRIME Break-up credit to the EEM that submitted the PRIME Order for contracts that are submitted to the PRIME Auction that trade with a PRIME AOC Response. The applicable fee for PRIME Orders will be applied to any contracts for which a credit is provided. Transaction fees in mini-options will be 1/10th of the standard per contract fee or rebate described in the table above for the PRIME Auction. MIAX will assess the standard transaction fees to a PRIME AOC Response if they execute against unrelated orders. Any Member or its affiliates of at least 75% common ownership between the firms as reflected on each firm's Form BD, Schedule A, that qualifies for Priority Customer Rebate Program volume tiers 3[, ] or 4[, ] or 5] will be assessed a PRIME AOC Response fee of \$0.45 per contract for standard options in Penny Pilot classes. Any Member or its affiliates of at least 75% common ownership between the firms as reflected on each firm's Form BD, Schedule A, that qualifies for Priority Customer Rebate Program volume

tiers 3[,] or 4[, or 5] will be assessed a PRIME AOC Response fee of \$0.90 per contract for standard options in non-Penny Pilot classes.

#### v) QCC Fees

Types of Market Participants	QCC Order		
	Per Contract Fee for Initiator	Per Contract Fee for Contra-side	Per Contract Rebate for Initiator
<i>Priority Customer</i>	\$ 0.00	\$ 0.00	\$ 0.10
<i>Public Customer that is Not a Priority Customer</i>	\$ 0.15	\$ 0.15	\$ 0.10
<i>MIAX Market Maker</i>	\$ 0.15	\$ 0.15	\$ 0.10
<i>Non-MIAX Market Maker</i>	\$ 0.15	\$ 0.15	\$ 0.10
<i>Non-Member Broker-Dealer</i>	\$ 0.15	\$ 0.15	\$ 0.10
<i>Firm</i>	\$ 0.15	\$ 0.15	\$ 0.10

Rebates will be delivered to the Member firm that enters the order into the MIAX system, but will only be paid on the initiating side of the QCC transaction. However, no rebates will be paid for QCC transactions for which both the initiator and contra-side orders are Priority Customers. A QCC transaction is comprised of an ‘initiating order’ to buy (sell) at least 1000 contracts or 10,000 mini-option contracts, coupled with a contra-side order to sell (buy) an equal number of contracts. QCC orders comprised of mini-contracts will be assessed QCC fees and afforded rebates equal to 10% of the fees and rebates applicable to QCC Orders comprised of standard option contracts.

#### b) Marketing Fee

MIAX will assess a Marketing Fee to all Market Makers for contracts, including mini options, they execute in their assigned classes when the contra-party to the execution is a Priority Customer. MIAX will not assess a Marketing Fee to Market Makers for contracts executed as a PRIME Agency Order, Contra-side Order, Qualified Contingent Cross Order, or a PRIME AOC Response in the PRIME Auction; unless, it executes against an unrelated order.

MIAX will assess an additional \$0.12 per contract Posted Liquidity Marketing Fee to all Market Makers for any standard options overlying EEM, GLD, IWM, QQQ, and SPY that Market Makers execute in their assigned class when the contra-party to the execution is a Priority Customer and the Priority Customer order was posted on the MIAX Book at the time of the execution. MIAX will not assess the additional Posted Liquidity Marketing Fee to Market Makers for contracts executed as a PRIME Agency Order, Contra-side Order, Qualified Contingent Cross Order, or a PRIME AOC Response in the PRIME Auction. MIAX will also not assess the additional Posted Liquidity Marketing Fee to Market Makers for contracts executed pursuant to a Liquidity Refresh Pause, route timer, or during the Opening Process.

Members that are assigned as PLMMs and LMMs will have a Marketing Fee “pool” into which the Exchange will deposit the applicable per-contract Marketing Fee. For orders directed to PLMMs and LMMs, applicable Marketing Fees are allocated to the PLMM’s or LMM’s Marketing Fee “pool.” For non-directed orders, applicable Marketing Fees are allocated to the PLMM’s Marketing Fee “pool.” All Market Makers that participated in such transactions will pay the applicable Marketing Fee to the Exchange, which will allocate such funds to the Member that controls the distribution of the Marketing Fee “pool.” Each month the

Member will submit written instructions to MIAX describing how MIAX is to distribute the Marketing Fees in the “pool” to Electronic Exchange Members identified by the Member.

Undispersed Marketing Fees will be reimbursed to Market Makers that contributed to the “pool” based upon their pro-rata portion of the entire amount of Marketing Fees collected on a three month rolling schedule.

Amount of Marketing Fee Assessed	Option Classes
<b>\$0.70</b> <b>(per contract)</b>	Transactions in Standard Option Classes that are not in the Penny Pilot Program
<b>\$0.25<sup>[14]15</sup></b> <b>(per contract)</b>	Transactions in Standard Option Classes that are in the Penny Pilot Program (a List of those Standard Option Classes in the Penny Pilot Program is available on the MIAX Website)
<b>\$0.070</b> <b>(per contract)</b>	Transactions in Mini Options where the corresponding Standard Option is not in the Penny Pilot Program
<b>\$0.025</b> <b>(per contract)</b>	Transactions in Mini Options where the corresponding Standard Option is in the Penny Pilot Program (a List of those Standard Option Classes in the Penny Pilot Program is available on the MIAX Website)

### c) Fees and Rebates for Customer Orders Routed to Another Options Exchange

MIAX will assess a Routing Fee to market participants on all Public Customer orders routed to and executed on an away market that is equal to the amount charged by the away market to which such orders were routed and executed. MIAX will also pay any rebate offered by an away market. Such market participants will also be assessed a Fixed Fee Surcharge by MIAX, which is added to the fee charged, or netted against the rebate paid, by an away market.

#### **Fixed Fee Surcharge**

\$0.10 per contract in addition to the actual transaction fee assessed, or less the rebate paid, by the away exchange. The Fixed Fee Surcharge applies to both Mini and Standard Option contracts.

<sup>[14]15</sup> As described in detail above, the Exchange will assess an additional \$0.12 per contract Posted Liquidity Marketing Fee to all Market Makers for any standard options overlying EEM, GLD, IWM, QQQ, and SPY that Market Makers execute in their assigned class when the contra-party to the execution is a Priority Customer and the Priority Customer order was posted on the MIAX Book at the time of the execution.

## 2) Regulatory Fees

### a) Sales Value Fee

**Current Fee Rate: Defined amount per \$1,000,000 of the aggregate dollar amount of covered sales.**

The Sales Value Fee<sup>[15]16</sup> is assessed by the Exchange to each Member for sales on the Exchange for which the Exchange is obligated to pay a fee to the SEC pursuant to Section 31 of the Exchange Act. The Sales Value Fee is equal to the Section 31 fee rate multiplied by the Member's aggregate dollar amount of covered sales resulting from options transactions occurring on the Exchange during any computational period. To the extent there may be any excess monies collected under this rule, the Exchange may retain those monies to help fund general operating expenses. The sales transactions to which the fee applies are sales of options (other than options on a security index) and the sales of securities resulting from the exercise of physical-delivery options.

Sales Value Fee	Per Executed Sell Contract side and Sales of Securities Resulting from the Exercise of Physical Delivery Options (per million dollars in notional value)
All Classes	Rate set annually and sometimes adjusted semi-annually by the SEC. See <a href="http://www.sec.gov/divisions/marketreg/sec31info.htm">http://www.sec.gov/divisions/marketreg/sec31info.htm</a> for the current rate

### b) Options Regulatory Fee

The per-contract Options Regulatory Fee ("ORF") is assessed by MIAX to each MIAX Member for all options transactions, including Mini Options, executed and cleared, or simply cleared by the Member that are cleared by OCC in the "customer" range, regardless of the exchange on which the transaction occurs. The ORF is collected indirectly from Members through their clearing firms by OCC on behalf of MIAX. The Exchange may only increase or decrease the Options Regulatory Fee semi-annually, and any such fee change will be effective on the first business day of February or August. The Exchange will notify participants via a Regulatory Circular of any change in the amount of the fee at least 30 calendar days prior to the effective date of the change.

Options Regulatory Fee (ORF)	Per Executed Contract side
All Classes	\$0.0045

<sup>[15]16</sup> For a detailed description of the Sales Value Fee, see MIAX Rule 1207.



### c) Web CRD Fees

The following fees will be collected and retained by FINRA through the Web Central Registration Depository (CRD<sup>SM</sup>) registration system for the registration of associated persons of Electronic Exchange Members and Market Maker organizations that are not also FINRA members:

#### GENERAL REGISTRATION FEES:

\$100.00	FINRA CRD Processing Fee <sup>[16]17</sup>
\$110.00	FINRA Disclosure Processing Fee <sup>[17]18</sup> (Form U4, Form U5, Form BD & amendments)
\$45.00	FINRA Annual System Processing Fee assessed only during Renewals

#### FINRA Fingerprint Card Processing Fees:

\$29.50	First card submission (electronic)
\$44.50	First card submission (hard copy)
\$15.00	Second card submission (electronic)
\$30.00	Second card submission (hard copy)
\$29.50	Third card submission (electronic)
\$44.50	Third card submission (hard copy)
\$30.00	FINRA Processing Fee for Fingerprint Results Submitted by Other SROs
\$00.00	MIAX Initial Registration Fee (Individual)
\$00.00	MIAX Annual Individual Renewal Fee
\$00.00	MIAX Transfer Fee
\$00.00	MIAX Termination Fee
\$00.00	MIAX Broker Dealer Registration Fee
\$00.00	MIAX Broker Dealer Renewal Fee

#### Continuing Education Fees<sup>[18]19</sup>

\$100.00	Continuing Education Fee for All Registrations except the Series 56
\$60.00	Continuing Education Fee for Series 56

#### Qualification Examination Fee

\$195.00	Series 56 Examination Fee
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<sup>[16]17</sup> For all Initial, Transfer, Relicense, and Dual Registration Form U4 filings. This fee is assessed when a non-FINRA firm (i.e., a firm that is not a member of FINRA) submits its first Initial, Transfer, Relicense, or Dual Registration Form U4 filing on behalf of a registered person.

<sup>[17]18</sup> For all registration, transfer, or termination filings with new or amended disclosure information or that require certification, as well as any amendment to disclosure information.

<sup>[18]19</sup> The session fee will be assessed to each individual who is required to complete the Regulatory Element of the Continuing Education Requirements pursuant to MIAX Rule 1304.

### 3) Membership Fees

#### a) Application for MIAX Membership (One-Time Fee)

Type of Membership	Application Fee
Electronic Exchange Member	\$2,500.00
Market Maker	\$3,000.00

#### b) Monthly Trading Permit Fee

MIAX will issue Trading Permits<sup>[19]20</sup> to Members that confer the ability to transact on MIAX. Members receiving Trading Permits during a particular calendar month will be assessed Trading Permit Fees according to the schedules below, except that the calculation of the Trading Permit fee for the first month in which the Trading Permit is issued will be pro-rated based on the number of trading days on which the Trading Permit was in effect divided by the total number of trading days in that month multiplied by the monthly rate.

Type of Trading Permit	Monthly MIAX Trading Permit Fee
Electronic Exchange Member	\$1,500.00

Type of Trading Permit	Monthly MIAX Trading Permit Fee	MM Assignments (the lesser of the applicable measurements below)	
		Per Class	% of National Average Daily Volume
Market Maker (includes RMM, LMM, PLMM)	\$7,000.00	Up to 10 Classes	Up to 20% of Classes by volume
	\$12,000.00	Up to 40 Classes	Up to 35% of Classes by volume
	\$17,000.00	Up to 100 Classes	Up to 50% of Classes by volume
	\$22,000.00	Over 100 Classes	Over 50% of Classes by volume up to all Classes listed on MIAX

For the calculation of the monthly MM Trading Permit Fees, the number of classes is defined as the greatest number of classes the MM was assigned to quote in on any given day within the calendar month and the class volume percentage is based on the total national average daily volume in classes listed on MIAX in the prior calendar quarter. Newly listed option classes are excluded from the calculation of the monthly MM Trading Permit Fee until the calendar quarter following their listing, at which time the newly listed option classes will be included in both the per class count and the percentage of total national average daily volume. The Exchange will assess MIAX Market Makers the monthly MM Trading Permit Fee based on the greatest number of classes listed on MIAX that the MIAX Market Maker was assigned to quote in on any given day within a calendar month and the applicable fee rate that is the lesser of either the per class basis or percentage of total national average daily volume measurement. For example, if MM1 elects to quote the top 40 option

<sup>[19]20</sup>

For a complete description of MIAX Trading Permits, see MIAX Rule 200.

classes which consist of 58% of the total national average daily volume in the prior calendar quarter, the Exchange would assess \$12,000 to MM1 for the month which is the lesser of 'up to 40 classes' and 'over 50% of classes by volume up to all classes listed on MIAX'. If MM2 elects to quote the bottom 1000 option classes which consist of 10% of the total national average daily volume in the prior quarter, the Exchange would assess \$7,000 to MM2 for the month which is the lesser of 'over 100 classes' and 'up to 20% of classes by volume'.

## 4) Testing and Certification Fees

### a) Member Application Programming Interface (API) Testing and Certification Fee

Type of Member	API Testing and Certification Fee
Electronic Exchange Member	\$1,000.00
Market Maker	\$2,500.00

Member API Testing and Certification fees will be assessed initially per API and each time an Electronic Exchange Member or Market Maker initiates a change to its system that requires testing and certification. API Testing and Certification Fees will not be assessed in situations where the Exchange initiates a change to the Exchange's system that requires testing and certification.

### b) Non-Member API Testing and Certification Fee

Non-Member	API Testing and Certification Fee
Third Party Vendors <sup>[20]21</sup> and Service Bureaus <sup>[21]22</sup> and other non-Members	\$1,200.00

Non-Member API Testing and Certification fees will be assessed initially per API and each time a Third Party Vendor, Service Bureau, or other non-Member initiates a change to its system that requires testing and certification. API Testing and Certification Fees will not be assessed in situations where the Exchange initiates a change to the Exchange's system that requires testing and certification.

<sup>[20]21</sup> Third Party Vendors are subscribers of MIAX's market and other data feeds, which they in turn use for redistribution purposes.

<sup>[21]22</sup> A Service Bureau is a technology provider that offers and supplies technology and technology services to a trading firm that does not have its own proprietary system.

**c) Member Network Connectivity Testing and Certification Fee**

Type of Member	1 Gigabit Fee Per Connection	10 Gigabit Fee Per Connection
Individual Firm	\$1,000.00	\$4,000.00

Member Network Connectivity Testing and Certification fees will be assessed initially per connection and each time an Individual Firm initiates a change to its system that requires network connectivity testing and certification. Network Connectivity Testing and Certification Fees will not be assessed in situations where the Exchange initiates a change to the Exchange's system that requires testing and certification.

**d) Non-Member Network Connectivity Testing and Certification Fee**

Non-Member	1 Gigabit Fee Per Connection	10 Gigabit Fee Per Connection
Service Bureau/Extranet Provider <sup>[22]23</sup> and other non-Members	\$1,200.00	\$4,200.00

Non-Member Network Connectivity Testing and Certification fees will be assessed initially per connection and each time a Service Bureau, Extranet Provider or other non-Member initiates a change to its system that requires network connectivity testing and certification. Network Connectivity Testing and Certification Fees will not be assessed in situations where the Exchange initiates a change to the Exchange's system that requires testing and certification.

**5) System Connectivity Fees****a) Monthly Member Network Connectivity Fee**

Member Network Connectivity Per Month	1 Gigabit Per Connection	10 Gigabit Per Connection
Individual Firm	\$1,000.00	\$5,000.00

The Member Network Connectivity fee will be pro-rated for new Members based on the number of trading days on which the Member used the connectivity in its first month of trading on or receiving information by way of such connectivity with MIAX, divided by the total number of trading days in such month multiplied by the monthly rate.

<sup>[22]23</sup> An Extranet Provider is a technology provider that connects with MIAX systems and in turn provides such connectivity to MIAX participants that do not connect directly with MIAX.

### b) Monthly Non-Member Network Connectivity Fee

Non-Member Network Connectivity Per Month	1 Gigabit Per Connection	10 Gigabit Per Connection
Service Bureau/Extranet Provider and other non-Members	\$1,000.00	\$5,000.00

The non-Member Network Connectivity fee will be pro-rated for new non-Members connecting to the MIAX System based on the number of trading days on which the non-Member used the connectivity in its first month of trading on or (in the case of an AIS, receiving administrative information by way of such connectivity with MIAX, divided by the total number of trading days in such month multiplied by the monthly rate.

### c) Pass-Through of External Connectivity Fees

MIAX will assess External Connectivity fees to Members and non-Members that establish connections with MIAX through a third-party. Fees assessed to MIAX by third-party external vendors on behalf of a Member or non-Member connecting to MIAX (including cross-connects), <sup>[23]24</sup> will be passed through to the Member or non-Member. The External Connectivity fees passed through can include one-time set-up fees, monthly charges, and other fees charged to MIAX by a third-party for the benefit of a Member or non-Member.

### d) Port Fees

#### i) FIX Port Fees

MIAX will assess monthly Financial Information Exchange (“FIX”) Port <sup>[24]25</sup> Fees on Members based upon the number of FIX Ports used by the Member submitting orders to MIAX.

FIX Port Fees	MIAX Monthly Port Fees Includes Connectivity to the Primary, Secondary and Disaster Recovery Data Centers <sup>[25]26</sup>
1st FIX Port	\$500 per month
FIX Ports 2 through 5	\$300 per month per port
Additional FIX Ports over 5	\$100 per month per port

<sup>[23]24</sup> A “cross-connect” occurs when the affected third-party system is sited at the same data center where MIAX systems are sited, and the third-party connects to MIAX through the data center, rather than connecting directly to MIAX outside of the data center.

<sup>[24]25</sup> A FIX Port is an interface with MIAX systems that enables the Port user (typically an Electronic Exchange Member or a Market Maker) to submit orders electronically to MIAX.

<sup>[25]26</sup> MIAX has primary and secondary data centers and a disaster recovery center. Each port provides access to all three data centers for a single fee.

**ii) MEI Port Fees**

Monthly MIAX MEI Fees	MM Assignments (the lesser of the applicable measurements below)	
	Per Class	% of National Average Daily Volume
\$5,000.00	Up to 5 Classes	Up to 10% of Classes by volume
\$10,000.00	Up to 10 Classes	Up to 20% of Classes by volume
\$14,000.00	Up to 40 Classes	Up to 35% of Classes by volume
\$17,500.00	Up to 100 Classes	Up to 50% of Classes by volume
\$20,500.00	Over 100 Classes	Over 50% of Classes by volume up to all Classes listed on MIAX

MIAX will assess monthly MIAX Express Interface (“MEI”) <sup>[26]27</sup> Port fees on Market Makers based upon the number of classes the MM was assigned to quote in any given day within the calendar month and the class volume percentage is based on the total national average daily volume in classes listed on MIAX in the prior calendar quarter. Newly listed option classes are excluded from the calculation of the monthly MEI Port fee until the calendar quarter following their listing, at which time the newly listed option classes will be included in both the per class count and the percentage of total national average daily volume. The Exchange will assess MIAX Market Makers the monthly MEI Port fee based on the greatest number of classes listed on MIAX that the MIAX Market Maker was assigned to quote in on any given day within a calendar month and the applicable fee rate that is the lesser of either the per class basis or percentage of total national average daily volume measurement. For example, if MM1 elects to quote the top 40 option classes which consist of 58% of the total national average daily volume in the prior calendar quarter, the Exchange would assess \$14,000 to MM1 for the month which is the lesser of ‘up to 40 classes’ and ‘over 50% of classes by volume up to all classes listed on MIAX’. If MM2 elects to quote the bottom 1000 option classes which consist of 10% of the total national average daily volume in the prior quarter, the Exchange would assess \$5,000 to MM2 for the month which is the lesser of ‘over 100 classes’ and ‘up to 10% of classes by volume’.

MEI Port users will be allocated two (2) Full Service MEI Ports<sup>[27]28</sup> and two (2) Limited Service MEI Ports<sup>[28]29</sup> per matching engine<sup>[29]30</sup> to which they connect. MEI Port fees include MEI Ports at the Primary, Secondary and Disaster Recovery data centers. MIAX Market Makers may request additional Limited

<sup>[26]27</sup> MIAX Express Interface is a connection to MIAX systems that enables Market Makers to submit electronic quotes to MIAX.

<sup>[27]28</sup> Full Service MEI Ports provide Market Makers with the ability to send Market Maker quotes, eQuotes, and quote purge messages to the MIAX System. Full Service MEI Ports are also capable of receiving administrative information. Market Makers are limited to two Full Service MEI Ports per matching engine.

<sup>[28]29</sup> Limited Service MEI Ports provide Market Makers with the ability to send eQuotes and quote purge messages only, but not Market Maker Quotes, to the MIAX System. Limited Service MEI Ports are also capable of receiving administrative information. Market Makers initially receive two Limited Service MEI Ports per matching engine.

<sup>[29]30</sup> A “matching engine” is a part of the MIAX electronic system that processes options quotes and trades on a symbol-by-symbol basis. Some matching engines will process option classes with multiple root symbols, and other matching engines will be dedicated to one single option root symbol (for example, options on SPY will be processed by one single matching engine that is dedicated only to SPY). A particular root symbol may only be assigned to a single designated matching engine. A particular root symbol may not be assigned to multiple matching engines.

Service MEI Ports for which MIAX will assess MIAX Market Makers \$50 per month per additional Limited Service MEI Port for each engine. <sup>[30]31</sup>

### iii) Clearing Trade Drop Port Fees

Description	Monthly Fee
Real-Time CTD Information	\$0.0030 per executed contract side

CTD provides Exchange members with real-time clearing trade updates. The updates include the member's clearing trade messages on a low latency, real-time basis. The trade messages are routed to a member's connection containing certain information. The information includes, among other things, the following: (i) trade date and time; (ii) symbol information; (iii) trade price/size information; (iv) member type (for example, and without limitation, Market Maker, Electronic Exchange Member, Broker-Dealer); and (v) Exchange Member Participant Identifier ("MPID") for each side of the transaction, including clearing member MPID.

### e) Electronic Exchange Member MPID Fees

MIAX will assess monthly MIAX Member Participant Identifier ("MPID") fees to Electronic Exchange Members ("EEMs"), based upon the number of MPIDs assigned to the particular EEM in a given month.

EEM MPID Fees	EEM Monthly MPID Fees
1st MPID per EEM	\$200 per month
2 <sup>nd</sup> through 5 <sup>th</sup> EEM MPID	\$100 per month for each MPID
Each Additional EEM MPID over 5	\$50 per month for each MPID

## 6) Market Data Fees

### a) MIAX Top of Market ("ToM")

Distributor Type	Monthly Fee
Internal Distributor	\$1,250.00
External Distributor	\$1,750.00

MIAX assesses market data fees applicable to ToM on Internal and External Distributors. A Distributor of MIAX data is any entity that receives a feed or file of data either directly from MIAX or indirectly through another entity and then distributes it either internally (within that entity) or externally (outside that entity). All Distributors are required to execute a MIAX Distributor Agreement. Market Data Fees for ToM will be reduced for new Distributors for the first month during which they subscribe to ToM, based on the number of trading days that have been held during the month prior to the date on which they subscribe. Such new Distributors will be assessed a pro-rata percentage of the fees described above, which is the percentage of the number of trading

<sup>[30]31</sup> Market Makers are limited to two additional Limited Service MEI Ports per matching engine, for a total of four per matching engine.

days remaining in the affected calendar month as of the date on which they begin to receive the ToM feed, divided by the total number of trading days in the affected calendar month.

### b) Administrative Information Subscriber (“AIS”)

Distributor Type	Monthly Fee
Internal Distributor	\$1,250.00
External Distributor	\$1,750.00

MIAX assesses market data fees applicable to AIS on Internal and External Distributors. A Distributor of MIAX data is any entity that receives a feed or file of data either directly from MIAX or indirectly through another entity and then distributes it either internally (within that entity) or externally (outside that entity). All Distributors are required to execute a MIAX Distributor Agreement. Market Data Fees for AIS will be reduced for new Distributors for the first month during which they subscribe to AIS, based on the number of trading days that have been held during the month prior to the date on which they subscribe. Such new Distributors will be assessed a pro-rata percentage of the fees described above, which is the percentage of the number of trading days remaining in the affected calendar month as of the date on which they begin to receive the AIS feed, divided by the total number of trading days in the affected calendar month. The monthly fee for Distributors of AIS will be waived if they also subscribe to ToM.

### c) MIAX Order Feed (“MOR”)

Distributor Type	Monthly Fee
Internal Distributor	\$3,000.00
External Distributor	\$3,500.00

MIAX assesses market data fees applicable to MOR on Internal and External Distributors. A Distributor of MIAX data is any entity that receives a feed or file of data either directly from MIAX or indirectly through another entity and then distributes it either internally (within that entity) or externally (outside that entity). All Distributors are required to execute a MIAX Distributor Agreement. Market Data Fees for MOR will be reduced for new Distributors for the first month during which they subscribe to MOR, based on the number of trading days that have been held during the month prior to the date on which they subscribe. Such new Distributors will be assessed a pro-rata percentage of the fees described above, which is the percentage of the number of trading days remaining in the affected calendar month as of the date on which they begin to receive the MOR feed, divided by the total number of trading days in the affected calendar month.