

**Exhibit 5**

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# MIAX Options Fee Schedule

## 1) Transaction Fees

### a) Exchange Fees

i) No change.

### ii) Other Market Participant Transaction Fees

Types of Other Market Participants	Standard Options Transaction Fee for Simple and Complex Orders (per executed contract)		Per Contract Surcharge for Removing Liquidity Against a Resting Priority Customer Complex Order on the Strategy Book for Penny and Non-Penny Classes	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<sup>3</sup></i>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.000</b>	<b>\$0.000</b>	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>	<b>\$0.47<sup>4</sup></b>	<b>\$0.75<sup>5</sup></b>	<b>\$0.08</b>	<b>\$0.05</b>	<b>\$0.07</b>	This fee is assessed to an EEM that enters an order that is executed for the account of a Public Customer <sup>6</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>7</sup>

<sup>3</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>4</sup> Any Member or its Affiliate that qualifies for Priority Customer Rebate Program volume tiers 3 or higher will be assessed \$0.45 per contract for standard options in simple order executions.

<sup>5</sup> Any Member or its Affiliate that qualifies for Priority Customer Rebate Program volume tiers 3 or higher will be assessed \$0.73 per contract for standard options in simple order executions.

<sup>6</sup> The term "Public Customer" means a person that is not a broker or dealer in securities. See Exchange Rule 100.

<sup>7</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.

<i>Non-MIAX Market Maker</i>	\$0.47 <sup>8</sup>	\$0.75 <sup>9</sup>	\$0.08	\$0.045	\$0.07	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.
<i>Non-Member Broker-Dealer</i>	\$0.47 <sup>10</sup>	\$0.75 <sup>11</sup>	\$0.08	\$0.045	\$0.07	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>	\$0.45 <sup>12</sup>	\$0.75 <sup>13</sup>	\$0.08	\$0.04	\$0.07	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.

iii) – vi) No change.

## b) Marketing Fee

MIAX will assess a Marketing Fee to all Market Makers for contracts, including mini options, they execute in their assigned classes in simple or complex order executions when the contra-party to the execution is a Priority Customer. The Marketing Fee in complex order executions will be assessed per contract (whether the transaction executes in a strategy match, complex auction, or by legging into the Book). MIAX will not assess a Marketing Fee to Market Makers for contracts executed as a PRIME Agency Order, Contra-side Order,

<sup>8</sup> [For transactions that occur on or after September 1, 2016 and extending through October 31, 2016, orders executed for the account of non-MIAX market makers will be assessed \$0.50 per contract in options overlying EEM, GLD, IWM, QQQ, and SPY in simple order executions.] Any Member or its Affiliate that qualifies for Priority Customer Rebate Program volume tiers 3 or higher will be assessed \$0.45 per contract for standard options in all options classes[, except that, with respect to transactions that occur on or after September 1, 2016 and extending through October 31, 2016 in options overlying EEM, GLD, IWM, QQQ, and SPY, such Member or Affiliate will be assessed \$0.48 per contract in simple order executions].

<sup>9</sup> Any Member or its Affiliate that qualifies for Priority Customer Rebate Program volume tiers 3 or higher will be assessed \$0.73 per contract for standard options in simple order executions.

<sup>10</sup> Any Member or its Affiliate that qualifies for Priority Customer Rebate Program volume tiers 3 or higher will be assessed \$0.45 per contract for standard options in simple order executions.

<sup>11</sup> Any Member or its Affiliate that qualifies for Priority Customer Rebate Program volume tiers 3 or higher will be assessed \$0.73 per contract for standard options in simple order executions.

<sup>12</sup> Any Member or its Affiliate that qualifies for Priority Customer Rebate Program volume tiers 3 or higher will be assessed \$0.43 per contract for standard options in simple order executions.

<sup>13</sup> Any Member or its Affiliate that qualifies for Priority Customer Rebate Program volume tiers 3 or higher will be assessed \$0.73 per contract for standard options in simple order executions.

Qualified Contingent Cross Order, PRIME Participating Quote or Order or a PRIME AOC Response in the PRIME Auction; unless, it executes against an unrelated order.

[For transactions that occur on or after September 1, 2016 and extending through October 31, 2016 in simple order executions, 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 or PRIME Participating Quote or Order 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>	Simple and complex order transactions in Standard Option Classes that are not in the Penny Pilot Program
<b>\$0.25<sup>[15]</sup></b> <b>(per contract)</b>	Simple and complex order 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>	Simple and complex order transactions in Mini Options where the corresponding Standard Option is not in the Penny Pilot Program
<b>\$0.025</b> <b>(per contract)</b>	Simple and complex order 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)

<sup>[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 simple orders in 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.]

**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.

## 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>[16] 15</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>[16]15</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>[17]16</sup>
\$110.00	FINRA Disclosure Processing Fee <sup>[18]17</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>[19]18</sup>

\$55.00	Continuing Education Session Fee for All Registrations
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#### Qualification Examination Fee:

\$120.00	Series 57 Examination Fee
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<sup>[17]16</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>[18]17</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>[19]18</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

MIAX will assess a one-time Membership Application Fee on the earlier of (i) the date the applicant is certified in the membership system, or (ii) once an application for MIAX membership is finally denied.

#### b) Monthly Trading Permit Fee

MIAX will issue Trading Permits<sup>[20]19</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.

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

Monthly Trading Permit Fees will be assessed with respect to EEMs (other than Clearing Firms) in any month the EEM is certified in the membership system and the EEM is credentialed to use one or more FIX Ports in the production environment.

Monthly Trading Permit Fees will be assessed with respect to EEM-Clearing Firms in any month the Clearing Firm is certified in the membership system to clear transactions on the Exchange.

Monthly Trading Permit Fees will be assessed with respect to Market Makers in any month the Market Maker is certified in the membership system, is credentialed to use one or more MEI Ports in the production environment and is assigned to quote in one or more classes.

Notwithstanding the foregoing, 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.

<sup>[20]19</sup> For a complete description of MIAX Trading Permits, see MIAX Rule 200.

Type of Trading Permit	Monthly MIAX Trading Permit Fee	Market Maker 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 Market Maker Trading Permit Fees, the number of classes is defined as the greatest number of classes the Market Maker 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 Market Maker 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 Market Maker 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 Market Maker 1 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 \$12,000 to Market Maker 1 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 Market Maker 2 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 Market Maker 2 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

API Testing and Certification Fees for EEMs (other than clearing firms) will be assessed (i) initially per API for FIX, FXD and CTD (as defined below) in the month the EEM has been credentialed to use one or more ports in the production environment for the tested API, and (ii) each time an EEM initiates a change to its system that requires testing and certification.

API Testing and Certification Fees for EEM-Clearing Firms will be assessed (i) initially per API in the month the EEM-Clearing Firm has been credentialed to use one or more CTD ports in the production environment, and (ii) each time an EEM-Clearing Firm initiates a change to its system that requires testing and certification.

API Testing and Certification Fees for Market Makers will be assessed (i) initially per API for CTD and MEI (as defined below) in the month the Market Maker has been credentialed to use one or more ports in the production environment for the tested API and the Market Maker has been assigned to quote in one or more classes, and (ii) each time a 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 mandatory 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>[21]20</sup> and Service Bureaus <sup>[22]21</sup> and other non-Members	\$1,200.00

API Testing and Certification Fees for Third Party Vendors, Service Bureaus and other non-Members will be assessed (i) initially per API for FIX, FXD, CTD and MEI (as defined below) in the month the Non-Member has been credentialed to use one or more ports in the production environment for the tested API, and (ii) 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 mandatory change to the Exchange's system that requires testing and certification.

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

<sup>[22]21</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 10 Gigabit ULL Fee Per Connection
Individual Firm	\$1,000.00	\$4,000.00

Member Network Connectivity Testing and Certification Fees will be assessed (i) initially per connection in the month the Individual Firm has been credentialed to use any API or Market Data feeds in the production environment utilizing the tested network connection, and (ii) 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 mandatory change to the Exchange's system that requires testing and certification. Member Network Connectivity Testing and Certification Fees will not be assessed for testing and certification of connectivity to the Exchange's Disaster Recovery Facility.

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

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

Non-Member Network Connectivity Testing and Certification fees will be assessed (i) initially per connection in the month the Service Bureau, Extranet Provider or other non-Member has been credentialed to use any API or Market Data feeds in the production environment using the tested network connection, and (ii) 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 mandatory change to the Exchange's system that requires testing and certification. Non-Member Network Connectivity Testing and Certification Fees will not be assessed for testing and certification of connectivity with the Exchange's Disaster Recovery Facility.

<sup>[23]22</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.

## 5) System Connectivity Fees

### a) Monthly Member Network Connectivity Fee

Member Network Connectivity Per Month	Primary/Secondary Facility 1 Gigabit Per Connection	Disaster Recovery Facility 1 Gigabit Per Connection	Primary/Secondary Facility 10 Gigabit Per Connection	Disaster Recovery Facility 10 Gigabit Per Connection	Primary/Secondary Facility 10 Gigabit ULL Per Connection
Individual Firm	\$1,000.00	\$500.00	\$5,000.00	\$2,500.00	\$7,500.00

Monthly Member Network Connectivity fees for connectivity with the Primary/Secondary Facility will be assessed in any month the Member is credentialed to use any of the MIAX APIs or Market Data feeds in the production environment and will be pro-rated when a Member makes a change to the connectivity (by adding or deleting connections) with such pro-rated fees based on the number of trading days that the Member has been credentialed to utilize any of the MIAX APIs or Market Data feeds in the production environment through such connection, divided by the total number of trading days in such month multiplied by the applicable monthly rate. Monthly Member Network Connectivity fees for connectivity with the Disaster Recovery Facility will be assessed in each month during which the Member has established connectivity with the Disaster Recovery Facility.

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

Non-Member Network Connectivity Per Month	Primary/Secondary Facility 1 Gigabit Per Connection	Disaster Recovery Facility 1 Gigabit Per Connection	Primary/Secondary Facility 10 Gigabit Per Connection	Disaster Recovery Facility 10 Gigabit Per Connection	Primary/Secondary Facility 10 Gigabit ULL Per Connection
Service Bureau/Extranet Provider and other non-Members	\$1,000.00	\$500.00	\$5,000.00	\$2,500.00	\$7,500.00

Monthly Non-Member Network Connectivity fees for connectivity with the Primary/Secondary Facility will be assessed in each month the Non-Member has been credentialed to use any of the MIAX APIs or Market Data feeds via the network connection in the production environment and will be pro-rated when a Non-Member makes a change to the connectivity (by adding or deleting connections) with such pro-rated fees based on the number of trading days that the Non-Member has been credentialed to utilize any of the MIAX APIs or Market Data feeds in the production environment through such connection, divided by the total number of trading days in such month multiplied by the applicable monthly rate. Monthly Non-Member Network Connectivity fees for connectivity with the Disaster Recovery Facility will be assessed in each month during which the Non-Member has established connectivity with the Disaster Recovery Facility.

### 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>[24]23</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>[25]24</sup> Fees on Members in each month the Member is credentialed to use a FIX Port in the production environment and based upon the number of credentialed FIX Ports.

FIX Port Fees	MIAX Monthly Port Fees Includes Connectivity to the Primary, Secondary and Disaster Recovery Data Centers <sup>[26]25</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

#### ii) MEI Port Fees

Monthly MIAX MEI Fees	Market Maker 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>[27]26</sup> Port Fees on Market Makers in each month the Member has been credentialed to use the MEI Port in the production environment and has been assigned to quote in at least one class. The amount of the monthly MEI Port Fee will be based upon the

<sup>[24]23</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>[25]24</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 simple and complex orders electronically to MIAX.

<sup>[26]25</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.

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

number of classes in which the Market Maker was assigned to quote on any given day within the calendar month, and upon the class volume percentages set forth in the above table. 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 Market Maker 1 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 Market Maker 1 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 Market Maker 2 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 Market Maker 2 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>[28]27</sup> and two (2) Limited Service MEI Ports<sup>[29]28</sup> per matching engine<sup>[30]29</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 Service MEI Ports for which MIAX will assess MIAX Market Makers \$50 per month per additional Limited Service MEI Port for each engine.<sup>[31]30</sup>

**iii) Clearing Trade Drop Port Fees**

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

Clearing Trade Drop (“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); (v) Exchange Member Participant Identifier (“MPID”) for each side of the transaction, including Clearing Member MPID; and (vi) strategy specific information for complex

<sup>[28]27</sup> Full Service MEI Ports provide Market Makers with the ability to send Market Maker simple and complex 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>[29]28</sup> Limited Service MEI Ports provide Market Makers with the ability to send simple and complex 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>[30]29</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.

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

transactions. CTD Port Fees will be assessed in any month the Member is credentialed to use the CTD Port in the production environment.

**iv) FIX Drop Copy Port Fees**

Description	MIAX Monthly Port Fees Includes connectivity to the Primary, Secondary and Disaster Recovery Data Centers <sup>[32]31</sup>
FIX Drop Copy Port	\$500 per month

The FIX Drop Copy Port (“FXD”) is a messaging interface that will provide a copy of real-time trade execution, trade correction and trade cancellation information for simple and complex orders to FIX Drop Copy Port users who subscribe to the service. FIX Drop Copy Port users are those users who are designated by an EEM to receive the information and the information is restricted for use by the EEM only. FXD Port Fees will be assessed in any month the Member is credentialed to use the FXD Port in the production environment.

**e) Electronic Exchange Member MPID Fees**

MIAX will assess monthly MIAX Member Participant Identifier (“MPID”) fees to EEMs, based upon the number of MPIDs assigned to the particular EEM in a given month in each month the Member is credentialed to use such MPIDs in the production environment.

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

**f) Member and Non-Member Technical Support Request Fee**

Members and Non-Members that request MIAX technical support at any of the MIAX data centers will be assessed a fee of \$200 per hour for such technical support.

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<sup>[32]31</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.