CFE Fee Schedule
Effective July 2, 2019

1.a. CFE TPH Permit Holder Transaction Fees in Cboe Volatility Index (Standard) (VX) Futures:

<table>
<thead>
<tr>
<th>Tier</th>
<th>Percentage of VX TPH Volume</th>
<th>Rebate Per Contract Side</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>≥ 0.25%</td>
<td>$0.08 Rebate</td>
</tr>
<tr>
<td>2</td>
<td>≥ 0.50%</td>
<td>$0.13 Rebate</td>
</tr>
<tr>
<td>3</td>
<td>≥ 1.00%</td>
<td>$0.22 Rebate</td>
</tr>
<tr>
<td>4</td>
<td>≥ 2.00%</td>
<td>$0.29 Rebate</td>
</tr>
<tr>
<td>5</td>
<td>≥ 5.00%</td>
<td>$0.33 Rebate</td>
</tr>
<tr>
<td>6</td>
<td>≥ 10.00%</td>
<td>$0.37 Rebate</td>
</tr>
<tr>
<td>7</td>
<td>≥ 20.00%</td>
<td>$0.42 Rebate</td>
</tr>
</tbody>
</table>

1.b. CFE TPH Permit Holder Transaction Fees in Weekly (Non-Standard) Cboe Volatility Index (VX) Futures:

<table>
<thead>
<tr>
<th>Tier</th>
<th>Average Daily VX TPH Volume</th>
<th>Rebate Per Contract Side</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>≥ 500</td>
<td>$0.03 Rebate</td>
</tr>
<tr>
<td>2</td>
<td>≥ 1,000</td>
<td>$0.06 Rebate</td>
</tr>
<tr>
<td>3</td>
<td>≥ 2,000</td>
<td>$0.09 Rebate</td>
</tr>
<tr>
<td>4</td>
<td>≥ 5,000</td>
<td>$0.12 Rebate</td>
</tr>
<tr>
<td>5</td>
<td>≥ 10,000</td>
<td>$0.14 Rebate</td>
</tr>
<tr>
<td>6</td>
<td>≥ 25,000</td>
<td>$0.16 Rebate</td>
</tr>
<tr>
<td>7</td>
<td>≥ 50,000</td>
<td>$0.18 Rebate</td>
</tr>
<tr>
<td>8</td>
<td>≥ 100,000</td>
<td>$0.20 Rebate</td>
</tr>
</tbody>
</table>

1.c. CFE TPH Permit Holder Rebates in Cboe Volatility Index (Standard) (VX) Futures and Weekly (Non-Standard) Cboe Volatility Index (VX) Futures:

<table>
<thead>
<tr>
<th>Tier</th>
<th>Rebate Per Contract Side</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Taker Fee $1.10</td>
</tr>
<tr>
<td>2</td>
<td>Maker Fee $0.00</td>
</tr>
<tr>
<td>3</td>
<td>Block Trade $1.00</td>
</tr>
</tbody>
</table>

(Fee is in addition to other applicable transaction fees)
1.d. Customer Transaction Fees in Cboe Volatility Index (VX) Futures:

<table>
<thead>
<tr>
<th>Tier</th>
<th>Percentage of VX Customer Volume Associated with Customer’s FTID</th>
<th>Rebate Per Contract Side</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>$\geq 0.75%$</td>
<td>$0.03$ Rebate</td>
</tr>
<tr>
<td>2</td>
<td>$\geq 1.00%$</td>
<td>$0.06$ Rebate</td>
</tr>
<tr>
<td>3</td>
<td>$\geq 1.50%$</td>
<td>$0.11$ Rebate</td>
</tr>
<tr>
<td>4</td>
<td>$\geq 2.50%$</td>
<td>$0.14$ Rebate</td>
</tr>
<tr>
<td>5</td>
<td>$\geq 5.00%$</td>
<td>$0.18$ Rebate</td>
</tr>
</tbody>
</table>

B. Block Trade

(Fee is in addition to other applicable transaction fees)

C. CFE Regulatory Fee

$0.04

1.e. Transaction Fees in Cboe Russell 2000 Volatility Index (VU) Futures and Cboe/CBOT 10-Year U.S. Treasury Note Volatility Index (VXTY) Futures:

<table>
<thead>
<tr>
<th>Tier</th>
<th>Average Daily VX Customer Volume Associated with Customer’s FTID for Applicable Month</th>
<th>Rebate Per Contract Side</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>$\geq 1,000$</td>
<td>$0.02$ Rebate</td>
</tr>
<tr>
<td>2</td>
<td>$\geq 2,000$</td>
<td>$0.04$ Rebate</td>
</tr>
<tr>
<td>3</td>
<td>$\geq 8,000$</td>
<td>$0.08$ Rebate</td>
</tr>
</tbody>
</table>

D. CFE Regulatory Fee

$0.04

1.f. Transaction Fees in S&P 500 Variance (VA) Futures:

- Standard Transactions

<table>
<thead>
<tr>
<th>Tier</th>
<th>By contract side per 1,000 Vega Notional</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

D. CFE Regulatory Fee

$0.04
CFE Fee Schedule
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- **Stub Transactions**
  E. CFE TPH Permit Holders and Customers $0.25 per variance unit, capped at a maximum of $8.00 per stub transaction
  F. CFE Regulatory Fee $0.04 per stub transaction

1.g. **Transaction Fees in Cboe Bitcoin (USD) (XBT) Futures:**

   **Per Contract Side**
   A. CFE TPH Permit Holder
      1. Taker Fee $0.25
      2. Maker Fee $0.00
      3. Market Turner Credit $0.15 Credit
   B. Customer
      1. Taker Fee $1.00
      2. Maker Fee $0.80
      3. Market Turner Fee $0.65
   C. Block Trade $0.50
      (Fee is in addition to other applicable transaction fees)

1.h. **Transaction Fees in Cboe® iBoxx® iShares® Bond (CB) Index Futures*:**

   **Per Contract Side**
   A. CFE TPH Permit Holder $0.30
   B. Customer $1.00
   C. Block Trade $1.00
      (Fee is in addition to other applicable transaction fees)
   D. CFE Regulatory Fee $0.04

*iBoxx® is a service mark IHS Markit Limited.
iShares® is a registered trademark of BlackRock Fund Advisors and its affiliates.

1.i. **Transaction Fees in AMERIBOR® Futures*:**

   **Per Contract Side**
   A. CFE TPH Permit Holder $1.40
   B. Customer $1.40
   C. Block Trade $1.35
      (Fee is in addition to other applicable transaction fees)

*AMERIBOR® is a registered trademark of Environmental Financial Products, LLC.

CFE assesses the Transaction Fees set forth above to the Clearing Member associated with the EFID for the execution that is identified on the trade record for the applicable transaction, regardless of whether the trade is given up to another Clearing Member for clearing and regardless of whether a different Clearing Member has been identified as the designated Clearing Member under the Integrated Billing System by the CFE TPH that executed the trade.

2. **Trading Permit Fees:**

   **Amount**
   A. Clearing Firm $100/month
   B. Proprietary Trading/Pool Manager/Pooled Investment Vehicle $1,000/month
   C. Broker $700/month
3. **Applications Fees:**
   - Individual: $500
   - Organization: $1,000
   - Investigation Fee: $135/Investigation

4. **Direct Data Access Fee:**
   - CFE Data: $2,000/Direct Source/month

5. **Market Data Distribution Fees:**
   - Internal Distribution: $175/month
   - External Distribution (includes Bulk Data, TV Display, News Service, and other external distribution): $225/month
   - External Distribution – TV Display Only: $100/month

6. **Bulk Data Feed Distribution Fees:**
   - Per Subscriber: $50/Data Feed/Distributor/month
   - Unlimited Subscribers: $15,000/Unlimited Data Feeds/month

7. **Device/Authorized User Fees:**
   - CFE Surface Quote (TOP):
     - Professional User/Device: $8.00/Device/Authorized User/month
     - Non-Professional User/Devise: $1.50/Device/Authorized User/month
   - CFE Book Depth (PITCH):
     - Professional User/Device: $16.00/Device/Authorized User/month
     - Non-Professional User/Device: $3.00/Device/Authorized User/month
   - Non-Professional User/Device Enterprise: $5,000/month
   - TV Display Feed: $300/Broadcast Feed/month
   - News Service Data: $100/month
   - Service Facilitator Recipient: $175/month

8. **Physical Port Fees:**
   - 1 Gb Network Access Port: $1,500/Physical Port/month
   - 10 Gb Network Access Port: $2,500/Physical Port/month

9. **Disaster Recovery Physical Port Fees:**
   - 1 Gb Network Access Port: $2,000/Physical Port/month
   - 10 Gb Network Access Port: $6,000/Physical Port/month

10. **Match Capacity Fees:**
    - First Allocation: $550/Allocation/month
    - Allocations 2-4: $900/Allocation/month
    - Allocations 5-25: $1,200/Allocation/month
    - Allocations 26 and above: $100/Allocation/month

11. **Logical Port Fees**
    - Execution Drop Port: $400/Port/month
    - Order Drop Port: $600/Port/month
    - Purge Port: $600/Port/month
    - Spin Server Port: $0/Port/month
    - Gap Request (GRP) Port: $0/Port/month
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12. Co-Location Fee:
Co-location of Equipment Fee (per “U” – 1.75 inches) $50/per “U”/month
(400 S. LaSalle St.)

13. Other Market Data Services:
A. C Level Reports
   $0.00 to develop and/or generate
   $0.00 for daily, weekly, or monthly subscription
B. B Level Reports
   $0.00 to develop and/or generate
   $100/month for monthly subscription and
   $200/month for daily or weekly subscription
C. A Level Reports
   $100 for first 5 man-hours and $100/hour for each additional man-hour to develop and/or generate
   $100/month for monthly subscription and
   $200/month for daily or weekly subscription

14. Integrated Billing System:
Every Trading Privilege Holder must designate a Clearing Member for the payment by means of the integrated billing system (“IBS”) of the Trading Privilege Holder’s Exchange fees designated by the Exchange (other than for Transaction Fees) and vendor fees for Exchange-related services designated by the Exchange. The designated Clearing Member shall pay to the Exchange on a timely basis any amount that is not disputed pursuant to IBS procedures by the Trading Privilege Holder that is directly involved. Such payments shall be collected by the Exchange against the designated Clearing Member’s account at the Clearing Corporation. Exchange Transaction Fees are also assessed pursuant to the IBS to the Clearing Member for the execution that is identified on the trade record for the applicable transaction. The Clearing Corporation shall have no liability in connection with forwarding to the Exchange payments drafted pursuant to the IBS.

1 CFE fees are invoiced at the beginning of each month for the previous month of service.

2 Any potential billing errors relating to fees assessed by CFE must be brought to the attention of CFE’s Accounting Department within 90 days from the invoice date. All fees assessed shall be deemed final and non-refundable after 90 days from the invoice date if notice of a potential billing error is not provided within that time frame. Notwithstanding the foregoing, the Exchange will not provide any refund with respect to transaction fees that are billed at a higher rate because an incorrect Customer Type Indicator (“CTI”) code was included in an order or transaction report submission. The Exchange is not precluded from assessing fees more than 90 days after they were incurred if those fees were required to be paid pursuant to the CFE Fee Schedule in effect at the time the fees were incurred. If transaction fees are billed at a lower rate because of an incorrect CTI code that was included in an order or transaction report submission and the Exchange later assesses additional fees for those transactions based on the correct CTI code, the additional fee assessment shall be determined in the following manner. The additional fee assessment for those transactions will be equal to the number of executed contracts that were assessed at an incorrect rate multiplied by the difference between the highest potential customer rate and the highest potential TPH rate for the relevant product under the CFE Fee Schedule during the time period in which the executions occurred. This calculation will not be adjusted for any potential or previous rebate payments and no adjustments will be made to any rebate payments to the applicable party or to other parties because of the use of an incorrect CTI code. This calculation will also not be adjusted for any maker, taker, or market turner designations for executions.

3 Fees in Section 1.a. are applicable to VX futures contracts with a VX or VXT ticker symbol (“Standard VX Futures”). CFE TPH Permit Holder fees in Section 1.a. are subject to the rebate schedule in Section 1.c.
4 Block Trade fees for Trade at Settlement ("TAS") transactions in VX futures executed as Block Trades are capped at $500.00 per trading day for each TPH.

5 Fees in Section 1.b. are applicable to Weekly (Non-Standard) VX futures contracts with a VX or VXT ticker symbol followed by a number denoting the specific week of the calendar year in which the contract expires ("Weekly VX Futures"). CFE TPH Permit Holder fees in Section 1.b. are subject to the rebate schedule in Section 1.c.

6 Transaction fees for Trading Privilege Holder ("TPH") transactions in VX futures that qualify as VX TPH Volume are subject to two rebate schedules. For this purpose, VX TPH Volume includes all TPH transaction volume in VX futures for which the applicable CTI code is 1, 2, or 3, including Trade at Settlement ("TAS") transactions in VX futures with one of those CTI codes and Block Trades and Exchange of Contract for Related Position transactions in VX futures with one of those CTI codes. VX TPH Volume includes TPH transaction volume both in Standard VX Futures and in Weekly VX Futures. There are two potential types of rebates for VX TPH Volume. A TPH may receive both rebates, one of the two rebates, or neither of the two rebates for a particular calendar month depending on whether the TPH qualifies for neither, one, or both of the rebates for that calendar month. A TPH may qualify for the first rebate based upon VX TPH Volume of the TPH during the applicable calendar month as a percentage of the total VX TPH Volume of all TPHs during the applicable calendar month. A TPH may qualify for the second rebate based upon the average daily VX TPH Volume of the TPH during the applicable calendar month. The amount of each rebate is based upon the tier level of the VX TPH Volume and the tier level of the average daily VX TPH Volume of the TPH for the applicable calendar month. Only the highest tier level within each rebate schedule for which a TPH qualifies for the applicable calendar month is applied for that calendar month. If a TPH qualifies for one or both types of rebates for a calendar month, the amount of the TPH's VX TPH Volume during the calendar month is multiplied by the sum of any applicable rebate(s) from the two rebate schedules to arrive at a total TPH VX transaction fee rebate amount for the calendar month for that TPH. For purposes of qualification for the two rebate schedules, a TPH’s VX TPH Volume solely includes trading volume resulting from transactions executed by that TPH using an EFID assigned to that TPH.

Affiliated TPHs that have at least 75% of their direct or indirect ownership in common are eligible to have their VX TPH Volume aggregated for purposes of satisfaction by each of the TPHs of the tier levels under the two rebate schedules applicable to VX TPH Volume. TPHs must request this aggregation in a form and manner prescribed by the Exchange. The aggregation shall be applied starting with the calendar month following the month in which the Exchange determines that the TPHs qualify for the aggregation. The aggregation shall apply solely with respect to VX TPH Volume resulting from transactions executed by the affiliated TPHs using their own EFIDs.

7 Customers may enroll in the Frequent Trader Program and receive a Frequent Trader ID ("FTID"). A customer may request more than one FTID but may not aggregate VX Customer Volume associated with multiple FTIDs for purposes of the rebate schedules under the Frequent Trader Program. A Pool Manager or Commodity Trading Advisor that is not a TPH may utilize the same FTID for trading activity on behalf of multiple Pools or accounts. Enrollment in the Frequent Trader Program takes effect starting with the business day on which the enrollment is completed if the enrollment is completed by 3:15 p.m. Chicago time on that business day. If the enrollment is completed after 3:15 p.m. Chicago time on a business day or is completed on a non-business day, the enrollment takes effect starting with the next business day. Enrollment includes providing both any enrollment information and any related consents in a form and manner prescribed by the Exchange.

A TPH acting as agent for a customer may include the customer’s FTID in order, Block Trade, and Exchange of Contract for Related Position transaction submissions to the Exchange on behalf of the customer in a form and manner prescribed by the Exchange. Each customer enrolled in the Frequent Trader Program is responsible for requesting that any TPH acting as agent for the customer include the customer’s FTID in order, Block Trade, and Exchange of Contract for Related Position transaction submissions to the Exchange on behalf of the customer. A TPH is not required to include a customer’s FTID in these submissions on behalf of the customer but may choose to do so voluntarily. The same FTID may be used on the Exchange and for activity on Exchange affiliates that offer a Frequent Trader Program. The FTID utilized for a customer in an order, Block Trade, or Exchange of Contract for Related Position transaction submission must match exactly an FTID provided to that customer in order for the customer to receive credit for any VX Customer Volume associated with that submission. The Exchange will not accept any corrections to add FTID information for an order, Block Trade, or Exchange of Contract for Related Position transaction submission or to modify FTID information included in such a submission after the original submission is received by the Exchange.
Transaction fees for VX Customer Volume associated with a customer’s FTID during the time period in which the customer is enrolled in the Frequent Trader Program are subject to two rebate schedules. For this purpose, VX Customer Volume includes all customer transaction volume in VX futures with CTI Code 4, including TAS transactions in VX futures with CTI Code 4 and Block Trades and Exchange of Contract for Related Position transactions in VX futures with CTI Code 4. VX Customer Volume includes customer transaction volume both in Standard VX Futures and in Weekly VX Futures. There are two potential types of rebates for VX Customer Volume. A customer’s VX Customer Volume associated with an FTID may receive both rebates, one of the two rebates, or neither of the two rebates for a particular calendar month depending on whether the customer qualifies for neither, one, or both of the rebates for that calendar month for that FTID. A customer may qualify for the first rebate based upon VX Customer Volume associated with the customer’s FTID during the applicable calendar month as a percentage of the total VX Customer Volume of all customers during the applicable calendar month. A customer may qualify for the second rebate based upon the average daily VX Customer Volume associated with the customer’s FTID during the applicable calendar month. The amount of each rebate is based upon the tier level of the VX Customer Volume associated with the FTID and the tier level of the average daily VX Customer Volume associated with the FTID for the applicable calendar month. Only the highest tier within each rebate schedule for which a customer qualifies for the applicable calendar month for an FTID is applied for that FTID for that calendar month. If a customer qualifies for one or both types of rebates for a calendar month for an FTID, the amount of the customer’s VX Customer Volume associated with the customer’s FTID during the calendar month is multiplied by the sum of any applicable rebate(s) from the two rebate schedules to arrive at a total customer VX transaction fee rebate amount for the calendar month for the customer’s VX Customer Volume associated with the customer’s FTID.

The Exchange will disburse a customer’s VX transaction fee rebate amount for a calendar month to the Clearing Member(s) associated with the EFID(s) for the transactions executed with the customer’s FTID (regardless of whether a trade is given up to another Clearing Member for clearing). If EFIDs for more than one Clearing Member are associated with the applicable transactions, the Exchange will disburse the customer’s VX transaction fee rebate for the calendar month in portions to these Clearing Members. Specifically, each of these Clearing Members will receive the portion of the customer’s VX transaction fee rebate attributable to the transactions associated with that Clearing Member’s EFID(s) that were executed with the customer’s FTID during the calendar month.

The Exchange will not publish a list or details of the customers that have an FTID. The Exchange and its affiliates may utilize for business and marketing purposes the information received by the Exchange relating to customers and their activity on the Exchange as a result of their participation in the Frequent Trader Program. Any use of this information and the treatment of this information shall be consistent with the Cboe Privacy Notice and Policy.

8 A taker fee applies if a participant’s simple order trades against a resting simple order. In the case of a Spread Order, (i) a taker fee applies if a participant’s Spread Order in XBT futures trades against a resting Spread Order in XBT futures; (ii) a taker fee is the default transaction fee that applies if a participant’s Spread Order with Weekly VX futures legs trades against another Spread Order with Weekly VX futures legs; and (iii) a taker fee is the default transaction fee that applies if a participant’s Spread Order in VX futures or XBT futures trades against any simple orders regardless of whether or not the simple orders were resting. A taker fee is also the default transaction fee that applies with respect to (i) any order executed as part of a single price opening during a CFE System opening process conducted at any time during a Business Day, (ii) any Block Trade, and (iii) any Exchange of Contract for Related Position transaction.

9 A maker fee applies if a participant’s simple order resting in the order book is traded against by another simple order. In the case of a Spread Order, a maker fee applies if a participant’s Spread Order in XBT futures resting in the order book is traded against by another Spread Order in XBT futures. Additionally, a maker fee does not apply if the taker fee or market turner credit or fee is applicable.

10 A market turner credit or fee applies if a participant’s simple order that is resting in the order book was first in time at the best price and is traded against by another order. A simple order is evaluated for market turner status upon receipt of the order by the CFE System and upon any modification to the order that causes the CFE System to re-evaluate the priority of the order (such as an increase to the quantity of the order or a change to the price of the order). If at the time of this evaluation the price of the order is better than the best price of any other orders resting in the order book on the same side of the market, the order will receive or retain market turner status. Once an order has received market turner status, that status will remain with the order for the life of the order (as long as the order is not modified in a manner that causes the CFE
System to re-evaluate its priority, at which point its market turner status would be re-evaluated as well). Thus, for example, if a simple order receives market turner status at its price level and the order is not modified, the order would retain market turner status at that price level if the prevailing price on that side of the market became better than the price of the order and then moved back to the price level of the order. However, the market turner credit or fee does not apply to any Spread Orders or if the taker fee is applicable.

A TPH shall be entitled to obtain a single Trading Permit. A Pool Manager may obtain a single Trading Permit for the Pool Manager and all of the Pools approved under Rule 305A for which it acts as Pool Manager. If there is more than one Pool Manager for a Pool or Pools, the Pool Managers for the Pool(s) may obtain a single Trading Permit for the Pool Managers and all of the Pools approved under Rule 305A for which they act as Pool Manager. The monthly fee for a Trading Permit is based on the capacity or capacities of the TPH on CFE. There are three categories of capacities specified in the CFE Fee Schedule. If a TPH has capacities in multiple categories, the TPH is assessed the monthly Trading Permit fee for each category. If a TPH has capacities in the same category, the monthly Trading Permit fee for that category covers all capacities in that category and the TPH is not assessed an additional monthly Trading Permit fee for that category. The following capacities have the following meanings solely for the purpose of assessment of Trading Permit fees:

**Clearing Firm:** A Trading Privilege Holder has a Clearing Firm capacity if the Trading Privilege Holder (i) is a member of the Clearing Corporation that is authorized under the rules of the Clearing Corporation to clear trades in Contracts traded on the Exchange and (ii) guarantees and/or clears transactions on the Exchange executed by the Trading Privilege Holder itself and/or one or more other Trading Privilege Holder(s). If a Clearing Member executes transactions on the Exchange as agent for one or more other Person(s), the Clearing Member shall also be deemed to have a Broker capacity. If a Clearing Member executes transactions on the Exchange for its own account, the Clearing Member shall also be deemed to have a Proprietary Trading capacity.

**Broker:** A Trading Privilege Holder has a Broker capacity if the Trading Privilege Holder executes transactions on the Exchange as agent for one or more other Person(s). If a Trading Privilege Holder with a Broker capacity executes transactions on the Exchange for the Trading Privilege Holder’s own account, the Trading Privilege Holder shall also be deemed to have a Proprietary Trading capacity. If a Trading Privilege Holder has a Proprietary Trading capacity and the only other Person(s) for which the Trading Privilege Holder executes transactions on the Exchange as agent are affiliates of the Trading Privilege Holder, the Trading Privilege Holder shall not be deemed to have a Broker capacity for this purpose.

**Proprietary Trading:** A Trading Privilege Holder has a Proprietary Trading capacity if the Trading Privilege Holder executes transactions on the Exchange for the Trading Privilege Holder’s own account.

**Pool Manager/Pooled Investment Vehicle (“Pool”):** These capacities have the meanings set forth in Rule 305A.

The applicable Trading Permit fee(s) shall be assessed for a calendar month unless a TPH provides notice of the termination of a TPH capacity for the purpose of assessment of Trading Permit fees, or of the termination of a Trading Permit, in a form and manner prescribed by the Exchange by no later than 4:00 p.m. Chicago time on the second-to-last business day of the prior calendar month.

A monthly or quarterly fee under the CFE Fee Schedule will be prorated for the initial month or quarter in which it is applicable, with the exception of Device/Authorized User fees which are not prorated for any month in which they are applicable. A monthly or quarterly fee under the CFE Fee Schedule is not prorated for the final month or quarter in which it is applicable (unless that final month or quarter is the same as the initial month or quarter in which the fee is applicable).

A Trading Permit Holder application fee is not applicable if a former Trading Privilege Holder applies for reinstatement as a Trading Privilege Holder within 30 days of termination as a Trading Privilege Holder.

This fee is assessed for each investigation that is conducted of any Trading Privilege Holder applicant; any executive officer, authorized signatory, or administrator of an applicant; and any executive officer, authorized signatory, or administrator added by an existing Trading Privilege Holder.
This fee is payable by all Trading Privilege Holders and other parties that receive CFE data through a direct connection to CFE or through a connection to CFE provided by an approved extranet service provider. This fee is not payable by a party acting solely as an approved extranet service provider. This fee is charged for each direct data feed source. A direct data feed source can be either CFE physical ports or an approved extranet service provider. For example, if a party receives CFE market data directly over four physical ports where CFE is the source and separately from two physical ports provided by an approved extranet service provider, this fee is assessed twice for the applicable month for those two sources.

This fee is payable by a recipient that is not a Trading Privilege Holder and that receives a CFE market data feed directly from CFE or through an approved extranet service provider for the recipient’s own internal use and the internal use of its affiliates.

This fee is payable by all Distributors whether they receive a CFE market data feed directly from CFE or from another CFE Distributor. This fee covers redistribution of real-time or delayed market data by a Distributor and its affiliates that are authorized under a single CFE market data agreement. This fee also covers any internal use that is covered by the Internal Distribution fee, and Distributors that pay the External Distribution fee are not required to pay the Internal Distribution fee for that internal use. (The term “Distributor” does not include an Independent Software Vendor that distributes CFE market data only to Trading Privilege Holders that have been identified by the Independent Software Vendor to CFE as receiving CFE market data from that Independent Software Vendor (a “Non-Distributor ISV”) or an approved extranet service provider.)

This fee is waived through September 2019 for any Distributor that has its principal place of business in a country in the Asia-Pacific Region as designated by CFE, first began or begins to receive CFE market data during the time period from January 2012 through September 2019, and did not previously receive CFE market data.

Distributors in the CFE Market Data Fee Waiver Program for Retail Brokers are eligible to receive a 6 month waiver of this fee in accordance with the following provisions of the Program. A Distributor must satisfy the following requirements in order to participate in the Program: (i) the Distributor provides retail brokerage services; (ii) the Distributor signs up for the Program in a form and manner prescribed by CFE; (iii) the Distributor has not received CFE market data at any time prior to when the Distributor signs up for the Program; and (iv) the Distributor directly signs a market data agreement with CFE. This fee is waived for the first 6 months after a Distributor in the Program begins to receive a CFE market data feed directly from CFE or from another CFE Distributor. If a Distributor in the Program first begins to receive a CFE market data feed directly from CFE or from another CFE Distributor during a month at some point after the beginning of the month, that partial month is counted as the first month of the 6 month waiver period. Any Distributor in the Program is obligated to pay this fee at then current rates for the 12 months following the 6 month waiver period (regardless of whether or not the Distributor ceases to receive a CFE market data feed directly from CFE or from another CFE Distributor prior to or during the 12 months following the 6 month waiver period). Following this 18 month period, the Distributor is obligated to pay this fee if the Distributor would otherwise be required to pay this fee in the absence of the Program.

This fee is payable by a recipient that directly or indirectly receives from CFE a real-time or delayed CFE market data feed for display by television broadcast. The External Distribution – TV Display Only Fee is waived for parties that pay an Internal Distribution Fee or External Distribution Fee for the same time period.

A Distributor or other party that provides production or disaster recovery bulk data feeds is responsible for reporting and paying the Bulk Data Feed Distribution fees to CFE. The Per Subscriber rate applies unless the Distributor has elected to pay the Unlimited Subscriber rate. A bulk data feed is a stream of current data transmitted to a third party’s computer system where the third party controls access or entitlement. Bulk Data Feed Distribution fees are in addition to Device/Authorized User Fees and other fees applicable to Distributor-controlled data distribution.

These fees are payable by each Distributor (whether receiving CFE market data directly from CFE or from another CFE Distributor) and each other Person receiving CFE market data directly from CFE, except that these fees are not payable by Non-Distributor ISVs and approved extranet service providers. These fees are based either on the number of Devices or the number of Authorized Users to which the recipient externally and/or internally distributes CFE market data, except that the Non-Professional User/Device Enterprise rate allows for distribution to an unlimited number of Non-Professional Users as further described in note 24. Distributors that externally or internally distribute only delayed data are not obligated to pay
these fees, and other Persons that internally distribute only delayed data are not obligated to pay these fees. These fees are not assessed for particular data uses as may be designated by CFE.

21 Device/Authorized User fees are waived through September 2019 for CFE Surface Quote (TOP) and CFE Book Depth (PITCH) data that is distributed to any Person (including any Distributor) that has its principal place of business in the “Asia-Pacific Region” as designated by CFE, first began or begins to receive CFE market data during the time period from 2015 through September 2019, and did not previously receive CFE market data. For Devices/Authorized Users to be eligible for this fee waiver, the Distributor or other Person that would otherwise be required to pay fees with respect to the Devices/Authorized Users must include them in its regular reporting to CFE, identify them as eligible for the waiver, and provide other information sufficient to enable CFE to verify that they are eligible for the waiver.

Non-Professional User/Device fees are waived for Distributors in the CFE Market Data Fee Waiver Program for Retail Brokers (as described in note 17) for the first 6 months after a Distributor in the Program begins to receive a CFE market data feed directly from CFE or from another CFE Distributor. If a Distributor in the Program first begins to receive a CFE market data feed directly from CFE or from another CFE Distributor during a month at some point after the beginning of the month, that partial month is counted as the first month of the 6 month waiver period. Any Distributor in the Program is obligated to pay Non-Professional User/Device fees at the then current Non-Professional User/Device Enterprise monthly fee rate for the 12 months following the 6 month waiver period (regardless of whether or not the Distributor ceases to receive a CFE market data feed directly from CFE or from another CFE Distributor prior to or during the 12 months following the 6 month waiver period and regardless of the number, if any, of Devices or Authorized Users to which the Distributor externally and/or internally distributes CFE market data during the 12 months following the 6 month waiver period). Following this 18 month period, the Distributor is obligated to pay Non-Professional User/Device fees if and to the extent that the Distributor would otherwise be required to pay these fees in the absence of the Program.

22 CFE Surface Quote (TOP) includes top of book quotations, last sale execution information, and other CFE market data in a form and manner made available by CFE.

23 CFE Book Depth (PITCH) includes depth of book quotations, last sale execution information, and other CFE market data in a form and manner made available by CFE.

24 If a Distributor elects in a form and manner prescribed by CFE to be subject to the Non-Professional User/Device Enterprise rate, the Non-Professional User/Device Enterprise rate will be applicable for an unlimited number of Non-Professional Users instead of the Non-Professional User Device/Authorized User rates.

25 A broadcast feed is news programming that is produced for television viewing. The same or substantially the same broadcast feed (i.e., the same or substantially similar programming content) is considered to be a single broadcast feed (for purposes of calculating fees) regardless of whether it is distributed via multiple technologies (cable, satellite, on-air, etc.) or made available on multiple television channels. For example, a national news program that is displayed daily on a number of on-air, satellite, or cable channels is a single broadcast feed; a news program that is separately produced and does not incorporate substantial portions of the national news program is a separate broadcast feed.

26 The News Service Data fee is payable by a news media company for the company and its affiliates to receive real-time market data designated by CFE, and on a display-only basis, to display it on one or more websites and transmit it to authorized devices of subscribers.

27 The Service Facilitator Recipient fee is payable by a Distributor with respect to each of its Service Facilitators. The Service Facilitator fee does not apply to a third-party service company that pays a CFE Market Data Distribution fee under Section 5A, 5B, or 5C of this Fee Schedule.

28 A physical port may be either a 1 gigabit per second port or a 10 gigabit per second port. Any party that directly connects to CFE is required to have a redundant physical port. These physical ports may not be used to access other exchanges affiliated with CFE through the same physical port.
The Disaster Recovery Physical Port fees are applicable to physical ports at CFE’s disaster recovery site at 400 South LaSalle Street in Chicago and at the Cboe point of presence at 350 East Cermak Road in Chicago. These physical ports may be either a 1 gigabit per second port or a 10 gigabit per second port. These physical ports may be used to access CFE’s disaster recovery systems and the disaster recovery systems of the other exchanges affiliated with CFE.

Match capacity fees are assessed per allocation of match capacity. Each match capacity allocation allows for the submission of up to 3,000 messages per second to the CFE System. A match capacity allocation operates as an Order rate limit in the manner described in Rule 513A(h).

The Co-Location Fee is applicable to co-location at 400 South LaSalle Street in Chicago and is charged in increments of 4 “U” (7 inches), which means that the minimum monthly Co-Location Fee is $200.

See the DataShop website at https://datashop.cboe.com for information regarding historical CFE market data made available by Cboe LiveVol, LLC and associated fees. See the Cboe website at https://cboe.com/index/licensing-data/licensing for information regarding derived data licensing.

C Level Exchange Data Reports are standard reports regularly generated and run by the Exchange and made available on a daily, weekly, or monthly basis that do not require historical data generation, customization beyond a standard format (PDF, HTML, etc.) or distribution frequency (daily, weekly, monthly, etc.), or specialized development.

B Level Exchange Data Reports are initial report requests (or enhancements to existing subscriptions) that require less than one man-hour to develop and/or generate.

Fees will be estimated in advance, and estimates will be provided to the requester. If the estimate changes once creation of the report begins, a revised estimate will be provided to the requester.

A Level Exchange Data Reports are initial report requests (or enhancements to existing subscriptions) that require one or more man-hours to develop and/or generate.

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