

## MARGIN REQUIREMENTS – CBOE FUTURES EXCHANGE

Effective 05-18-2017

| Contract                                                              | Speculative Customer Initial <sup>1</sup> | Customer Maintenance <sup>2</sup><br>Hedger & TPH <sup>3</sup> Initial<br>Hedger & TPH Maintenance | Spread <sup>4</sup><br>Speculative Customer Initial | Spread Customer Maintenance<br>Spread Hedger & TPH Initial<br>Spread Hedger & TPH Maintenance |
|-----------------------------------------------------------------------|-------------------------------------------|----------------------------------------------------------------------------------------------------|-----------------------------------------------------|-----------------------------------------------------------------------------------------------|
| <b>CBOE Volatility Index (VX) – Monthly Expirations<sup>5 6</sup></b> |                                           |                                                                                                    |                                                     |                                                                                               |
| Jun.2017                                                              | \$6,215                                   | \$5,650                                                                                            | See the VX table below.                             | See the VX table below.                                                                       |
| Jul.2017                                                              | 4,015                                     | 3,650                                                                                              |                                                     |                                                                                               |
| Aug.2017                                                              | 4,015                                     | 3,650                                                                                              |                                                     |                                                                                               |
| Sep.2017                                                              | 2,860                                     | 2,600                                                                                              |                                                     |                                                                                               |
| Oct.2017                                                              | 2,860                                     | 2,600                                                                                              |                                                     |                                                                                               |
| Nov.2017                                                              | 2,860                                     | 2,600                                                                                              |                                                     |                                                                                               |
| Dec.2017                                                              | 2,530                                     | 2,300                                                                                              |                                                     |                                                                                               |
| Jan.2018                                                              | 2,530                                     | 2,300                                                                                              |                                                     |                                                                                               |
| <b>CBOE Volatility Index (VX) – Weekly Expirations<sup>7 8</sup></b>  | \$6,215                                   | \$5,650                                                                                            | \$3,674                                             | \$3,340                                                                                       |
| <b>CBOE Russell 2000 Volatility Index (VU)<sup>9</sup></b>            |                                           |                                                                                                    |                                                     |                                                                                               |
| Jun.2017                                                              | \$3,795                                   | \$3,450                                                                                            | See the VU table below.                             | See the VU table below.                                                                       |
| Jul.2017                                                              | 2,750                                     | 2,500                                                                                              |                                                     |                                                                                               |
| Aug.2017                                                              | 2,750                                     | 2,500                                                                                              |                                                     |                                                                                               |
| <b>S&amp;P 500 Variance (VA)</b>                                      |                                           |                                                                                                    |                                                     |                                                                                               |
| May.2017                                                              | \$77                                      | \$70                                                                                               | See the VA table below.                             | See the VA table below.                                                                       |
| Jun. 2017                                                             | 59                                        | 54                                                                                                 |                                                     |                                                                                               |
| Jul.2017                                                              | 240                                       | 218                                                                                                |                                                     |                                                                                               |
| Aug.2017                                                              | 294                                       | 267                                                                                                |                                                     |                                                                                               |
| Sep.2017                                                              | 109                                       | 99                                                                                                 |                                                     |                                                                                               |
| Dec.2017                                                              | 52                                        | 47                                                                                                 |                                                     |                                                                                               |
| Jan. 2018                                                             | 88                                        | 80                                                                                                 |                                                     |                                                                                               |
| Mar.2018                                                              | 124                                       | 113                                                                                                |                                                     |                                                                                               |
| Jun. 2018                                                             | 70                                        | 64                                                                                                 |                                                     |                                                                                               |
| Dec.2018                                                              | 58                                        | 53                                                                                                 |                                                     |                                                                                               |
| Dec. 2019                                                             | 86                                        | 78                                                                                                 |                                                     |                                                                                               |

This margin information is only a brief summary and should only serve as a supplement to careful review of relevant CFE rules, OCC rules, Commodity Exchange Act (CEA) provisions, and CEA regulations dealing with margin requirements. The requirements explained here are based on publication date rules and regulations, and therefore, subject to change. This information should be used as a reference document and is not intended to be an all-encompassing restatement of applicable margin requirements. Brokerage firms may require customers to post higher margins than the minimum margins specified.

| Contract                                                        | Speculative Customer Initial <sup>1</sup> | Customer Maintenance <sup>2</sup><br>Hedger & TPH <sup>3</sup> Initial<br>Hedger & TPH Maintenance | Spread <sup>4</sup><br>Speculative Customer Initial | Spread Customer Maintenance<br>Spread Hedger & TPH Initial<br>Spread Hedger & TPH Maintenance |
|-----------------------------------------------------------------|-------------------------------------------|----------------------------------------------------------------------------------------------------|-----------------------------------------------------|-----------------------------------------------------------------------------------------------|
| <b>CBOE/CBOT 10-Year Treasury Note Volatility Index (TYVIX)</b> | \$880                                     | \$800                                                                                              | \$319                                               | \$290                                                                                         |

CBOE Volatility Index (VX)  
Intra-Commodity Rates (Calendar Spreads)

|                                                                           | Speculative Customer Initial | - Customer Maintenance<br>- Hedger & TPH Initial<br>- Hedger & TPH Maintenance |
|---------------------------------------------------------------------------|------------------------------|--------------------------------------------------------------------------------|
| Tier 1 (Month 1) vs. Tier 2 (Month 2, Month 3)                            | \$2,200                      | \$2,000                                                                        |
| Tier 1 (Month 1) vs. Tier 3 (Month 4, Month 5, Month 6)                   | \$3,355                      | \$3,050                                                                        |
| Tier 1 (Month 1) vs. Tier 4 (Month 7, Month 8, Month 9)                   | \$3,685                      | \$3,350                                                                        |
| Tier 2 (Month 2, Month 3) vs. Tier 2 (Month 2, Month 3)                   | \$770                        | \$700                                                                          |
| Tier 2 (Month 2, Month 3) vs. Tier 3 (Month 4, Month 5, Month 6)          | \$1,430                      | \$1,300                                                                        |
| Tier 2 (Month 2, Month 3) vs. Tier 4 (Month 7, Month 8, Month 9)          | \$2,288                      | \$2,080                                                                        |
| Tier 3 (Month 4, Month 5, Month 6) vs. Tier 3 (Month 4, Month 5, Month 6) | \$495                        | \$450                                                                          |
| Tier 3 (Month 4, Month 5, Month 6) vs. Tier 4 (Month 7, Month 8, Month 9) | \$1,617                      | \$1,470                                                                        |
| Tier 4 (Month 7, Month 8, Month 9) vs. Tier 4 (Month 7, Month 8, Month 9) | \$1,408                      | \$1,280                                                                        |

CBOE Russell 2000 Volatility Index (VU)  
Intra-Commodity Rates (Calendar Spreads)

|                                                                           | Speculative Customer Initial | - Customer Maintenance<br>- Hedger & TPH Initial<br>- Hedger & TPH Maintenance |
|---------------------------------------------------------------------------|------------------------------|--------------------------------------------------------------------------------|
| Tier 1 (Month 1) vs. Tier 2 (Month 2, Month 3, Month 4)                   | \$2,453                      | \$2,230                                                                        |
| Tier 2 (Month 2, Month 3, Month 4) vs. Tier 2 (Month 2, Month 3, Month 4) | \$1,958                      | \$1,780                                                                        |

S&P 500 Variance (VA)  
Intra-Commodity Rates (Calendar Spreads)

As the S&P 500 Variance futures margin rates generally differ by contract month, the table of calendar spread rates below is only a sample of the total number of combinations. However, for any combination of contract months, the spread margin rate can be determined by taking the absolute value of the difference between the outright margin rates on a 1:1 ratio for the two applicable contract months and adding \$50 per spread.

|                                         | Speculative<br>Customer<br>Initial | - Customer Maintenance<br>- Hedger & TPH Initial<br>- Hedger & TPH Maintenance |
|-----------------------------------------|------------------------------------|--------------------------------------------------------------------------------|
| Tier 1 (Month 1) vs. Tier 2 (Month 2)   | \$73                               | \$66                                                                           |
| Tier 1 (Month 1) vs. Tier 3 (Month 3)   | 218                                | 198                                                                            |
| Tier 1 (Month 1) vs. Tier 4 (Month 4)   | 272                                | 247                                                                            |
| Tier 1 (Month 1) vs. Tier 5 (Month 5)   | 87                                 | 79                                                                             |
| Tier 1 (Month 1) vs. Tier 6 (Month 6)   | 80                                 | 73                                                                             |
| Tier 1 (Month 1) vs. Tier 7 (Month 7)   | 66                                 | 60                                                                             |
| Tier 1 (Month 1) vs. Tier 8 (Month 8)   | 102                                | 93                                                                             |
| Tier 1 (Month 1) vs. Tier 9 (Month 9)   | 62                                 | 56                                                                             |
| Tier 1 (Month 1) vs. Tier 10 (Month 10) | 74                                 | 67                                                                             |
| Tier 1 (Month 1) vs. Tier 11 (Month 11) | 64                                 | 58                                                                             |

<sup>1</sup> Shading indicates customer initial margin requirements set by OCC. The customer initial margin requirement is 110% of OCC's clearing member margin requirement.

<sup>2</sup> CFE sets the customer maintenance margin requirement equal to the OCC clearing member margin requirement.

<sup>3</sup> TPH Permit means the account of a person possessing a Trading Privilege Holder Permit that allows access to the CBOE Futures Exchange, LLC trading system.

<sup>4</sup> All spread margin requirements shown are for intra-commodity spreads.

<sup>5</sup> 75% inter-commodity spread credit vs. VU.

<sup>6</sup> 85% inter-commodity spread credit vs. weekly VX.

<sup>7</sup> 75% inter-commodity spread credit vs. VU.

<sup>8</sup> 85% inter-commodity spread credit vs. monthly VX.

<sup>9</sup> 75% inter-commodity spread credit vs. weekly and monthly VX.