

| Asset Class | Requirement Type<br>Eligibility (Core,<br>Concentration or<br>Guaranty Fund) | Description          | Haircut Schedule  | Eligible for<br>House<br>(Proprietary)<br>Requirements | Eligible for<br>Cleared Swaps<br>Customer<br>Requirements | Notes |  |
|-------------|--|----------------------|---|--|---|-------|--|
| Cash        | Core<br>Concentration<br>Guaranty Fund                                       | 100%<br>100%<br>0%   | <ul style="list-style-type: none"> <li>Australian dollar</li> <li>British pound</li> <li>Canadian dollar</li> <li>Danish krone</li> <li>Euro</li> <li>Hong Kong dollar</li> <li>Japanese yen</li> <li>New Zealand dollar</li> <li>Norwegian krone</li> <li>Singapore dollar</li> <li>Swedish krona</li> <li>Swiss franc</li> <li>Czech koruna</li> <li>Offshore Chinese Renminbi</li> <li>Hungarian forint</li> <li>Mexican peso</li> <li>Polish zloty</li> <li>South African rand</li> </ul> | See Notes  | Yes   | Yes   | <ul style="list-style-type: none"> <li>A haircut is applied to cash when cash is utilized to meet a requirement based in a different currency. Please see the <a href="#">Cross-Currency Haircut Percentages file</a> for applicable cross-currency haircuts applied to all assets. Example: Japanese yen used for Norwegian krone requirement: 5% haircut.</li> <li>\$250 million USDE limit across the clearing member and affiliates on all foreign currency cash meeting a requirement in a different currency.</li> </ul> |
|             | Core<br>Concentration<br>Guaranty Fund                                       | 100%<br>100%<br>100% | <ul style="list-style-type: none"> <li>U.S. dollar</li> </ul>   | See Notes  | Yes   | Yes   |  |
| Gold        | Core<br>Concentration<br>Guaranty Fund                                       | 100%<br>100%<br>0%   | <ul style="list-style-type: none"> <li>Physical Gold</li> </ul>   | 15%  | Yes   | No    | <ul style="list-style-type: none"> <li>\$250 million USDE cap across the clearing member and affiliates.</li> <li>Agreements are required.</li> <li>Cap Notes</li> </ul>   |

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|---------------------------------|--|--|------------------|--|---|--|
| IEF2<br>(Money Fund<br>Program) | Core<br>Concentration<br>Guaranty Fund<br>100%<br>100%<br>0%                 | <ul style="list-style-type: none"> <li>Money Market Mutual Fund Program</li> </ul>   | 3%               | Yes  | Select IEF2 funds   | <ul style="list-style-type: none"> <li>\$5 billion USDE cap across the clearing member and affiliates.</li> <li>Cap Notes</li> </ul>   |
| Corporate Bonds                 | Core<br>Concentration<br>Guaranty Fund<br>100%<br>100%<br>0%                 | <ul style="list-style-type: none"> <li>Fee based triparty collateral management program for pledging alternative collateral</li> </ul> | 20%              | Yes  | Yes   | <ul style="list-style-type: none"> <li>Agreements are required.</li> <li>Must be an IEF4 participant.</li> <li>List is updated monthly.</li> <li>\$2 billion USDE cap across the clearing member and affiliates.</li> <li>Cap Notes</li> </ul> |

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|--|--|--|------------------|-----------------|-----------------|------------------|-------------------|---|--|---|--|
|  |  |  | Time to Maturity |                 |                 |                  |                   |   |  |   |  |
|  |  |  | 0 to ≤ 1<br>yrs  | >1 to<br>≤3 yrs | >3 to<br>≤5 yrs | >5 to<br>≤10 yrs | >10 to<br>≤30 yrs | > 30 yrs  |  |   |  |
| U.S.<br>Treasuries                                     | Core<br>Concentration 100%<br>Guaranty Fund 100%                             | • T-Bills  | 0.5%             | --              | --              | --               | --                | --  | Yes  | Yes   | • T-Bonds that exceed 10 years time to maturity are not acceptable for Guaranty Fund.  |
|  |  | • TFRNs  | 1%               | 2%              | --              | --               | --                | --  |  |   |  |
|  |  | • T-Notes  | 1%               | 2%              | 3%              | 4.5%             | 6%                | --  |  |   |  |
|  |  | • T-Bonds  | 1%               | 2%              | 3%              | 4.5%             | 6%                | --  |  |   |  |
|  | Core<br>Concentration 100%<br>Guaranty Fund 0%                               | • TIPS   | 1%               | 2%              | 3%              | 4.5%             | 6%                | --  |  |   | • \$1 billion USDE cap on TIPS across the clearing member and affiliates.  |
|  | • TSTRIPS  | 11%  | 11%              | 11%             | 11%             | 11%              | 11%               | • \$1 billion USDE cap on TSTRIPS across the clearing member and affiliates.<br>• Cap Notes |  |   |  |
| U.S. Agencies<br>&<br>Mortgage<br>Backed<br>Securities | Core<br>Concentration 100%<br>Guaranty Fund 0%                               | Discount Notes and Bills:<br>• FFCB<br>• FHLB<br>• FHLMC<br>• FNMA | 3.5%             |                 |                 | --               | --                | --  | Yes  | Yes   | • Eligible issuers include Fannie Mae, Freddie Mac, Federal Farm Credit Bank, Federal Home Loan Bank, and also include Ginnie Mae for MBS securities.<br><br>• Issue size must be greater than \$1 billion for coupon bearing instruments (GSEOTH) and the only permissible derivative feature is floating rate.<br><br>• \$2 billion USDE cap on U.S. agencies across the clearing member and affiliates.<br><br>• Mortgage backed securities must be backed by 15 or 30 year conventional loans only. Fixed rate only.<br><br>• \$1 billion USDE cap on mortgage backed securities across the clearing member and affiliates.<br><br>• Cap Notes |
|  |  | Coupon bearing instruments:<br>• GSEOTH                            | 4%               |                 | 5.5%            | 7%               | --                |   |  |   |  |
|  |  | Mortgage backed securities:<br>• GSEMB                             | 11%              |                 | 11%             | 11%              | 11%               |   |  |   |  |

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|---------------------------|--|--|------------------|------------------|-------------------|---------|--|---|---|
|                           |  |  | Time to Maturity |                  |                   |         |  |   |   |
|                           |  |  | 0 to ≤5 yrs      | >5 to<br>≤10 yrs | >10 to<br>≤30 yrs | >30 yrs |  |   |   |
| Foreign<br>Sovereign Debt | Core 100%<br>Concentration 100%<br>Guaranty Fund 0%                          | Discount Bills from the following countries: <ul style="list-style-type: none"> <li>• Australia</li> <li>• Canada</li> <li>• France</li> <li>• Germany</li> <li>• Japan</li> <li>• Mexico</li> <li>• Singapore</li> <li>• Sweden</li> <li>• United Kingdom</li> </ul>  | 5%               | --               | --                | --      | Yes  | Yes   | <ul style="list-style-type: none"> <li>• \$5 billion USDE cap on all FX debt across the clearing member and affiliates.</li> <li>• \$250 million USDE cap on Australian debt across the clearing member and affiliates.</li> <li>• \$1 billion USDE cap on Canadian debt across the clearing member and affiliates.</li> <li>• \$1 billion USDE cap on French debt across the clearing member and affiliates.</li> <li>• \$1 billion USDE cap on German debt across the clearing member and affiliates.</li> <li>• \$1 billion USDE cap on Japanese debt across the clearing member and affiliates.</li> <li>• \$250 million USDE cap on Mexican debt across the clearing member and affiliates.</li> <li>• \$100 million USDE cap on Singapore debt across the clearing member and affiliates.</li> <li>• \$100 million USDE cap on Swedish debt across the clearing member and affiliates.</li> <li>• \$1 billion USDE cap on U.K. debt across the clearing member and affiliates.</li> <li>• Australian and Singapore debt may not exceed 10 years time to maturity.</li> <li>• Cap Notes</li> </ul> |
|                           |  | Notes and Bonds from the following countries: <ul style="list-style-type: none"> <li>• Australia</li> <li>• Canada</li> <li>• France</li> <li>• Germany</li> <li>• Japan</li> <li>• Mexico</li> <li>• Singapore</li> <li>• Sweden</li> <li>• United Kingdom</li> </ul> | 6%               | 7.5%             | 9%                | 10.5%   | Yes  | Yes   |   |

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|-------------------------|--|--|------------------|------------------|-------------------|---------|--|---|---|
|                         |  |  | Time to Maturity |                  |                   |         |  |   |   |
|                         |  |  | 0 to ≤5 yrs      | >5 to<br>≤10 yrs | >10 to<br>≤30 yrs | >30 yrs |  |   |   |
| Canadian<br>Provincials | Core<br>Concentration<br>Guaranty Fund<br>100%<br>100%<br>0%                 | Discount Bills from the following provinces:<br>• Ontario<br>• Quebec  | 25%              | --               | --                | --      | Yes  | Yes   | <ul style="list-style-type: none"> <li>\$100 million USDE cap on Canadian Provincial debt across the clearing member and affiliates.</li> <li>Canadian Provincials may not exceed 5 years time to maturity.</li> <li>Cap Notes</li> </ul> |
|                         |  | Notes and Bonds from the following provinces:<br>• Ontario<br>• Quebec | 25%              | --               | --                | --      | Yes  | Yes   |   |
| U.S. Equities           | Core<br>Concentration<br>Guaranty Fund<br>100%<br>100%<br>0%                 | • Select Stocks from S&P 500 Index                                     | 30%              |                  |                   |         | Yes  | Yes   | <ul style="list-style-type: none"> <li>Website is updated monthly.</li> <li>\$500 million USDE cap on stocks across the clearing member and affiliates.</li> <li>Cap Notes</li> </ul>   |
| Exchange-Traded Funds   | Core<br>Concentration<br>Guaranty Fund<br>100%<br>100%<br>0%                 | • Select ETFs  | 30%              |                  |                   |         | Yes  | Yes   | <ul style="list-style-type: none"> <li>Website is updated monthly.</li> <li>\$500 million USDE cap on ETFs across the clearing member and affiliates.</li> <li>Cap Notes</li> </ul>   |

Notes:

- All assets that are utilized to meet PB requirements in different currencies will be subject to an additional cross-currency haircut.
- For applicable haircuts, please see the [Cross-Currency Haircut Percentages file](#) found under Forms and Instructions.
- CME may manage specific collateral concentrations in all circumstances. CME may contact members directly to request collateral substitution.

Cap Notes: Gold, IEF2, Corporate Bonds, Canadian Provincials, Stocks, ETFs, and Foreign Sovereign Debt except that issued by Canada, France, Germany, and the United Kingdom are capped at \$5 billion USDE across the clearing member and affiliates. Gold, IEF2, Corporate Bonds, Canadian Provincials, Stocks, ETFs, all Foreign Sovereign Debt, U.S. Government Agencies, Agency MBS, TIPS, and STRIPS are capped at \$7 billion USDE across the clearing member and affiliates.