

expertise in ecology. The SAB Staff Office is especially interested in scientists with expertise described above who have knowledge and experience *relating to criteria pollutants (carbon monoxide, lead, nitrogen oxides, ozone, particulate matter, and sulfur oxides)*. For further information about the CASAC membership appointment process and schedule, please contact Mr. Aaron Yeow, DFO, by telephone at 202-564-2050 or by email at [yeow.aaron@epa.gov](mailto:yeow.aaron@epa.gov).

#### Selection Criteria for the CASAC

Nominees are selected based on their individual qualifications. Curriculum vitae should reflect the following:

- Demonstrated scientific credentials and disciplinary expertise in relevant fields;
  - Willingness to commit time to the committee and demonstrated ability to work constructively and effectively on committees; and
  - Background and experiences that would help members contribute to the diversity of perspectives on the committee, *e.g.*, geographical, economic, social, cultural, educational backgrounds, professional affiliations; and other considerations.
- For the committee as a whole, consideration of the collective breadth and depth of scientific expertise; and a balance of scientific perspectives is important.

As the committee undertakes specific advisory activities, the SAB Staff Office will consider two additional criteria for each new activity: Absence of financial conflicts of interest and absence of an appearance of a loss of impartiality.

#### How To Submit Nominations

Any interested person or organization may nominate qualified persons to be considered for appointment to this advisory committee. Individuals may self-nominate. Nominations should be submitted in electronic format (preferred) using the online nomination form under “Public Input on Membership” on the CASAC web page at <http://www.epa.gov/casac>. To be considered, all nominations should include the information requested below. EPA values and welcomes diversity. All qualified candidates are encouraged to apply regardless of sex, race, disability or ethnicity.

The following information should be provided on the nomination form: Contact information for the person making the nomination; contact information for the nominee; the disciplinary and specific areas of expertise of the nominee; the nominee’s

*curriculum vitae*; and a biographical sketch of the nominee indicating current position, educational background; research activities; sources of research funding for the last two years; and recent service on other national advisory committees or national professional organizations. To help the agency evaluate the effectiveness of its outreach efforts, please indicate how you learned of this nomination opportunity. Persons having questions about the nomination process or the public comment process described below, or who are unable to submit nominations through the CASAC website, should contact the DFO, as identified above. The DFO will acknowledge receipt of nominations and will invite the nominee to provide any additional information that the nominee feels would be useful in considering the nomination, such as availability to participate as a member of the committee; how the nominee’s background, skills and experience would contribute to the diversity of the committee; and any questions the nominee has regarding membership. The names and biosketches of qualified nominees identified by respondents to this **Federal Register** notice, and additional experts identified by the SAB Staff Office, will be posted in a List of Candidates on the CASAC website at <http://www.epa.gov/casac>. Public comments on each List of Candidates will be accepted for 21 days from the date the list is posted. The public will be requested to provide relevant information or other documentation on nominees that the SAB Staff Office should consider in evaluating candidates.

Candidates may be asked to submit the “Confidential Financial Disclosure Form for Special Government Employees Serving on Federal Advisory Committees at the U.S. Environmental Protection Agency” (EPA Form 3110-48). This confidential form is required for Special Government Employees (SGEs) and allows EPA to determine whether there is a statutory conflict between that person’s public responsibilities as an SGE and private interests and activities, or the appearance of a loss of impartiality, as defined by Federal regulation. The form may be viewed and downloaded through the “Ethics Requirements for Advisors” link on the CASAC home page at <http://www.epa.gov/casac>. This form should not be submitted as part of a nomination.

Dated: January 28, 2019.

**Khanna Johnston,**

*Deputy Director, EPA Science Advisory Staff Office.*

[FR Doc. 2019-03557 Filed 2-27-19; 8:45 am]

**BILLING CODE 6560-50-P**

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## FEDERAL MARITIME COMMISSION

### Notice of Agreements Filed

The Commission hereby gives notice of the filing of the following agreements under the Shipping Act of 1984. Interested parties may submit comments on the agreements to the Secretary by email at [Secretary@fmc.gov](mailto:Secretary@fmc.gov), or by mail, Federal Maritime Commission, Washington, DC 20573, within twelve days of the date this notice appears in the **Federal Register**. Copies of agreements are available through the Commission’s website ([www.fmc.gov](http://www.fmc.gov)) or by contacting the Office of Agreements at (202)-523-5793 or [tradeanalysis@fmc.gov](mailto:tradeanalysis@fmc.gov).

*Agreement No.:* 201251-001.

*Agreement Name:* Hapag-Lloyd/ Maersk Line Slot Exchange Agreement.  
*Parties:* Hapag Lloyd AG and Maersk Line A/S.

*Filing Party:* Wayne Rohde; Cozen O’Connor.

*Synopsis:* The amendment provides for the on-going chartering of space in addition to the existing exchange of space under the Agreement.

*Proposed Effective Date:* 4/8/2019.

*Location:* <https://www2.fmc.gov/FMC.Agreements.Web/Public/AgreementHistory/10190>.

Dated: February 22, 2019.

**Rachel Dickon,**

*Secretary.*

[FR Doc. 2019-03458 Filed 2-27-19; 8:45 am]

**BILLING CODE 6731-AA-P**

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## FEDERAL RESERVE SYSTEM

[Docket No. OP-1651]

### Enhanced Disclosure of the Models Used in the Federal Reserve’s Supervisory Stress Test

**AGENCY:** Board of Governors of the Federal Reserve System (Board).

**ACTION:** Final notification.

**SUMMARY:** The Board is finalizing an enhanced disclosure of the models used in the Federal Reserve’s supervisory stress test conducted under the Board’s Regulation YY pursuant to the Dodd-Frank Wall Street Reform and Consumer Protection Act and the Board’s capital plan rule.

**DATES:** April 1, 2019.

**FOR FURTHER INFORMATION CONTACT:** Lisa Ryu, Associate Director, (202) 263-4833, Kathleen Johnson, Assistant Director, (202) 452-3644, Robert Sarama, Assistant Director (202) 973-7436, or Aurite Werman, Senior Financial Analyst, (202) 263-4802, Division of Supervision and Regulation; Benjamin W. McDonough, Assistant General Counsel, (202) 452-2036, Julie Anthony, Senior Counsel, (202) 475-6682, or Asad Kudiya, Counsel, (202) 475-6358, Legal Division, Board of Governors of the Federal Reserve System, 20th Street and Constitution Avenue NW, Washington, DC 20551. Users of Telecommunication Device for Deaf (TDD) only, call (202) 263-4869.

**SUPPLEMENTARY INFORMATION:**

**Background**

Each year the Federal Reserve publicly discloses the results of the supervisory stress test.<sup>1</sup> The disclosures include revenues, expenses, losses, pre-tax net income, and capital ratios that would result under two sets of adverse economic and financial conditions. As part of the disclosures, the Federal Reserve also describes the broad framework and methodology used in the supervisory stress test, including information about the models used to estimate components of pre-tax net income and post-stress capital ratios in the stress test. The annual disclosures of both the stress test results and supervisory model framework and methodology represent a significant increase in the public transparency of large bank supervision in the U.S. since the 2007-2009 financial crisis.<sup>2</sup> Indeed, prior to the first supervisory stress test in 2009, many analysts and institutions cautioned against these disclosures, arguing that releasing bank-specific loss estimates to the public would be destabilizing. However, experience to date has shown the opposite to be true—disclosing these details to the public has garnered public and market confidence in the process.

The Federal Reserve routinely reviews its stress testing and capital planning programs, and during those reviews, the Federal Reserve has received feedback

regarding the transparency of the supervisory stress test models.<sup>3</sup> Some of those providing feedback requested more detail on modeling methodologies with a focus on year-over-year changes in the supervisory models.<sup>4</sup> Others, however, cautioned against disclosing too much information about the supervisory models because doing so could permit firms to reverse-engineer the stress test.

The Federal Reserve recognizes that disclosing additional information about supervisory models and methodologies has significant public benefits, and is committed to finding ways to further increase the transparency of the supervisory stress test. More detailed disclosures could further enhance the credibility of the stress test by providing the public with information on the fundamental soundness of the models and their alignment with best modeling practices. These disclosures would also facilitate comments on the models from the public, including academic experts. These comments could lead to improvements, particularly in the data most useful to understanding the risks of particular loan types. More detailed disclosures could also help the public understand and interpret the results of the stress test, furthering the goal of maintaining market and public confidence in the U.S. financial system. Finally, more detailed disclosures of how the Federal Reserve's models assign losses to particular positions could help those financial institutions that are subject to the stress test understand the capital implications of changes to their business activities, such as acquiring or selling a portfolio of assets.

The Federal Reserve also believes there are material risks associated with fully disclosing the models to the firms subject to the supervisory stress test. One implication of releasing all details of the models is that firms could conceivably use them to make modifications to their businesses that change the results of the stress test without actually changing the risks they face. In the presence of such behavior,

the stress test could give a misleading picture of the actual vulnerabilities faced by firms. Further, such behavior could increase correlations in asset holdings among the largest banks, making the financial system more vulnerable to adverse financial shocks.<sup>5</sup> Another implication is that full model disclosure could incent banks to simply use models similar to the Federal Reserve's, rather than build their own capacity to identify, measure, and manage risk. That convergence to the Federal Reserve's model would create a "model monoculture" in which all firms have similar internal stress testing models, and this could cause firms to miss key idiosyncratic risks that they face.<sup>6</sup>

**I. Proposed Enhanced Model Disclosure**

On December 15, 2017, the Board invited comment on a proposal to enhance the disclosures of those models.<sup>7</sup> The proposed enhancements were designed to balance the costs and benefits of model disclosure in a way that would further enhance the public's understanding of the supervisory stress test models without undermining the effectiveness of the stress test as a supervisory tool. The proposed enhanced disclosures contained three components: (1) Enhanced descriptions of supervisory models, including key variables; (2) modeled loss rates on loans grouped by important risk characteristics and summary statistics associated with the loans in each group; and (3) portfolios of hypothetical loans and the estimated loss rates associated with the loans in each portfolio.<sup>8</sup>

The proposed enhanced descriptions of the models would have expanded the existing model descriptions in two ways. First, they would have provided more detailed information about the structure of the models by including certain important equations that characterize aspects of the model. Second, they would have included a table that contains a list of the key variables that influence the results of a given model, and the table would show the relevant variables for each component of the model (e.g., PD, LGD,

<sup>1</sup> See, for example, *Dodd-Frank Act Stress Test 2018: Supervisory Stress Test Methodology and Results*, June 2018, and *Comprehensive Capital Analysis and Review 2018: Assessment Framework and Results*, June 2018.

<sup>2</sup> In addition to those public disclosures, the Federal Reserve has published detailed information about its scenario design framework and annual letters detailing material model changes. The Federal Reserve also hosts an annual symposium in which supervisors and financial industry practitioners share best practices in modeling, model risk management, and governance.

<sup>3</sup> During a review that began in 2015, the Federal Reserve received feedback from senior management at firms subject to the Board's capital plan rule, debt and equity market analysts, representatives from public interest groups, and academics in the fields of economics and finance. That review also included an internal assessment.

<sup>4</sup> Some of the comments in favor of additional disclosure included requests that the Federal Reserve provide additional information to firms only, without making the additional disclosures public. Doing so would be contrary to the Federal Reserve's established practice of not disclosing information related to the stress test to firms if that information is not also publicly disclosed.

<sup>5</sup> For example, if firms were to deem a specific asset as more advantageous to hold based on the particulars of the supervisory models, and an exogenous shock were to occur to that specific asset class, the firms' losses would be magnified because they held correlated assets.

<sup>6</sup> See Til Schuermann, "The Fed's Stress Tests Add Risk to the Financial System," *Wall Street Journal*, March 19, 2013.

<sup>7</sup> 82 FR 59547 (December 15, 2017).

<sup>8</sup> The second and third components would have been provided for the models used to project losses on the most material loan portfolios.

EAD), along with information about the source of the variables.

The proposed enhanced disclosure would have included estimated loss rates for groups of loans with distinct characteristics, which would allow the public to directly see how supervisory models treat specific assets under stress. To shed more light on the degree of heterogeneity of loans within a given group, the proposed enhanced disclosure would also have included summary statistics associated with the loans in each group.

The proposed enhanced disclosure would have included the publication of portfolios of hypothetical loans, along with supervisory projected loss rates on the portfolios. The portfolios of hypothetical loans would have been designed to mimic the characteristics of the actual loans reported by firms participating in the stress test, but would not have contained any individual firm's actual loan portfolio or any actual loans reported by firms. The set of variables included for each portfolio would have been designed such that the public could independently estimate loss rates for these portfolios, although the set would not necessarily have included every variable that might be included in a loss model for the relevant loan type.

Under the proposal, the Board would have provided enhanced versions of the supervisory model descriptions that are currently published in the model description appendix of the Board's annual disclosures of supervisory stress test results, and the Board would also have provided modeled loss rates on groups of loans and the loss rates associated with portfolios of hypothetical loans for the most material loan portfolios. The Board would have expected to publish its enhanced disclosure in the first quarter of each calendar year, and the annual disclosure in any given year would reflect updates to supervisory models for that stress test cycle, but would be based on data and scenarios from the prior stress test cycle.

## II. Summary of Comments

The Board received twelve comment letters in response to the proposal. Commenters included public interest groups, academics, individual banking organizations, and trade and industry groups. Commenters generally expressed support for the proposal, and provided suggestions regarding future model disclosures.

### A. Fully Disclosing Models for Notice and Comment

Commenters were divided in their views on the appropriate level of

transparency. Some commenters recommended full disclosure of supervisory models published by the Board through the public notice and comment process, suggesting that this would result in more accurate models. Other commenters expressed the view that the Federal Reserve should fully disclose material aspects of the models such as underlying formulas, equations, model backtesting, validation outcomes, and limitations, to enable the public to evaluate the reliability of the Federal Reserve's results. However, other commenters opposed full transparency of supervisory models, indicating that it is important for the stress test to remain flexible and for it not to be perfectly predictable by the companies subject to it. One commenter cited a historical study of the Office of Federal Housing Enterprise Oversight (OFHEO) stress test, noting that the full disclosure of the OFHEO stress test model rendered that stress test ineffective.

As discussed above, the proposed enhancements were designed to balance the costs and benefits of disclosure in a way that would further facilitate the public's understanding of the supervisory stress test models without undermining the effectiveness of the stress test as a supervisory tool. More detailed disclosures can enhance the credibility of the stress test and lead to its improvement, but full disclosure of all details related to supervisory models could make the financial system at large more vulnerable by allowing firms to make modifications to their businesses that would change their supervisory stress test results without materially changing their risk profile. The Board views the proposal as striking an appropriate balance between enhancing model transparency and maintaining the efficacy of the stress test, and is therefore adopting the enhancements as proposed, with modifications as described below. The Board intends to continue to improve its disclosures and to consider ways to further increase the transparency of the stress test.

### B. Content of Disclosures of Models

Commenters were generally supportive of the proposed enhancements to the model disclosures. Several commenters asserted that the portfolios of hypothetical loans in particular would help the public understand the models. Consistent with the proposal, commenters requested that the Board provide detailed descriptions of modeling assumptions and equations.

Some commenters expressed the view that the Board should publish a more detailed model disclosure than the one provided in the proposal. These

commenters requested decompositions that explain the proportion of changes from scenarios, portfolio composition, model changes, and additional details about model backtesting and assumptions. One commenter stated that the Board should provide a comprehensive explanation of the cost and benefit analysis used to determine the content of its proposed enhanced model disclosure.

The Board intends to publish enhanced versions of the supervisory model descriptions that are currently published in the model description appendix of the Board's annual disclosures of supervisory stress test results, and to publish the loss rates on groups of loans and portfolios of hypothetical loans and associated loss rates for the most material loan portfolios. In prior stress test results disclosures, the Board has discussed the key drivers of the supervisory stress test results, such as changes in firms' portfolio composition, and the Board intends to continue to consider ways to provide additional information on key drivers of aggregate results as appropriate.

One commenter outlined proposed variables on which to group loan loss rates in the enhanced disclosure. The segments the commenter suggested for corporate loans were generally consistent with those segments the Board provided in the example of disclosure for the corporate loan loss model in the proposal.

### C. Disclosure of Specific Models

Commenters requested more detail on the models used to project pre-provision net revenue (PPNR) and operational-risk losses in the supervisory stress test. Several commenters specifically requested enhanced disclosure of the components of PPNR (*i.e.*, net interest income, noninterest income, and noninterest expense), including additional detail on the structure, characteristics, and variables used to model each component of PPNR. One commenter requested forecasted PPNR metrics by scenario for hypothetical firms.

Commenters also requested that enhanced disclosure be provided for a number of other models, including the models used to project other-than-temporary losses on securities, other comprehensive income, losses associated with the global market shock and associated losses, deferred tax assets, loan loss provisions, the purchase accounting treatment for material business plan changes, and transfer pricing revenues. One commenter requested that the Board

release supervisory models used to project losses for previous stress tests.

The Board intends to include in its enhanced model disclosure detailed descriptions of the supervisory models that are currently addressed in the model description appendix of the Board's annual disclosure of supervisory stress test results, including the models used to project PPNR and operational-risk losses. These descriptions would contain the structural form of key model equations and key input variables. Further, the Board intends to publish projections of certain components of PPNR, including net interest income, noninterest income, and noninterest expense, for each covered company in its annual results disclosure.

The detailed disclosure of modeled loss rates similar to the example provided in the proposal requires loan- or security-level data reported to the Board on a regular basis; therefore, such disclosures are not feasible for certain types of models or calculations, such as the calculation of deferred tax assets. The Board intends to publish enhanced modeled loss rate disclosures for the most material loan portfolios over the next several years, starting with two of the most material loan portfolios in 2019. Over time, the Federal Reserve will extend enhanced modeled loss rate disclosures to non-loan portfolios, such as securities. The specific portfolios and the level of detail provided for each portfolio will depend on constraints such as those related to vendor data contracts, where applicable.

Models used in previous years are described in the Board's annual disclosure of supervisory stress test results.

#### *D. Timing of Enhanced Model Disclosure*

Some commenters requested that enhanced disclosure be provided in early January of each calendar year. Another commenter asserted that the benefits of a stress test model disclosure are maximized and costs are minimized when disclosure takes place after the stress tests are completed.

Consistent with the proposal, the Board expects to publish details about the models in the first quarter of each calendar year. Specifically, the Board expects to publish enhanced model descriptions for all models and enhanced modeled loss rate disclosures for two of the most material loan models in the first quarter of 2019. In 2020, the Board intends to revise enhanced model descriptions, as appropriate, and to publish enhanced modeled loss rate disclosures for two additional models.

Publication of the supervisory model disclosure prior to the release of the supervisory stress test results will help firms and the public anticipate the extent to which changes in supervisory results may result from changes in the models. In recent years, the Board has increased the information it provides to the public about supervisory models, and has detailed material model changes in an annual letter published in advance of the stress test. The Board believes that the benefits of providing that information in advance of the stress test outweigh the costs of doing so.

By order of the Board of Governors of the Federal Reserve System, February 22, 2019.

**Ann Misback,**

*Secretary of the Board.*

[FR Doc. 2019-03505 Filed 2-27-19; 8:45 am]

**BILLING CODE 6210-01-P**

## **FEDERAL RESERVE SYSTEM**

### **Agency Information Collection Activities: Announcement of Board Approval Under Delegated Authority and Submission to OMB**

**AGENCY:** Board of Governors of the Federal Reserve System.

**SUMMARY:** The Board of Governors of the Federal Reserve System (Board) is adopting a proposal to extend for three years, without revision, the Recordkeeping Provisions Associated with the Guidance on Sound Incentive Compensation Policies (FR 4027; OMB No. 7100-0327).

#### **FOR FURTHER INFORMATION CONTACT:**

Federal Reserve Board Clearance Officer—Nuha Elmaghrabi—Office of the Chief Data Officer, Board of Governors of the Federal Reserve System, Washington, DC 20551 (202) 452-3829. Telecommunications Device for the Deaf (TDD) users may contact (202) 263-4869, Board of Governors of the Federal Reserve System, Washington, DC 20551.

OMB Desk Officer—Shagufta Ahmed—Office of Information and Regulatory Affairs, Office of Management and Budget, New Executive Office Building, Room 10235, 725 17th Street NW, Washington, DC 20503 or by fax to (202) 395-6974.

**SUPPLEMENTARY INFORMATION:** On June 15, 1984, the Office of Management and Budget (OMB) delegated to the Board authority under the Paperwork Reduction Act (PRA) to approve and assign OMB control numbers to collection of information requests and requirements conducted or sponsored by the Board. Board-approved collections of information are

incorporated into the official OMB inventory of currently approved collections of information. Copies of the Paperwork Reduction Act Submission, supporting statements and approved collection of information instrument(s) are placed into OMB's public docket files. The Board may not conduct or sponsor, and the respondent is not required to respond to, an information collection that has been extended, revised, or implemented on or after October 1, 1995, unless it displays a currently valid OMB control number.

*Final approval under OMB delegated authority of the extension for three years, without revision, (or the implementation) of the following information collection:*

*Report title:* Recordkeeping Provisions Associated with the Guidance on Sound Incentive Compensation Policies.

*Agency form number:* FR 4027.

*OMB control number:* 7100-0327.

*Frequency:* Annual.

*Respondents:* Banking organizations.

*Estimated number of respondents:* One-time implementation for large institutions: 1; one-time implementation for small institutions: 1; ongoing maintenance: 5,710.

*Estimated average hours per response:* One-time implementation for large institutions: 480; one-time implementation for small institutions: 80; ongoing maintenance: 40.

*Estimated annual burden hours:* 228,960.

### **General Description of Report**

#### *Compatibility With Effective Controls and Risk Management*

Pursuant to Principle 2 of the Guidance, a banking organization's risk-management processes and internal controls should reinforce and support the development and maintenance of balanced incentive compensation arrangements. Principle 2 states that banking organizations should create and maintain sufficient documentation to permit an audit of the organization's processes for establishing, modifying, and monitoring incentive compensation arrangements. Additionally, large banking organizations should maintain policies and procedures that (i) identify and describe the role(s) of the personnel, business units, and control units authorized to be involved in the design, implementation, and monitoring of incentive compensation arrangements; (ii) identify the source of significant risk-related inputs into these processes and establish appropriate controls governing the development and approval of these inputs to help ensure their integrity; and (iii) identify the