

Table 2. Summary of planned capital actions, CCAR 2016

Item	2016:Q1	2016:Q2	2016:Q3	2016:Q4	2017:Q1	2017:Q2	2017:Q3	2017:Q4	2018:Q1	9-quarter
Dividends										
Common dividends/share (\$)										n/a
Common dividends										
Preferred dividends										
Repurchases and redemptions										
Common stock issuance										
Common stock repurchase (gross)										
Common stock repurchase (net)										
Preferred stock issuance										
Preferred stock repurchase (gross)										
Preferred stock repurchase (net)										
TruPS issuance										
TruPS repurchase (gross)										
TruPS repurchase (net)										
Subordinated debt issuance										
Subordinated debt repurchase (gross)										
Subordinated debt repurchase (net)										
Other capital instruments issuance										
Other capital instruments repurchase (gross)										
Other capital instruments repurchase (net)										
Millions of dollars										
n/a Not applicable.										
TruPS Trust preferred securities.										

FR Y-14A Summary Schedule under the BHC baseline scenario and on the FR Y-14A Regulatory Capital Instruments Schedule, and organize the description of the planned capital actions in a manner that permits comparison with the schedules. One method of organization would be a table, such as table 2, which presents the capital actions by type of capital instrument over the quarterly path.

Planned Capital Actions in Out-Quarters of Planning Horizon

A BHC should ensure that its projections of capital distributions in the three final quarters of the planning horizon (i.e., the quarters that are not subject to objection in the current capital plan cycle, referred to as “out-quarters”) are based on realistic assumptions about the future and in a manner broadly consistent with previous quarters. A BHC should only reflect a reduction in planned capital distributions in these out-quarters if the BHC has a justification to do so, based on its planned business activities and prudent

capital planning. Without explanation, the practice of suddenly reducing planned capital distributions in an out-quarter may be indicative of shortcomings in a BHC’s capital planning processes and may indicate that the assumptions and analysis underlying the capital plan, or the BHC’s methodologies for reviewing the robustness of its capital planning process, are not reasonable or appropriate.³⁰ Under the capital plan rule, the Federal Reserve may object to a capital plan if the assumptions and analyses underlying the BHC’s capital plan are not reasonable or appropriate.

Description of a BHC’s Process for Assessing Capital Adequacy

A BHC’s description of its process for assessing capital adequacy is an important component of its capital plan. As discussed in SR letters 15-18 and 15-19, a BHC’s capital planning process should have as its

³⁰ 12 CFR 225.8(f)(2)(ii)(B).

foundation a full understanding of the risks arising across all parts of the firm from its exposures and business activities, as well as scenario-based stress testing analytics, to ensure that it holds sufficient capital corresponding to those risks to maintain operations across the planning horizon.

The detailed description of a BHC's capital planning process should include a discussion of how, under stressful conditions, the BHC will maintain capital commensurate with its risks, including above minimum regulatory capital ratios and its internal capital goals. BHCs should primarily refer to SR letter 15-18 or 15-19, as relevant, for additional detail on the supervisory expectations for the capital planning process.³¹

Expected Changes to Business Plans Affecting Capital Adequacy or Funding

Each BHC should include in its capital plan a discussion of any expected changes to the BHC's business plan that are likely to have a material impact on the BHC's capital adequacy. Examples of changes to a business plan that may have a material impact could include a planned merger, acquisition, or divestiture; changes in key business strategies; or significant investments. For projections under the BHC baseline scenario, a BHC may include all planned mergers, acquisitions, and divestitures that represent the BHC's current view of the most likely outlook over the planning horizon. For projections under all other scenarios, the BHC should include planned mergers and acquisitions, reflecting the terms and conditions that would likely prevail under a given scenario, but only include divestitures that are completed or contractually committed to before the submission date of April 5, 2016.

In the discussion of the business plan change, the BHC should consider in its capital plan the effects of

³¹ See SR letter 15-18, "Federal Reserve Assessment of Capital Planning and Positions for LISC Firms and Large and Complex Firms," December 18, 2015, www.federalreserve.gov/bankinforeg/srletters/sr1518a1.pdf, and SR letter 15-19, "Federal Reserve Assessment of Capital Planning and Positions for Large and Noncomplex Firms," December 18, 2015, www.federalreserve.gov/bankinforeg/srletters/sr1519a1.pdf. For additional information please refer to the Board of Governors of the Federal Reserve System, *Capital Planning at Large Bank Holding Companies: Supervisory Expectations and Current Range of Practice* (Washington: Board of Governors, August 2013), www.federalreserve.gov/bankinforeg/bcreg20130819a1.pdf.

these expected changes and any potential adverse consequences in the event the actions do not result in the planned changes—e.g., a merger plan falls through, a change in business strategy is not achieved, or the BHC suffers a loss on the significant planned investment. In addition, a BHC should reflect material changes to the BHC's business plan in its FR Y-14A Summary and Business Plan Changes schedules, and provide relevant supporting documentation. Upon reviewing this information, the Federal Reserve may request additional information about the business plan change.

BHC subsidiaries of foreign banking organizations (FBOs): A BHC subsidiary of a FBO that will be designated as the U.S. intermediate holding company (IHC) for purposes of complying with the U.S. IHC requirement must include in its capital plan an assessment of how the transfers of subsidiary assets and liabilities in accordance with the U.S. IHC requirement would affect the BHC's capital adequacy over the planning horizon.³² The BHC must also reflect the transfers in the FR Y-14A Summary and Business Plan Changes schedules.

Organizing Capital Plan Submissions

Appendix A provides a suggested outline for both the capital plan narrative and supporting information, as well as defining the submission components and mapping them to the mandatory elements in the capital plan rule and the FR Y-14A Instructions.

Data Supporting a Capital Plan Submission

In conducting its assessment of a BHC's capital plan, the Federal Reserve relies on the completeness and accuracy of information provided by the BHC. A BHC's internal controls around data integrity are critical to assure the quality of the capital planning process. The financial records of the BHC should be maintained in such a manner and scope to ensure the FR Y-14 is prepared in accordance with these instructions and reflects a fair presentation of the BHC's financial condition and assessment of perfor-

³² A U.S. IHC established by a FBO for purposes of complying with the U.S. IHC requirement by July 1, 2016, that was not previously subject to CCAR will become subject to the capital plan rule beginning January 1, 2017. See 12 CFR part 252, subpart O.

mance under stressed scenarios.³³ Further, in SR letters 15-18 and 15-19 III.C, the Federal Reserve clarifies that a BHC should have a strong internal control framework that helps govern its internal capital planning processes, including stress testing performed under the CCAR program, and that framework should include comprehensive documentation of the BHC's policies and procedures.³⁴ A firm's internal audit function should play a key role in evaluating the adequacy of the firm's capital planning process and in assessing whether the risk-management and internal control practices supporting that process are comprehensive and effective. BHCs should refer to appendix E of SR letter 15-18 or 15-19, as relevant, for more information on the Federal Reserve's expectations for internal audit.

A BHC is expected to have procedures in place for meeting the accuracy requirements of the FR Y-14A, FR Y-14Q, and FR Y-14M and should be able to evaluate the results of such procedures.³⁵ As a best practice, these procedures would take into consideration the points in the data compilation and regulatory reporting systems and processes where a material misstatement could occur, as well as controls in place to mitigate those risks. In addition, a BHC should have information about any identified weaknesses in its controls around regulatory reporting and any plans to enhance the control structure around regulatory reporting.

FR Y-14 Data Submission

In general, all BHCs are required to report all data elements in the FR Y-14 schedules; however, certain schedules, worksheets, or data elements may be optional for a BHC. The instructions for the FR Y-14A, FR Y-14Q, and FR Y-14M schedules provide details about how to determine whether a BHC must submit a specific schedule, worksheet, or data element.

BHCs may be asked to resubmit FR Y-14 data—either in whole or in part—after the initial due date as specified in the associated report instructions should errors or omissions be found.³⁶ All resubmissions of FR Y-14Q and FR Y-14M data as of December 31,

2015, will be due on or before March 30, 2016. All resubmissions of FR Y-14A schedules will be due on or before April 25, 2016. (See “[Quantitative Assessments](#)” on page 16 for the treatment of unresolved data issues.)

Under the capital plan rule, failure to submit complete data to the Federal Reserve in a timely manner may be a basis for objection to a capital plan.³⁷ A BHC's inability to provide required data by the due dates may affect supervisory estimates of losses and PPNR for the BHC, and may affect the Federal Reserve's qualitative assessment of the internal risk-measurement and risk-management practices supporting a BHC's capital planning process.

FR Y-14A Summary Schedule Capital Worksheets

BHCs must complete capital worksheets on the FR Y-14A Summary Schedule to report their projections of capital components, risk-weighted assets, and capital ratios under each of the five scenarios described above.

With respect to a BHC's projections under the supervisory scenarios, the BHC must calculate two sets of pro forma capital ratios and complete (1) the Capital – CCAR worksheet (FR Y-14A Schedule A.1.d.1) using the BHC's planned capital actions in the BHC baseline scenario, and (2) the Capital – DFAST worksheet (FR Y-14A Schedule A.1.d.2) using the prescribed assumptions about capital actions under the Dodd-Frank Act stress test rules.

For the BHC-developed scenarios, a BHC should include only the Capital – CCAR worksheet (FR Y-14A Schedule A.1.d.1), and include projections using the BHC's expected capital actions as deemed appropriate by the BHC for that scenario and in accordance with the BHC's capital policies.

[Table 3](#) illustrates the capital actions used for each scenario's FR Y-14A Schedule.

CCAR and Pending Changes in Accounting Standards

The Financial Accounting Standards Board (FASB) has undertaken several projects to revise U.S. Generally Accepted Accounting Principles (US GAAP).

³³ Capital Assessment and Stress Testing Information Collection (FR Y-14A, FR Y-14Q, and FR Y-14M) (OMB No. 7100-0341).

³⁴ SR letters 15-18 and 15-19 III.C.

³⁵ See SR letters 15-18 and 15-19 appendix E.

³⁶ Due dates are specified in the FR Y-14Q and FR Y-14M General Instructions, which are available on the Federal Reserve

Board's website at www.federalreserve.gov/apps/reportforms/default.aspx. FR Y-14A schedules are due by April 5, 2016.

³⁷ See 12 CFR 225.8(f)(2)(ii).

Table 3. Capital worksheet requirements

Scenario	CCAR capital worksheet	DFAST capital worksheet
BHC baseline	Planned capital actions	n/a
Supervisory baseline*	Planned capital actions	DFA stress test capital actions
BHC stress	Alternative capital actions	n/a
Supervisory adverse	Planned capital actions	DFA stress test capital actions
Supervisory severely adverse	Planned capital actions	DFA stress test capital actions

* If a BHC determines the supervisory baseline scenario to be appropriate for its own BHC baseline, the BHC may submit identical FR Y-14A Summary schedules with the exception of the capital worksheets noted above. All BHCs must complete two capital worksheets for the supervisory baseline and supervisory severely adverse scenario.
n/a Not applicable.

These changes will have an impact on BHCs' financial reporting. The FASB has issued or expects to issue new accounting rules associated with revenue recognition, impairment of financial instruments, classification and measurement of financial instruments, and leases. The effective dates for these standards range from fiscal years beginning after Decem-

ber 15, 2017, to fiscal years beginning after December 15, 2020.³⁸

For the purposes of CCAR 2016, a BHC should not reflect the adoption of new accounting standards in its capital projections until the firm has adopted the accounting standard for financial reporting purposes. That is, a BHC should not reflect the effects of adoption of a new accounting standard for a projected period in its FR Y-14 submission if the standard was not effective December 31, 2015. If a BHC has already adopted a particular provision as of the submission date of the FR Y-14A, that adoption should be reflected for the information as of December 31, 2015, and for the subsequent projected quarters.

³⁸ The revenue recognition standard (ASU 2014-9, *Revenue from Contracts with Customers* (Topic 606)) is effective for interim and annual reporting periods beginning after December 15, 2017 (earlier application is permitted). The *Financial Instruments—Impairment* standard would be effective for fiscal years beginning after December 15, 2018, for Securities and Exchange Commission (SEC) filers and after December 15, 2019, for non-SEC filers. The *Financial Instruments—Classification and Measurement* standard is effective for annual and interim periods beginning after December 15, 2017. The *Leases* standard is effective for Public Business Entities for annual and interim periods beginning after December 15, 2018.

Federal Reserve Assessment of BHC Capital Plans

The Federal Reserve will review the supporting information in a BHC's capital plan—including the BHC's own stress test results—and will generate supervisory stress test estimates, using internally developed supervisory models and assumptions wherever possible.³⁹

Difference in Supervisory Expectations for Firms Based on Size and Complexity

As described in SR letters 15-18 and 15-19, the Federal Reserve's expectations for capital planning and capital adequacy processes for a firm are based upon the size, scope of operations, activities, and systemic importance of the firm. In particular, the Federal Reserve has significantly heightened expectations for the largest, most complex BHCs and expects them to have the most sophisticated, comprehensive, and robust capital planning processes.

Qualitative Assessments

The Federal Reserve can object to a BHC's capital plan based on its qualitative assessment. The reasons for a qualitative objection include, but are not limited to, the following:

- There are material unresolved supervisory issues.
- The assumptions and analyses underlying the BHC's capital plan are not reasonable or appropriate.
- The BHC's methodologies for reviewing the robustness of its capital planning process are not reasonable or appropriate.

- The CCAR assessment results in a determination that a BHC's capital planning process or proposed capital distributions would otherwise constitute an unsafe or unsound practice or would violate any law, regulation, Board order, directive, or any condition imposed by, or written agreement with, the Board.⁴⁰

In assessing the assumptions and analysis underlying a BHC's capital plan and the BHC's methodologies for reviewing the robustness of its capital planning process, the Federal Reserve's qualitative assessment places particular emphasis on the following six areas of a firm's capital planning, as outlined in SR letters 15-18 and 15-19: governance, risk management, internal controls, capital policies, scenario design, and projection methodologies.⁴¹ BHCs should refer to SR letter 15-18 or 15-19, as relevant, for detailed guidance on the Federal Reserve's expectations for these areas of capital planning.

If the Federal Reserve identifies substantial weaknesses in a BHC's capital planning process, or in key aspects of the risk-management and internal controls processes that support capital planning, that finding could result in an objection to a BHC's capital plan. However, a non-objection to a BHC's capital plan does not necessarily mean that a BHC is considered to have fully satisfactory practices supporting every element of its capital planning process.

Integration of CCAR into Year-Round Supervision

The Federal Reserve has taken steps to integrate CCAR into ongoing supervisory activities conducted throughout the year. Certain supervisory activities that are conducted throughout the year assess the BHC's practices and processes that are used, in part, to support its capital planning, including reviews that look at risk management, internal controls, audit,

³⁹ See Board of Governors of the Federal Reserve System, *Dodd-Frank Act Stress Test 2015: Supervisory Stress Test Methodology and Results* (Washington: Board of Governors, March 2015), www.federalreserve.gov/newsevents/press/bcreg/bcreg20150305a1.pdf.

⁴⁰ See 12 CFR 225.8(f)(2)(ii).

⁴¹ See SR letters 15-18 and 15-19.

Figure 1. Quantitative assessments of capital actions

Pro forma capital ratios	Common dividend payout ratio
BHC stress Alternative capital actions	
Supervisory adverse Planned capital actions DFA stress test capital actions	BHC baseline* Planned capital actions
Supervisory severely adverse Planned capital actions DFA stress test capital actions	Supervisory baseline* Planned capital actions DFA stress test capital actions

Note: Each box indicates a distinct scenario that will be submitted by each BHC. Planned capital actions are estimated by each BHC using the BHC baseline scenario, and the alternative capital actions are estimated under the BHC's stress scenario in accordance with the BHC's internal capital policies.

* If a BHC determines the supervisory baseline scenario to be appropriate for its own BHC baseline, the BHC may submit identical FR Y-14A Summary schedules with the exception of the capital worksheets noted above. All BHCs must complete two capital worksheets for the supervisory baseline and supervisory severely adverse scenario.

and corporate governance. Reviews of these areas inform the annual CCAR qualitative assessment. The integration also allows the Federal Reserve to consistently incorporate supervisory issues identified across the full range of examination work conducted throughout the year into the overall qualitative assessment. In turn, the CCAR qualitative assessment helps to highlight key weaknesses in a BHC's internal process that can result in additional supervisory scrutiny more broadly.

Throughout the year, specialist examiners closely monitor a BHC's progress toward meeting supervisory expectations, which provides additional information to support the CCAR qualitative assessment. The integration of the annual qualitative review into the year-round program allows the Federal Reserve to better assess the progress and quality of BHCs' efforts to address identified weaknesses in all capital planning-related practices. In turn, BHCs' progress toward meeting supervisory expectations is an important element of the CCAR qualitative assessment.

Quantitative Assessments

The quantitative assessments that the Federal Reserve undertakes in CCAR are summarized in figure 1.

Supervisory Post-Stress Capital Analysis

The Federal Reserve's supervisory post-stress capital analysis is based on the estimates of losses, revenues,

balances, risk-weighted assets, and capital from the Federal Reserve's supervisory stress test conducted under the Dodd-Frank Act.⁴² The supervisory projections are conducted under three hypothetical macroeconomic and financial market scenarios developed by the Federal Reserve: the supervisory baseline, supervisory adverse, and supervisory severely adverse scenarios.

The CCAR post-stress capital analysis uses the same data, models, and assumptions as supervisory stress testing conducted in accordance with the Dodd-Frank Act requirements, except that the CCAR analysis involves the BHCs' planned capital actions in the BHC baseline scenario rather than the capital action assumptions that are required in the stress testing rules. The CCAR analysis helps the Federal Reserve to assess whether a BHC would be capable of continuing to meet minimum capital requirements (the leverage, tier 1 risk-based, common equity tier 1 risk-based, and total risk-based capital ratios) throughout the planning horizon, even if adverse or severely adverse stress conditions emerged and the BHC did not reduce planned capital distributions.⁴³

⁴² For more on the methodology of the Federal Reserve's supervisory stress test, see Board of Governors of the Federal Reserve System, *Dodd-Frank Act Stress Test 2015: Supervisory Stress Test Methodology and Results* (Washington: Board of Governors, March 5, 2015), www.federalreserve.gov/newsevents/press/bcreg/bcreg20150305a1.pdf.

⁴³ The Board will not consider the capital conservation buffer distribution limitations in the CCAR 2016 planning horizon when calculating its post-stress capital ratios, and similarly, a BHC should not assume the operation of distribution limitations of the capital conservation buffer when conducting its stress tests.

In connection with Dodd-Frank Act supervisory stress testing and the annual CCAR exercise, the Federal Reserve will use the data and information provided in the FR Y-14 regulatory reports as of December 31, 2015 (except for trading and counterparty data). BHCs should review the instructions for each schedule to determine the appropriate submission date for each regulatory report. The Federal Reserve will apply conservative assumptions to any missing or otherwise deficient FR Y-14 data in producing supervisory estimates if such deficiencies are not remedied by March 31, 2016.

- **Missing data or data deficiency:** If a BHC's submitted data quality is deemed too deficient to produce a supervisory model estimate for a particular portfolio, the Federal Reserve may assign a high loss rate (e.g., 90th percentile) or a conservative PPNR rate (e.g., 10th percentile) to the portfolio balances based on supervisory projections of portfolio losses or PPNR estimated for other BHCs. If data that are direct inputs to supervisory models are missing or reported erroneously but the problem is isolated in a way that the existing supervisory framework can still be used, a conservative value (e.g., 10th or 90th percentile) based on all available data reported by BHC will be assigned to the specific data.
- **Immaterial portfolio:** Each BHC has the option to either submit or not submit the relevant data schedule for a given portfolio that does not meet a Materiality Threshold (as defined in FR Y-14Q and FR Y-14M instructions). If the BHC does not submit data on its immaterial portfolio(s), the Federal Reserve will assign a conservative loss rate (e.g., 75th percentile), based on the estimates for other BHCs. Otherwise, the Federal Reserve will estimate losses using data submitted by the BHC.
- **Assets and liabilities acquired in material business plan changes:** The Federal Reserve does not apply the missing data treatment, described above, to assets and liabilities that are expected to be acquired in a material business plan change during the planning horizon. Rather, the Federal Reserve will apply loss and PPNR estimates appropriate to the acquisition assets, liabilities, and business activities based on the Federal Reserve's assessment of all business plan change-related information submitted by the firm.

Common Dividend Payouts

The appropriateness of planned capital actions will also be evaluated based on the common dividend

payout ratio (common dividends relative to net income available to common shareholders) in the baseline scenario.

The Federal Reserve expects that capital plans will reflect conservative common dividend payout ratios. Specifically, requests that imply common dividend payout ratios above 30 percent of projected after-tax net income available to common shareholders in either the BHC baseline or supervisory baseline will receive particularly close scrutiny. In reviewing such requests, one consideration will be the BHC's ability to meet its baseline earnings projections over the planning horizon, including the demonstrated strength of core earnings, effectiveness of baseline earnings projections, and earnings volatility over time.

Limited Adjustments to Planned Capital Actions

Upon completion of the quantitative and qualitative assessments of BHCs' capital plans, but before the disclosure of the final CCAR results, the Federal Reserve will provide each BHC with the results of the post-stress capital analysis for its BHC, and each BHC will have an opportunity to make a one-time adjustment to planned capital distributions. The only adjustment that will be considered is a reduction in capital distributions (i.e., common stock dividends or repurchases or redemptions of common stock, preferred stock, or other instruments eligible for inclusion in regulatory capital) relative to those initially submitted in the BHC's original capital plan. The Board's final decision to object or not object will be based on the BHC adjusted capital distributions (if any).

As noted above, the Federal Reserve has observed a practice whereby some BHCs have adjusted only the distributions in the out-quarters of the planning horizon—i.e., those that are not subject to objection in the current CCAR exercise. For CCAR 2016, those would be the projected third and fourth quarters of 2017 and first quarter of 2018. In the absence of supporting actions, such as a firm actually cutting distributions in these quarters, this practice erodes the credibility of a BHC's capital plan. Accordingly, to support the credibility of its capital plan, a BHC that makes a one-time adjustment to its planned capital distributions should avoid concentrating the adjustment in the quarters not subject to objection in CCAR 2016 without providing an explanation.

Federal Reserve Responses to Planned Capital Actions

Based on the results of the qualitative and quantitative assessment, the Federal Reserve will determine whether or not to object to a capital plan.

For purposes of CCAR 2016, if a BHC receives a non-objection to its capital plan, the BHC generally may make the capital distributions included in its capital plan submission beginning on July 1, 2016, through June 30, 2017, without seeking prior approval from or providing prior notice to the Federal Reserve. (See “[Execution of Capital Plan and Requests for Additional Distributions](#)” on page 19.)

If the BHC receives an objection to its capital plan, the BHC may not make any capital distribution other than those capital distributions with respect to which the Federal Reserve has indicated in writing its non-objection. In this instance, the Federal Reserve may still authorize the BHC to undertake certain distributions set forth in its capital plan.

The Federal Reserve reserves the authority to object to capital distributions in future quarters or require a resubmitted capital plan if there is a material change in the BHC’s risk profile (including a material change in its business strategy or any risk exposure), financial condition, or corporate structure, or if changes in financial markets or the macroeconomic outlook that could have a material impact on the BHC’s risk profile and financial condition require the use of updated scenarios.

Disclosure of Supervisory Assessments

At the completion of the CCAR process, the Federal Reserve will publicly disclose its decision to object or not object to a BHC’s capital plan.

The Federal Reserve will include in its CCAR disclosure the results of its post-stress capital analysis for each BHC, including BHC-specific post-stress regulatory capital ratios (tier 1 leverage, common equity tier 1 risk-based, tier 1 risk-based, and total risk-based capital ratios) estimated in the adverse and severely adverse scenarios. These results will be based on the same loss and PPNR estimates derived in the Dodd-Frank Act stress tests, combined with planned capital actions as provided by each BHC under the

BHC baseline scenario. The disclosed information will include minimum values of these ratios over the planning horizon, using the originally submitted planned capital actions under the baseline scenario and any adjusted capital distributions in the final capital plans, as applicable. (See [appendix B](#) for the format that will be used to publish these data.) In addition to disclosing a summary of its quantitative assessment of the BHC’s capital plans, the Federal Reserve will disclose the reasons for any objections to specific BHCs’ capital plans on qualitative grounds. This will include information about weaknesses in a BHC’s practices that led to an objection to the BHC’s capital plan for qualitative reasons.

In a separate document, the Federal Reserve will disclose the detailed results of supervisory stress tests for each BHC under both the adverse and the severely adverse supervisory scenarios, including stressed losses and revenues, and the post-stress capital ratios based on the capital action assumptions required under the Dodd-Frank Act stress test rules, along with an overview of methodologies used for supervisory stress tests. (See [appendix C](#) for the format that will be used to publish these data.)

The Federal Reserve will publish the CCAR and DFAST results documents by June 30, 2016. BHCs are required to disclose the results of their company-run stress tests within 15 days of the date the Board discloses the results of its Dodd-Frank Act supervisory stress test.

Resubmissions

If a BHC receives an objection to its capital plan, it may choose to resubmit its plan in advance of the next CCAR exercise in the following year.

Pursuant to the capital plan rule, a BHC must revise and resubmit its capital plan if it determines there has been or will be a material change in the BHC’s risk profile (including a material change in its business strategy or any material-risk exposures), financial condition, or corporate structure since the BHC adopted the capital plan.⁴⁴ Further, the Federal Reserve may direct a BHC to revise and resubmit its capital plan for a number of other reasons, including if a stress scenario developed by the BHC is no longer appropriate to its business model and portfolios or if changes in financial markets or the macroeco-

⁴⁴ 12 CFR 225.8(e)(4)(i)(A).

conomic outlook that could have a material impact on a BHC's risk profile and financial condition requires the use of updated scenarios.⁴⁵

Submissions that are late, incomplete, or otherwise unclear could result in an objection to the resubmitted plan. Based on a review of a BHC's capital plan, supporting information, and data submissions, the Federal Reserve may require additional supporting information or analysis from a BHC, or require it to revise and resubmit its plan. Any of these may also result in the delay of evaluation of capital actions until a subsequent calendar quarter.

Execution of Capital Plan and Requests for Additional Distributions

Subject to certain exceptions, the capital plan rule provides that a BHC must request prior approval of a capital distribution if the dollar amount of the capital distribution will exceed the amount described in the capital plan for which a non-objection was issued.⁴⁶ In addition, a BHC generally must request the Board's non-objection for capital distributions included in the BHC's capital plan if the BHC has issued less capital of a given class of regulatory capital instrument (net of distributions) than the BHC had included in its capital plan, measured cumulatively, beginning with the third quarter of the planning horizon.⁴⁷

⁴⁵ 12 CFR 225.8(e)(4)(i)(B).

⁴⁶ BHCs are not required to provide prior notice and seek approval for distributions involving issuances of instruments that would qualify for inclusion in the numerator of regulatory capital ratios that were not included in the BHC's capital plan. See 12 CFR 225.8(g)(2)(iii)(B).

⁴⁷ The classes of regulatory capital instruments are common equity tier 1, additional tier 1, and tier 2 capital instruments, as defined in 12 CFR 217.2. BHCs are not required to provide prior notice and seek approval for distributions included in their capital plans that are scheduled payments on additional tier 1 or tier 2 capital. Additionally, BHCs are not required to provide prior notice and seek approval where the shortfall in capital issuance (net of distributions) is due to employee-directed capital issuances related to an employee stock ownership plan; a planned merger or acquisition that is no longer expected to be consummated or for which the consideration paid is lower than the projected price in the capital plan; or if aggregate excess net

A BHC should notify the Federal Reserve as early as possible before redeeming any capital instrument that counts as regulatory capital and that was not included in its capital plan, or if it has excess net distributions.⁴⁸ As with all formal communications on CCAR-related issues, a BHC should use the CCAR Communications mailbox to submit any requests for capital distributions (gross or net) not included in its capital plan.

Any such requests should reflect the change in the BHC's planned capital issuances and any other relevant changes in the capital plan. The BHC may be required to submit additional supporting information, including a revised capital plan, the BHC's forward-looking assessment of its capital adequacy under revised scenarios, any supporting information, and a description of any quantitative methods used that are different than those used in its original capital plan.⁴⁹ The Federal Reserve will examine performance relative to the initial projections and the rationale for the request.

Under the capital plan rule, the Federal Reserve may object to a BHC's capital plan if the assumptions and analysis underlying the capital plan, or the BHC's methodologies for reviewing the robustness of its capital planning process, are not reasonable or appropriate.⁵⁰ A BHC's consistent failure to execute planned capital issuances may be indicative of shortcomings in its capital planning processes and may indicate that the assumptions and analysis underlying the BHC's capital plan, or the BHC's methodologies for reviewing the robustness of its capital planning process, are not reasonable or appropriate. Accordingly, a consistent failure to execute capital issuances as indicated in its capital plan may form the basis for objection if the BHC is unable to explain the discrepancies between its planned and executed capital issuances.

distributions is less than 1 percent of the BHC's tier 1 capital. See 12 CFR 225.8(g)(2)(iii).

⁴⁸ See 12 CFR 225.8(g) for circumstances under which approval would be required where a BHC had received a non-objection to its capital plan.

⁴⁹ See 12 CFR 225.8(g)(4).

⁵⁰ 12 CFR 225.8(f)(2)(ii)(B).

Appendix A: Organizing Capital Plan Submissions

When submitting materials to the secure collaboration site, BHCs may categorize each component in order to facilitate identification and review of relevant documentation. Table A.1 shows the categorization system that may be used for submissions to the secure collaboration site.

Capital Plan Narrative

This section outlines a potential organizational structure for a BHC’s capital plan narrative. Components of this structure that reflect one of the four mandatory elements of a capital plan under the capital plan rule are noted (see the section “Mandatory Elements of a Capital Plan” on page 5 for more information).

- **Capital plan**—provides a summary of the BHC’s capital plan and the pro forma financial results under the different scenarios evaluated as part of the capital planning process. The document should summarize the BHC’s proposed capital actions, the various scenarios used in the capital planning process, the key risks and drivers of financial performance under each scenario, key assumptions, and other relevant information.
- **Capital policies**—provides the BHC’s policies outlining the principles and guidelines used for capital planning, capital issuance, usage, and distributions (*mandatory element 3*).
- **Planned capital actions**—provides (1) a description of all planned capital actions over the planning horizon and (2) a summary of all capital actions by instrument quarterly over the nine-quarter path, which should align with the capital actions included in the FR Y-14A Summary and Regulatory Capital Instruments schedules (*mandatory element 1(d)*). (See “Description of All Capital Actions Assumed over the Planning Horizon” on page 8.)
- **Capital planning process**—provides a detailed description of the BHC’s process for assessing capital adequacy, including key assumptions, and limitations (*mandatory element 2*).
- **Risk-identification program overview**—describes the risk-identification process the BHC uses to support the BHC-wide stress testing required in the capital plans and how these risks are captured in the BHC’s capital planning process.
- **BHC scenario design process overview**—describes the BHC’s process and approach to developing the BHC baseline and BHC stress scenarios, including all methodologies, variables and key assumptions, and how the BHC stress scenarios address the BHC’s particular vulnerabilities. (See “BHC Scenarios” on page 8.)
- **Material business plan changes**—provides a discussion of any expected changes to the BHC’s business plan that are likely to have a material impact on the BHC’s capital adequacy and funding profile (e.g., a proposed merger, acquisition, or divestiture; changes in key business strategies; or significant investments) (*mandatory element 4*).
- **Summary of assumptions, limitations, and weaknesses**—provides credible support for all assumptions used to derive loss estimates, including assumptions related to the components of loss, severity of loss, and any known weaknesses in the translation of assumptions into loss estimates.
- **Governance framework**—describes internal governance around the development of the BHC’s comprehensive capital plan. Documentation should demonstrate that senior management has provided the board of directors with sufficient information to facilitate the board’s full understanding of stress testing used by the firm for capital planning purposes.
- **Summary of audit findings**—provides a summary of the most recent findings and conclusions from a review of the BHC’s capital planning process carried out by internal audit or an independent party. In the discussion, the BHC should describe the

scope of audit work and specifically identify any areas of the end-to-end capital planning process that have not been independently reviewed.

If the BHC chooses to organize its capital plan narrative in the format set forth above, the capital plan narrative elements may be submitted as one large file, as individual files, or as several files that combine various elements. When uploading these documents to the secure collaboration site, a BHC should follow these instructions:

1. For document type, categorize all documents as “Capital plan narrative.”
2. For document subtype, please choose the appropriate category from the list below based on the descriptions above.
 - *Document subtype categories:* (1) Complete narrative, (2) Capital plan summary, (3) Capital policy, (4) Planned capital actions, (5) Capital planning process, (6) Risk-identification and risk inventory, (7) BHC scenario design process overview, (8) Material business plan changes, (9) Assumptions – limitations – weaknesses, (10) Governance framework, (11) Summary of audit findings, and (12) Other
 - If the entire capital plan narrative (i.e., all elements above) is in one file, please choose “Complete narrative.”
 - If combining some of the elements above into one file, please choose “Other” and provide a description of the supporting document in the “Other – defined” field.
 - If supporting documentation does not fit one of the defined elements above, please choose “Other” and provide a description of the supporting document in the “Other – defined” field.

Capital Plan and FR Y-14A Supporting Documentation

This section outlines a potential organizational structure for the required documentation that each BHC must submit through the collaboration site to support the capital plan and the FR Y-14A schedules. All model and methodology documentation described below should be organized by the following work streams: retail, wholesale, fair value option and held-for-sale loans, securities, trading, counterparty, operational risk, pre-provision net revenue (PPNR),

mortgage-servicing rights (MSR), and regulatory capital transitions. This supporting documentation also addresses *mandatory element 1* under the capital plan rule.

- **Policies and procedures**—all policies and procedures related to the capital planning process, including the BHC’s model risk management policy. (See the FR Y-14A Instructions and SR letters 15-18 and 15-19 for specific supervisory expectations for a model risk management policy.)
- **Methodology and model inventory mapping to FR Y-14A**—provides an inventory of all models and methodologies used to estimate losses, revenues, expenses, balances, and risk-weighted assets and the status of validation/independent review for each. As required by the FR Y-14A Instructions, documentation should also include mapping that clearly conveys the methodology used for each FR Y-14A product line under each stress scenario.
- **Methodology documentation**—Methodology documentation should include, at a minimum, the following documents:⁵¹
 - Methodology and process overview**—describes key methodologies and assumptions for performing stress testing on the BHC’s portfolios, business, and performance drivers. Documentation should clearly describe the model-development process, the derivation of outcomes, and validation procedures as well as assumptions concerning the evolution of balance sheet and risk-weighted assets under the scenarios, changing business strategies, and other impacts to a BHC’s risk profile. Supporting documentation should clearly describe any known model weaknesses and how such information is factored into the capital plan.⁵²
 - Model technical documents**—BHCs should include thorough documentation in their capital plan submissions that describes and makes transparent key methodologies and assumptions for performing stress testing on the BHC’s portfolios. In particular, the design, theory, and logic underlying the methodology should be well-documented and generally supported by published research and sound industry practice.⁵³

⁵¹ See appendix A of Capital Assessment and Stress testing information collection (FR Y-14A) (OMB No. 7100-0341).

⁵² Ibid.

⁵³ Ibid.

—**Model validation**—Models employed by BHCs (either developed internally or supplied by a vendor) should be independently validated or otherwise reviewed in line with model risk management expectations presented in existing supervisory guidance, including SR letter 11-7 and SR letters 15-18 and 15-19. Institutions should provide model validation documentation developed in accordance with their internal policies and consistent with supervisory expectations. (See appendix A of the FR Y-14A Instructions.)

—**Audit reports**—BHCs should submit audit reports from their internal audit of the capital planning process including reviews of the models and methodologies used in the process. (See appendix A of the FR Y-14A Instructions.)

—**Results finalization and challenge materials**—BHCs should ensure that they have sound processes for review, challenge, and aggregation of estimates used in their capital planning processes. This category would be used to provide any documentation relating to the review, challenge, and aggregation processes and the finalization of results that ensures transparency and repeatability. (See appendix A of the FR Y-14A Instructions.)

Methodology documentation should be provided in accordance with the supporting documentation requirements outlined in the appendix of the FR Y-14A Instructions as follows:

—**Retail** – See A.2 in the appendix.

—**Wholesale** – See A.3 in the appendix.

—**Fair value option and held-for-sale loans** – See A.4 in the appendix.

—**AFS/HTM securities** – See A.5 in the appendix.

—**Trading** – See A.6 in the appendix.

—**Counterparty credit risk** – See A.7 in the appendix.

—**Operational risk** – See A.8 in the appendix.

—**PPNR** – See A.9 in the appendix.

—**MSR** – See A.10 in the appendix.

—**Regulatory capital transitions** – See Schedule D in the appendix.

- **Consolidated pro forma financials methodology**—describes (1) how the various balance sheet and income statement line items were developed and

reported; (2) the specific assumptions used to calculate regulatory capital, including a discussion of any proposed capital distributions; and (3) any other information necessary to understand the BHC's capital calculations (e.g., calculations related to the projections of the deferred tax asset or servicing assets that may be disallowed for regulatory capital purposes). *Methodology documentation should be provided in accordance with the supporting documentation requirements outlined in A.1 of the appendix of the FR Y-14A Instructions for the Income Statement, Balance Sheet, and Capital worksheets.*

If a BHC chooses to organize its capital plan and FR Y-14A supporting documentation in the format set forth above, the BHC should follow these instructions:

1. For document type, categorize all supporting documents as “Supporting materials.”
 - Do NOT categorize any FR Y-14 supporting documentation as “FR Y-14 Schedule.” That category is for FR Y-14 schedules only—that is, Excel or XML files only.
2. For document subtype, please choose the appropriate category from the list below based on the descriptions above.
 - *Document subtype categories:* (1) Policies and procedures, (2) Methodology inventory mapped to FR Y-14A, (3) Methodology and process overview, (4) Model technical documents, (5) Model validation, (6) Audit reports, (7) Results finalize & challenge materials, (8) Cons pro forma financials methodology, and (9) Other
 - If you have combined some of the elements above into one file, please choose “Other” and provide a description of the supporting document in the “Other – defined” field.
 - If you have supporting documentation that does not fit one of the defined elements above, please choose “Other” and provide a description of the supporting document in the “Other – defined” field.
3. In the “Comment” field, please provide the information described in the appendix of the FR Y-14A Instructions for each supporting document.
4. For the work stream, please choose the appropriate category from the list below.

- *Work stream categories:* (1) General, (2) Wholesale, (3) Retail, (4) Operational risk, (5) Securities, (6) Trading, (7) Counterparty, (8) PPNR – balance sheet – RWA, and (9) Regulatory capital.
- All supporting documentation should be categorized by one of the specific work-stream categories above. The “General” category should

only be used for (1) policies and procedures that are not related to a specific work stream, (2) the model/methodology inventory, (3) consolidated pro forma financials methodology, and (4) any documentation on results finalization and the challenge process that are not work-stream specific.

Table A.1. Capital plan submission categorization scheme

Submission type (REQUIRED)	Submission subtype (REQUIRED)	Supporting materials only	
		Comment (OPTIONAL) ¹	Topic (REQUIRED)
Capital plan narrative	Complete narrative Capital plan Capital policy Planned capital actions Capital adequacy process Risk-identification program overview BHC scenario design process overview Material business plan changes Assumptions - limitations - weaknesses Governance framework Summary of audit findings Other (please define)		
Supporting documents (capital plan & FR Y-14)	Policies and procedures Methodology inventory mapped to Y-14A Methodology and process overview Model technical document Model validation Audit report Results finalize & challenge materials Cons pro forma financials methodology Contact list Other (please define) ²		General Wholesale Retail Operational risk Securities Trading Counterparty PPNR - balance sheet - RWA Regulatory capital
FR Y-14 schedule (OFFICIAL TEMPLATES) ³	Y-14A - Sch A - Summary Y-14A - Sch B - Scenario Y-14A - Sch C - Reg cap instruments Y-14A - Sch D - Reg cap transitions Y-14A - Sch E - Ops risk Y-14A - Sch F - Business plan changes Y-14Q - Sch A - Retail Y-14Q - Sch B - Securities Y-14Q - Sch C - Reg cap instruments Y-14Q - Sch D - Reg cap transitions Y-14Q - Sch E - Ops risk Y-14Q - Sch F - Trading Y-14Q - Sch G - PPNR Y-14Q - Sch H - Wholesale Y-14Q - Sch I - MSR valuation Y-14Q - Sch J - FVO/HFS Y-14Q - Sch K - Supplemental Y-14Q - Sch L - Counterparty Y-14Q - Sch M - Balances		

¹ See FR Y-14A Instructions, Appendix A: Supporting Documentation.

² If BHC selects “Other,” it will be prompted to provide a description of the submission.

³ These will be additional submission categories for special collections in CCAR 2016.

Appendix B: Templates for Comprehensive Capital Analysis and Review Results 2016

This appendix provides the format that the Federal Reserve will use to disclose the results of the supervisory stress test under the Comprehensive Capital Analysis and Review.

Tables begin on next page.

**Table B.1. Projected minimum common equity tier 1 ratio in the severely adverse scenario, 2016:Q1–2018:Q1:
All bank holding companies**

Bank holding company	Stressed ratio with original planned capital actions	Stressed ratio with adjusted planned capital actions
Ally Financial Inc.		
American Express Company		
BancWest Corporation		
Bank of America Corporation		
The Bank of New York Mellon Corporation		
BB&T Corporation		
BBVA Compass Bancshares, Inc.		
BMO Financial Corp.		
Capital One Financial Corporation		
Citigroup Inc.		
Citizens Financial Group, Inc.		
Comerica Incorporated		
Deutsche Bank Trust Corporation		
Discover Financial Services		
Fifth Third Bancorp		
The Goldman Sachs Group, Inc.		
HSBC North America Holdings Inc.		
Huntington Bancshares Incorporated		
JPMorgan Chase & Co.		
KeyCorp		
M&T Bank Corporation		
Morgan Stanley		
MUFG Americas Holdings Corporation		
Northern Trust Corporation		
The PNC Financial Services Group, Inc.		
Regions Financial Corporation		
Santander Holdings USA, Inc.		
State Street Corporation		
SunTrust Banks, Inc.		
TD Group US Holdings LLC		
U.S. Bancorp		
Wells Fargo & Company		
Zions Bancorporation		

Note: These projections represent hypothetical estimates that involve an economic outcome that is more adverse than expected. These estimates are not forecasts of capital ratios. The tables include the minimum ratios assuming the capital actions originally submitted in April 2016 by the bank holding companies (BHCs) in their annual capital plans and the minimum ratios incorporating any adjustments to capital distributions made by BHCs after reviewing the Federal Reserve's stress test projections and original planned capital distributions for those BHCs that did not make adjustments. The minimum capital ratios are for the period 2016:Q1 to 2018:Q1 and do not necessarily occur in the same quarter.

Source: Federal Reserve estimates in the severely adverse scenario.

**Table B.2. Projected minimum common equity tier 1 ratio in the adverse scenario, 2016:Q1–2018:Q1:
All bank holding companies**

Bank holding company	Stressed ratio with original planned capital actions	Stressed ratio with adjusted planned capital actions
Ally Financial Inc.		
American Express Company		
BancWest Corporation		
Bank of America Corporation		
The Bank of New York Mellon Corporation		
BB&T Corporation		
BBVA Compass Bancshares, Inc.		
BMO Financial Corp.		
Capital One Financial Corporation		
Citigroup Inc.		
Citizens Financial Group, Inc.		
Comerica Incorporated		
Deutsche Bank Trust Corporation		
Discover Financial Services		
Fifth Third Bancorp		
The Goldman Sachs Group, Inc.		
HSBC North America Holdings Inc.		
Huntington Bancshares Incorporated		
JPMorgan Chase & Co.		
KeyCorp		
M&T Bank Corporation		
Morgan Stanley		
MUFG Americas Holdings Corporation		
Northern Trust Corporation		
The PNC Financial Services Group, Inc.		
Regions Financial Corporation		
Santander Holdings USA, Inc.		
State Street Corporation		
SunTrust Banks, Inc.		
TD Group US Holdings LLC		
U.S. Bancorp		
Wells Fargo & Company		
Zions Bancorporation		

Note: These projections represent hypothetical estimates that involve an economic outcome that is more adverse than expected. These estimates are not forecasts of capital ratios. The tables include the minimum ratios assuming the capital actions originally submitted in April 2016 by the bank holding companies (BHCs) in their annual capital plans and the minimum ratios incorporating any adjustments to capital distributions made by BHCs after reviewing the Federal Reserve's stress test projections and original planned capital distributions for those BHCs that did not make adjustments. The minimum capital ratios are for the period 2016:Q1 to 2018:Q1 and do not necessarily occur in the same quarter.

Source: Federal Reserve estimates in the adverse scenario.

Table B.3. BHC XYZ, Inc.

Actual and minimum projected regulatory capital ratios, actual 2015:Q4 and projected 2016:Q1–2018:Q1

Federal Reserve estimates: Severely adverse scenario

Actual 2015:Q4 and projected capital ratios through 2016:Q4			
Percent			
Regulatory ratio	Actual 2015:Q4	Minimum stressed ratios	
		Original planned capital actions	Adjusted planned capital actions
Common equity tier 1 capital ratio			
Tier 1 risk-based capital ratio			
Total risk-based capital ratio			
Tier 1 leverage ratio			
<p>Note: These projections represent hypothetical estimates that involve an economic outcome that is more adverse than expected. These estimates are not forecasts of capital ratios. The tables include the minimum ratios assuming the capital actions originally submitted in April 2016 by the bank holding companies (BHCs) in their annual capital plans and the minimum ratios incorporating any adjustments to capital distributions made by BHCs after reviewing the Federal Reserve's stress test projections and original planned capital distributions for those BHCs that did not make adjustments. The minimum capital ratios are for the period 2016:Q1 to 2018:Q1 and do not necessarily occur in the same quarter.</p>			

Required minimum capital ratios for BHCs in CCAR 2016	
Percent	
Regulatory ratio	Minimum ratio
Common equity tier 1 capital ratio	4.5
Tier 1 risk-based capital ratio	6.0
Total risk-based capital ratio	8.0
Tier 1 leverage ratio	4.0
<p>Note: All ratios are calculated in accordance with the transition arrangements provided in the Board's revised capital framework, issued in July 2013.</p>	

Table B.4. BHC XYZ, Inc.

Actual and minimum projected regulatory capital ratios, actual 2015:Q4 and projected 2016:Q1–2018:Q1

Federal Reserve estimates: Adverse scenario

Actual 2015:Q4 and projected capital ratios through 2016:Q4			
Percent			
Regulatory ratio	Actual 2015:Q4	Minimum stressed ratios	
		Original planned capital actions	Adjusted planned capital actions
Common equity tier 1 capital ratio			
Tier 1 risk-based capital ratio			
Total risk-based capital ratio			
Tier 1 leverage ratio			
<p>Note: These projections represent hypothetical estimates that involve an economic outcome that is more adverse than expected. These estimates are not forecasts of capital ratios. The tables include the minimum ratios assuming the capital actions originally submitted in April 2016 by the bank holding companies (BHCs) in their annual capital plans and the minimum ratios incorporating any adjustments to capital distributions made by BHCs after reviewing the Federal Reserve's stress test projections and original planned capital distributions for those BHCs that did not make adjustments. The minimum capital ratios are for the period 2016:Q1 to 2018:Q1 and do not necessarily occur in the same quarter.</p>			

Required minimum capital ratios for BHCs in CCAR 2016	
Percent	
Regulatory ratio	Minimum ratio
Common equity tier 1 capital ratio	4.5
Tier 1 risk-based capital ratio	6.0
Total risk-based capital ratio	8.0
Tier 1 leverage ratio	4.0
<p>Note: All ratios are calculated in accordance with the transition arrangements provided in the Board's revised capital framework, issued in July 2013.</p>	

Appendix C: Templates for Dodd-Frank Act Stress Testing Results 2016

This appendix provides the format that the Federal Reserve will use to disclose the results of the supervisory stress test in accordance with the Dodd-Frank Act stress test rules.

Tables begin on next page.

**Table C.1. Projected minimum common equity tier 1 ratio in the severely adverse scenario, 2016:Q1–2018:Q1:
All bank holding companies**

Bank holding company	Stressed ratios with DFA stress testing capital action assumptions
Ally Financial Inc.	
American Express Company	
BancWest Corporation	
Bank of America Corporation	
The Bank of New York Mellon Corporation	
BB&T Corporation	
BBVA Compass Bancshares, Inc.	
BMO Financial Corp.	
Capital One Financial Corporation	
Citigroup Inc.	
Citizens Financial Group, Inc.	
Comerica Incorporated	
Deutsche Bank Trust Corporation	
Discover Financial Services	
Fifth Third Bancorp	
The Goldman Sachs Group, Inc.	
HSBC North America Holdings Inc.	
Huntington Bancshares Incorporated	
JPMorgan Chase & Co.	
KeyCorp	
M&T Bank Corporation	
Morgan Stanley	
MUFG Americas Holdings Corporation	
Northern Trust Corporation	
The PNC Financial Services Group, Inc.	
Regions Financial Corporation	
Santander Holdings USA, Inc.	
State Street Corporation	
SunTrust Banks, Inc.	
TD Group US Holdings LLC	
U.S. Bancorp	
Wells Fargo & Company	
Zions Bancorporation	

Note: The common equity tier 1 ratio is calculated using the definitions of capital and risk-weighted assets that are in effect during a particular planning horizon quarter. These projections represent hypothetical estimates that involve an economic outcome that is more adverse than expected. These estimates are not forecasts of capital ratios. The minimum stressed ratios (%) are the lowest quarterly ratios from 2016:Q1 to 2018:Q1 under the severely adverse scenario.

Source: Federal Reserve estimates in the severely adverse scenario. Stressed ratios with Dodd-Frank Act capital action assumptions through 2018:Q1.

**Table C.2. Projected minimum common equity tier 1 ratio in the adverse scenario, 2016:Q1–2018:Q1:
All bank holding companies**

Bank holding company	Stressed ratios with DFA stress testing capital action assumptions
Ally Financial Inc.	
American Express Company	
BancWest Corporation	
Bank of America Corporation	
The Bank of New York Mellon Corporation	
BB&T Corporation	
BBVA Compass Bancshares, Inc.	
BMO Financial Corp.	
Capital One Financial Corporation	
Citigroup Inc.	
Citizens Financial Group, Inc.	
Comerica Incorporated	
Deutsche Bank Trust Corporation	
Discover Financial Services	
Fifth Third Bancorp	
The Goldman Sachs Group, Inc.	
HSBC North America Holdings Inc.	
Huntington Bancshares Incorporated	
JPMorgan Chase & Co.	
KeyCorp	
M&T Bank Corporation	
Morgan Stanley	
MUFG Americas Holdings Corporation	
Northern Trust Corporation	
The PNC Financial Services Group, Inc.	
Regions Financial Corporation	
Santander Holdings USA, Inc.	
State Street Corporation	
SunTrust Banks, Inc.	
TD Group US Holdings LLC	
U.S. Bancorp	
Wells Fargo & Company	
Zions Bancorporation	

Note: The common equity tier 1 ratio is calculated using the definitions of capital and risk-weighted assets that are in effect during a particular planning horizon quarter. These projections represent hypothetical estimates that involve an economic outcome that is more adverse than expected. These estimates are not forecasts of capital ratios. The minimum stressed ratios (%) are the lowest quarterly ratios from 2016:Q1 to 2018:Q1 under the adverse scenario.

Source: Federal Reserve estimates in the adverse scenario. Stressed ratios with Dodd-Frank Act capital action assumptions through 2018:Q1.

Table C.3. BHC XYZ, Inc.

Projected stressed capital ratios, risk-weighted assets, losses, revenues, net income before taxes, and loan losses

Federal Reserve estimates: Severely adverse scenario

Capital ratios, actual 2015:Q4 and projected 2016:Q1–2018:Q1			
Percent			
Regulatory ratio	Actual 2015:Q4	Projected stressed capital ratios ¹	
		Ending	Minimum
Common equity tier 1 capital ratio			
Tier 1 risk-based capital ratio			
Total risk-based capital ratio			
Tier 1 leverage ratio			

¹ The capital ratios are calculated using capital action assumptions provided within the Dodd-Frank Act stress testing rule. These projections represent hypothetical estimates that involve an economic outcome that is more adverse than expected. These estimates are not forecasts of expected losses, revenues, net income before taxes, or capital ratios. The minimum capital ratio presented is for the period 2016:Q1 to 2018:Q1.

Projected loan losses, by type of loan, 2016:Q1–2018:Q1		
Loan type	Billions of dollars	Portfolio loss rates (percent) ¹
First-lien mortgages, domestic		
Junior liens and HELOCs, domestic		
Commercial and industrial ²		
Commercial real estate, domestic		
Credit cards		
Other consumer ³		
Other loans ⁴		
Total projected loan losses		

¹ Average loan balances used to calculate portfolio loss rates exclude loans held for sale and loans held for investment under the fair-value option, and are calculated over nine quarters.

² Commercial and industrial loans include small- and medium-enterprise loans and corporate cards.

³ Other consumer loans include student loans and automobile loans.

⁴ Other loans include international real estate loans.

Risk-weighted assets, actual 2015:Q4 and projected 2018:Q1		
Billions of dollars		
Item	Actual 2015:Q4	Projected 2018:Q1
Risk-weighted assets ¹		

¹ Risk-weighted assets are calculated under the Basel III standardized capital risk-based approach.

Projected losses, revenue, and net income before taxes through 2018:Q1		
Item	Billions of dollars	Percent of average assets ¹
Pre-provision net revenue ²		
Other revenue ³		
<i>less</i>		
Provisions		
Realized losses/gains on securities (AFS/HTM)		
Trading and counterparty losses ⁴		
Other losses/gains ⁵		
<i>equals</i>		
Net income before taxes		
Memo items		
Other comprehensive income ⁶		
<i>Other effects on capital</i>	<i>Actual 2015:Q4</i>	<i>2018:Q1</i>
AOCI included in capital (billions of dollars) ⁷		

¹ Average assets is the nine-quarter average of total assets.

² Pre-provision net revenue includes losses from operational-risk events, mortgage repurchase expenses, and other real estate owned (OREO) costs.

³ Other revenue includes one-time income and (expense) items not included in pre-provision net revenue.

⁴ Trading and counterparty losses include mark-to-market and credit valuation adjustments (CVA) losses and losses arising from the counterparty default scenario component applied to derivatives, securities lending, and repurchase agreement activities.

⁵ Other losses/gains includes projected change in fair value of loans held for sale and loans held for investment measured under the fair-value option, and goodwill impairment losses.

⁶ Other comprehensive income is only calculated for advanced approaches BHCs, and other BHCs that opt into advanced approaches treatment for AOCI.

⁷ Certain aspects of AOCI are subject to transition arrangements for inclusion in projected regulatory capital. The transition arrangements are 40 percent included in projected regulatory capital for 2015, 60 percent included in projected regulatory capital for 2016, 80 percent included in projected regulatory capital for 2017, and 100 percent included in projected regulatory capital for 2018.

Table C.4. BHC XYZ, Inc.

Projected stressed capital ratios, risk-weighted assets, losses, revenues, net income before taxes, and loan losses

Federal Reserve estimates: Adverse scenario

Capital ratios, actual 2015:Q4 and projected 2016:Q1–2018:Q1			
Percent			
Regulatory ratio	Actual 2015:Q4	Projected stressed capital ratios ¹	
		Ending	Minimum
Common equity tier 1 capital ratio			
Tier 1 risk-based capital ratio			
Total risk-based capital ratio			
Tier 1 leverage ratio			

¹ The capital ratios are calculated using capital action assumptions provided within the Dodd-Frank Act stress testing rule. These projections represent hypothetical estimates that involve an economic outcome that is more adverse than expected. These estimates are not forecasts of expected losses, revenues, net income before taxes, or capital ratios. The minimum capital ratio presented is for the period 2016:Q1 to 2018:Q1.

Projected loan losses, by type of loan, 2016:Q1–2018:Q1		
Loan type	Billions of dollars	Portfolio loss rates (percent) ¹
First-lien mortgages, domestic		
Junior liens and HELOCs, domestic		
Commercial and industrial ²		
Commercial real estate, domestic		
Credit cards		
Other consumer ³		
Other loans ⁴		
Total projected loan losses		

¹ Average loan balances used to calculate portfolio loss rates exclude loans held for sale and loans held for investment under the fair-value option, and are calculated over nine quarters.

² Commercial and industrial loans include small- and medium-enterprise loans and corporate cards.

³ Other consumer loans include student loans and automobile loans.

⁴ Other loans include international real estate loans.

Risk-weighted assets, actual 2015:Q4 and projected 2018:Q1			
Billions of dollars			
Item	Actual 2015:Q4	Projected 2018:Q1	
Risk-weighted assets ¹			

¹ Risk-weighted assets are calculated under the Basel III standardized capital risk-based approach.

Projected losses, revenue, and net income before taxes through 2018:Q1			
Item	Billions of dollars	Percent of average assets ¹	
Pre-provision net revenue ²			
Other revenue ³			
<i>less</i>			
Provisions			
Realized losses/gains on securities (AFS/HTM)			
Trading and counterparty losses ⁴			
Other losses/gains ⁵			
<i>equals</i>			
Net income before taxes			
Memo items			
Other comprehensive income ⁶			
<i>Other effects on capital</i>	<i>Actual 2015:Q4</i>	<i>2018:Q1</i>	
AOCI included in capital (billions of dollars) ⁷			

¹ Average assets is the nine-quarter average of total assets.

² Pre-provision net revenue includes losses from operational-risk events, mortgage repurchase expenses, and other real estate owned (OREO) costs.

³ Other revenue includes one-time income and (expense) items not included in pre-provision net revenue.

⁴ Trading and counterparty losses include mark-to-market and credit valuation adjustments (CVA) losses and losses arising from the counterparty default scenario component applied to derivatives, securities lending, and repurchase agreement activities.

⁵ Other losses/gains includes projected change in fair value of loans held for sale and loans held for investment measured under the fair-value option, and goodwill impairment losses.

⁶ Other comprehensive income is only calculated for advanced approaches BHCs, and other BHCs that opt into advanced approaches treatment for AOCI.

⁷ Certain aspects of AOCI are subject to transition arrangements for inclusion in projected regulatory capital. The transition arrangements are 40 percent included in projected regulatory capital for 2015, 60 percent included in projected regulatory capital for 2016, 80 percent included in projected regulatory capital for 2017, and 100 percent included in projected regulatory capital for 2018.

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